#### Expert Schedule

					1 2	3 4	5	6	7 8	9	10	11 1	2 1	3 14	15	16	17 18	19	20	21 2	2 23	24	25 2	6 27	28	29	30 31	1 32	32	33	33 34			Man Mor	nth (M/M	1)		. <del>e</del> .
	Position	Name	Company	Grade		Phase 1														Phase	2											Phy	ise 1	Phe	ise 2	Т	otal	Nos of Trip
	rosition	ivane	Company	ç			Year 20			-					Year										ar 2021	-				-	2022						1	Nos o
					4 5	6 7	8	9 1	0 11	12	1	2 3	3 4	4 5	6	7	8 9	10	11	12 1	1 2	3	4 5	56	7	8	9 10	0 11	12	1	2 3	Field	Home	Field	Home	Field	Home	
	Chief Advisor/Power System (1)	Ryosuke OGAWA	Nippon Koei Co., Ltd.	2		30		3	0		24						30	]			24					2	24			15		1.00		4.90		5.90		7
	Subchief Advisor/Power System (2)	Masaaki EBINA	Nippon Koei Co., Ltd.	3	24	24	, 🗖				-	24			30						4	24					24					1.60		4.20		5.80		7
	Renewable Energy	Yuka NAKAGAWA	Nippon Koei Co., Ltd.	3	24			2	4	-	24	-					30			24	4	24				2	24					0.80		5.00		5.80		7
Field	Energy Efficiency	Yasuhiro SAKAMOTO	PADECO Co., Ltd.	3		24		2	4			24	-		24						4					24	<b>—</b> 15			15		0.80		5.00		5.80		8
F	Grid Stabilization	Hiroshi SUZUKI	Nippon Koei Co., Ltd.	4		24	, 💻					_	-				30					24					24					0.80		3.40		4.20		5
	Diesel / Gas-turbine Power Plant / Coordinator	Ryota NISHINO	Nippon Koei Co., Ltd.	5	24	24		2	4	-					24						24						24					1.60		3.20		4.80		6
	Human Resource Development / Monitoring	Takahiro TANABE	PADECO Co., Ltd.	4		22			12			12	]				10				10									9		0.73	/	2.10	/	2.83		7
							1	1											_								Fi	eld A	ssignr	ment	t (Total)	7.33	1	27.80	1	35.13	1	<u> </u>
	Chief Advisor/Power System (1)	Ryosuke OGAWA	Nippon Koei Co., Ltd.	2		<sub>و</sub> [			5		۵	6									] 6		10	, E		3		3	0	3	0		0.45		1.85		2.30	
	Subchief Advisor/Power System (2)	Masaaki EBINA	Nippon Koei Co., Ltd.	3	6			Þ	5		۵	6									] 6		10			3		3	0	3	0		0.45		1.85		2.30	
	Renewable Energy	Yuka NAKAGAWA	Nippon Koei Co., Ltd.	3		 		Þ	5		٥	6								E			10			3		3	0	2	1		0.45		1.80		2.25	
Home	Energy Efficiency	Yasuhiro SAKAMOTO	PADECO Co., Ltd.	3				Þ	5		Г	6									] 6		10	r.		3		3	0	3	0		0.45		1.85		2.30	
H	Grid Stabilization	Hiroshi SUZUKI	Nippon Koei Co., Ltd.	4	6	3			3		۵	6									] 6		10	,		3		3	٥	3	0		0.45		1.70		2.15	
	Diesel / Gas-turbine Power Plant / Coordinator	Ryota NISHINO	Nippon Koei Co., Ltd.	5	3			E E	;		۵	6								0	]3		10	, E		3		2	0	2	0	/	0.15		1.45	1/	1.60	
	Human Resource Development / Monitoring	Takahiro TANABE	PADECO Co., Ltd.	4	2			] 3	3		٥									٥	2		2	11		2	Uo	1	0	1	] t (Total)		0.10		0.70		0.80	
			g Committee (JCC)	/					∠∞ [,	ICC(1)		Z	Ex	cplanatio Guyana(	n in 1)			JCC(	2)				JCC(3	)			110	ΛE	xplanation Guyana(2	n in		CC(4)	2.50		11.20		13.70	
		· · · · ·	ring Sheet							itoring 5	Sheet			▲ M	onitorin heet (2)				Moni She	itoring et (3)	]		Mo	onitoring (4)	g Sheet				itoring Sl									
		Submission	n of Report		<b>A</b> Incep	otion Report	]		(Fir	ork Pla	an sion)	A Pro	ogress I (1)	Report					Progr	ress Repo (2)	ort					[	Draft I Completio		ort	Pi	roject Comp	letion	/		/	/		Ì
		Training	g in Japan					1																		Tra	aining in Japan				Report							
					1 2	3 4	5	6	7 8	9	10	11 1	2 1	3 14	15	16	17 18	19	20	21 2	2 23	24	25 2	6 27	28	29	30 31	1 32	32	33	34 35	/		$\vee$		$\vee$		1
	Total M/M of both F	Field and Home Assignm	nent	Ī																									T			7.33		27.80	11.20	-	13.70	1
																																9.	83	39	.00	48	.83	j

Legend:

Field: Home:

#### Resource planning

Project Name: TECHNICAL COOPERATION TO PROMOTE ENERGY EFFICIENCY IN CARIBBEAN COUNTRIES

|   |  | 1  | <del></del>  
  | Number of Trip (Fiscal year)          | Ĩ   |  |   | 2019  |   
   
   |  | 2020   
   
  |  |  |  | 2021  |   |  |  
   | 2022  
   |  |  |  |  
  | 2023  |  |                    | Sum of Sum of  |
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---|---|--|--------------------|--|
| H                                       | Position   | Name Gra   | 201<br>201   
  | 9 2020 2021 2022                      | Total 4   | 5  | 6   | 7 8   | 9 10 11 1   
   
   | 2 1 2 3 4  | 5 6 7 8 9  
   
  | 0 10 11 12   | 1 2 3  | 4 5  | 6 7 8   | 891   | 0 11 12  | 1 2 3 4  
   | 5 6 7 8   
   | 9 10 11  | 12   | 1 2  | 3 4  
  | 5 6   | 7  | 89                 |  |
|   | Team Leader / Power System(1) /<br>Diesel/Gas-turbine Power Plant(2)   | Ryosuke OGAWA 2  | Plan   
  |                                       | 0   |  |   |   |   
   
   |  |  
   
  |  |  |  |   |   |  |  
   |   
   |  |  |  |  
  |   |  |                    | 0 0.00   |
|   |  | Predecessor  | Actual   
  | 0 0 0 0                               | 0   |  |   |   |   
   
   |  |  
   
  |  |  |  |   |   |  |  
   |   
   |  |  |  |  
  |   |  |                    | 0 0.00   |
|   | Team Leader / Power System(1) /<br>Diesel/Gas-turbine Power Plant(2)   | Tomoyasu FUKUCHI 2   | Plan   
  | 1/1/                                  | 2   |  |   |   |   
   
   |  |  
   
  |  |  |  |   |   |  |  
   |   
   |  |  | 18) (3)  | (7) (1)  
  |   |  |                    | 29 0.97  |
|   |  | Successor  | Actual   
  | 0 0 0 2                               | 2   |  |   |   |   
   
   |  |  
   
  |  |  |  |   |   |  |  
   |   
   |  | 1/14-2/3   | <i>·</i>   | 3/25   
  | 5-4/1   |  |                    | 29 0.97  |
| 1 -                                     | <u></u>  |  | -  
  |                                       |   |  |   |   |   
   
   |  |  
   
  |  |  |  |   |   |  |  
   |   
   |  | (1   | 18) (3)  | (7) (1)  
  | +   |  |                    |  |
|   | Sub Team Leader / Power System (2)   | Masaaki EBINA 3  | Plan   
  |                                       | 3   | (24)   | 5/11-6/3  | (22)  | (23)<br>8/18-9/8 10/20-11/1   
   
   | 1  |  
   
  |  |  |  |   |   |  |  
   |   
   |  |  |  |  
  |   |  |                    |  |
|   |  |  | Actual   
  | 3 0 0 0                               | 3   | (21)   | (3)   | (14)  | 8/18-9/8 10/20-11/11<br>(8) (12) (11)   
   
   |  |  
   
  |  |  |  |   |   |  |  
   |   
   |  |  |  |  
  |   |  |                    | 69 2.30  |
|   | Renewable Energy   | Yuka NAKAGAWA 3  | Plan   
  |                                       | 7   | (24)   |   |   | (23)  
   
   |  |  
   
  |  |  |  |   |   |  |  
   | (9) (3)   
   | (2) (19) (9)   | (13) (1  | 18) (3)  | (7) (1)  
  |   |  |                    | 131 4.37   |
|   |  |  | Actual   
  | 2 0 0 5                               | 7   | (21)   | 5/11-6/3<br>(3)   |   | 10/20-11/1<br>(12) (11)   
   
   | 11   |  
   
  |  |  |  |   |   |  |  
   | 7/23-31 8/9-1   
   | (2) (19) (9)<br>11 9/29-10/19 11/22-<br>(2) (19) (9)   | (13)   | 18) (3)<br>1/14-2/3<br>18) (3)   | 3/25-4/1   
  |   |  |                    | 131 4.37   |
|   | Energy Efficiency  | Yasuhiro SAKAMOTO 3  | Pian   
  |                                       | 7   | (21)   | -/  |   |   
   
   |  |  
   
  |  |  |  |   |   |  |  
   | (9) (3)   
   |  |  |  |  
  |   |  |                    | 148 4.93   |
| -                                       | 57 7   |  | - K  
  | 3 0 0 4                               | 7   | -  | (-  | 24)   | (23)  
   
   | (24)<br>1 2/15-3/9<br>(15) (0)   |  
   
  |  |  |  |   |   |  |  
   |   
   | (17) (25)<br>9/3-19 1  | 1/4-28   | 23) (3)<br>1/9-2/3   | (7) (2)<br>3/25<br>(7) (2)   
  | -4/2  | _  |                    |  |
|   |  |  | Actual   
  | 3 0 0 4                               | <u> </u>  |  | (2  | 24)   | (12) (11)   
   
   | (15) (9)   |  
   
  |  |  |  |   |   |  |  
   |   
   | (17) (25)  | (2   | 23) (3)  | (7) (2)  
  |   |  |                    | 148 4.93   |
|   | Grid Stabilization   | Hiroshi SUZUKI 4   | Plan   
  |                                       | 1   |  |   | (22)  |   
   
   |  |  
   
  |  |  |  |   |   |  |  
   |   
   |  |  |  |  
  |   |  |                    | 22 0.73  |
| _                                       |  |  | Actual   
  | 1 0 0 0                               | 1   |  | 8   | 8/18-9/8 <b></b><br>(14)                            | (8)   
   
   |  |  
   
  |  |  |  |   |   |  |  
   |   
   |  |  |  |  
  |   |  |                    | 22 0.73  |
| i i                                     | Grid Stabilization   | Hisao TAOKA 4  | Plan   
  | 1/1/                                  | 4   |  |   |   |   
   
   |  |  
   
  |  |  |  |   |   |  |  
   |   
   | (2) (19) (9)   | (12) (1  | 19) (2)  |  
  |   |  |                    | 76 2.53  |
| е<br>                                   |  |  | Actual   
  | 0 0 0 4                               | 4   |  |   |   |   
   
   |  |  
   
  |  |  |  |   |   |  |  
   | 7/23-31 8/9-1   
   | (2) (19) (9)<br>1 9/29-10/19 11/22-<br>(2) (19) (9)  | 12/13 1/   | 18) (3)<br>14-2/3  | | |
  |   |  |                    | 76 2.53  |
| d –                                     |  | Durite NICLING   |  
  |                                       |   |  |   |   |   
   
   |  |  
   
  |  |  |  |   |   |  |  
   | (9) (3)   
   | (2) (19) (9)   | (13) (1  | 18) (3)  |  
  | +   |  |                    |  |
| ╞                                       | Diesel / Gas-turbine Power Plant / Coordination  | Ryota NISHINO 5  | rian   
  | + $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ |   | (24)   | 5/11-6/R  | (22)  |   
   
   |  |  
   
  | + + + +  |  |  |   | + +   | + + +  |  
   | + $+$ $+$ $+$   
   | + $+$ $+$ $+$  |  |  |  
  | ++-   |  |                    | 46 1.53  |
|   |  |  | Actual   
  | 2 0 0 0                               | 2   | (21)   | (3)   | 8/18-9/8<br>(14)                                    | (8)   
   
   |  |  
   
  |  |  |  |   |   |  |  
   |   
   |  |  |  |  
  |   |  |                    | 46 1.53  |
|   | Human Resource Development / Monitoring  | Takahiro TANABE 4  | Plan   
  |                                       | 1   |  | (2  | 24)   |   
   
   |  |  
   
  |  |  |  |   |   |  |  
   |   
   |  |  |  |  
  |   |  |                    | 24 0.80  |
|   |  | Predecessor  | Actual   
  | 1 0 0 0                               | 1   |  | 7/6-7/29  | 24)   |   
   
   |  |  
   
  |  |  |  |   |   |  |  
   |   
   |  |  |  |  
  |   |  |                    | 24 0.80  |
|   | Human Resource Development / Monitoring  | Anna MIYAURA 4   | Plan   
  | 1///                                  | 3   | 1  | (2  | - 11  |   
   
   |  |  
   
  |  |  |  |   |   |  |  
   |   
   | (17)   |  | -  |  
  | ++  |  |                    | 53 1.77  |
| -                                       |  |  | + K  
  | 1 0 0 2                               |   | -  |   | +   | (20)<br>10/22-11/10   
   
   |  |  
   
  |  |  |  |   | +   |  |  
   |   
   | (17)<br>11/12-2<br>(17)  | (1<br>8 1/1  | 16)<br>14-29<br>16)  |  
  | ++-   |  |                    | 53 1.77  |
|   | Grid Stabilization (2) / Power Storage System /  | Successor  | Actual   
  |                                       |   |  | $\left  \right $  |   | (10) (10)   
   
   |  |  
   
  |  |  |  |   | + +   | + + +  |  
   | + + + +   
   | (17)   | (  | 16)  |  
  | ++  |  |                    |  |
|   | Asset Management / Coordination (2)  | Hiroaki NIIMI 4  | Plan   
  |                                       | 2   |  |   |   | (23)  
   
   | (19)   |  
   
  |  |  |  |   |   |  |  
   |   
   |  |  |  |  
  |   |  |                    | 42 1.40  |
|   |  | Adiitional Expert,<br>Predecessor  | Actual   
  | 2 0 0 0                               | 2   |  |   |   | 10/20-11/11<br>(12) (11)  
   
   | 2/15-3/4<br>(15) (4)   |  
   
  |  |  |  |   |   |  |  
   |   
   |  |  |  |  
  |   |  |                    | 42 1.40  |
|   | Grid Stabilization (2) / Power Storage System /<br>Asset Management / Coordination (2)   | Tomoaki TSUJI 5  | Plan   
  |                                       | 4   |  |   |   |   
   
   |  |  
   
  |  |  |  |   |   |  |  
   |   
   | (17) (27)  | (9) (3   | 23) (3)  | (7) (2)  
  |   |  |                    | 88 2.93  |
|   |  | Adiitional Expert,   | Actual   
  | 0 0 0 4                               | 4   |  |   |   |   
   
   |  |  
   
  |  |  |  |   |   |  |  
   |   
   | 9/3-19 11/4-12<br>(17) (27)  | 2/9 1  | 23) (3)<br>/9-2/3<br>23) (3)   | 3/25-4/2   
  |   |  |                    | 88 2.93  |
|   |  | Successor  | Total  
  | 5 0 0 21                              | 36  |  |   |   |   
   
   |  |  
   
  |  |  |  |   |   |  |  
   |   
   | (17) (27)  | (9) (4   | 23) (3)  | (7) (2)  
  |   |  | subtotal of        | Plan 728 24.26   |
|   |  |  | rotai  
  | 0 0 21                                | 50  |  |   |   |   
   
   |  |  
   
  |  |  |  |   |   |  |  
   |   
   |  |  |  | | |
  |   |  | Field              |  |
|   |  |  |  
  |                                       |   |  |   |   |   
   
   |  |  
   
  |  |  |  |   |   |  |  
   |   
   |  |  |  |  
  |   |  | Activities         | Actual 728 24.26   |
|   | Terrer Lander / Device Suchers (4) /   |  | <u> </u>   
  |                                       | -   |  |   |   |   
   
   |  | 7/8, 8/18,24,31,<br>0/2,3,7,8,10,11,18,  
   
  | 28, 1/0/8  |  |  |   |   |  |  
   |   
   |  |  |  | _  
  | <del></del>   |  |                    |  |
|   | Team Leader / Power System(1) /<br>Diesel/Gas-turbine Power Plant(2)   | Ryosuke OGAWA 2  | Plan   
  |                                       |   |  |   |   | (15) 12/9-13,16-1   
   
   |  | 9,12,3,7,8,10,11,18,<br>9,12,13,15,16,11/1<br>(10) 20,24-27,12/7,14  
   
  | (12)   | (18)   |  | 5/21,31, 6/   | 30,7/20, 8/16, 1  | 1/17,18, 12/15 (6  | <b>a</b>   
   | 5/2 11 13 (10) (3) (3)  
   | (3)  |  |  |  
  |   |  |                    | 97.0 4.85  |
|   | Team Leader / Power System(1) /<br>Diesel/Gas-turbine Power Plant(2)   | Ryosuke OGAWA 2<br>Predecessor   | Pian   
  |                                       |   |  |   |   | (15) 12/9-13, 16-1<br>10/9, 15  
   
   | 8 (8) 2/10,12,14,17<br>1/14-17,20-24 3/5,17<br>1/14-17,20-24 (2)                   | 0/2,3,7,8,10,11,18,<br>9,12,13,15,16 11/1<br>(10) 20,24-27, 12/7 14  
   
  | 28, 10/8<br>0, 11, 16, 18<br>(12)<br>) (8) (10) (2)  | (18)   | (2)  | 5/21,31, 6/   | 30,7/20, 8/16, 1  | 1/17,18, 12/15 ((  | )<br>/17, 2/4, 3/1,2,31, 4/1,7<br>(1) (1) (3) (2)  
   | 5/2,11,13,6/1,6,9,14, 1/4,5,<br>16-18,■ 20,27, 1/4,5,<br>23,24(8) 20,27, 1/3,25,<br>23,24(8) 20,20,6(7,2,8)   
   | (3)<br>9/12,15,28<br>(3)   |  |  |  
  | $\overline{++}$   |  |                    | 97.0 4.85<br>97.0 4.85   |
|   | Diesel/Gas-turbine Power Plant(2)<br>Team Leader / Power System(1) /   |  | Pian<br>Actual<br>Pian   
  |                                       |   |  |   |   | (15) 12/9-13, 16-1<br>10/9, 151<br>(2) (8   
   
   | 3/5.17   | 0/2,3,7,8,10,11,18,<br>9,12,13,15,16 11/1<br>(10) 20,24-27, 12/7 14  
   
  |  | (18)   | (2)  | 5/21,31, 6/   | 30,7/20, 8/16, 1<br>(1)   | · · · · ·  | 3)<br>/17, 2/4, 3/1,2,31, 4/1,7<br>(1) (1) (3) (2)   
   | 572 11, 13, 67, 6, 974, 474, 5<br>1648, <b>B</b><br>23 24 (8) (8) (8) (9) (4) (7, 13, 25, 13, 25, 13, 25, 13, 25, 13, 25, 13, 25, 13, 25, 13, 25, 13, 25, 13, 25, 13, 25, 13, 25, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13  
   | (3)  | 0.26   |  | 3/1,8-10, 4  
  |   |  |                    |  |
|   | Diesel/Gas-turbine Power Plant(2)  | Predecessor<br>Tomoyasu FUKUCHI 2  | Plan Actual Plan Actual  
  |                                       |   |  |   |   | (15) 12/9-13, 16-1<br>10/9, 15 1<br>(2) (8  
   
   | 3/5.17   | 0/2,3,7,8,10,11,18,<br>9,12,13,15,16 11/1<br>(10) 20,24-27, 12/7 14  
   
  |  | (18)   | (2)  | 5/21,31, 6/<br>(1) (1) (1)  | 30,7/20, 8/16, 1<br>(1)   | · · · · ·  | 3)<br>/17. 2/4, 3/1,2,31, 4/1,7<br>(1) (1) (3) (2)   
   | 572 11, 13, 67, 15, 97 14, 1745,<br>16/18, ■ 20, 27, 17, 13, 25, 12, 174, 1745,<br>23, 24 (8) (8) <sub>28, 20</sub> (6) 17, 28,   
   | (3)<br>9/12, 15, 28<br>(3)<br>12/1, 2, 5-  | 9,26   | 2/8-10 2<br>1/12,  | 20,22,23 2   
  | 24.28(2)  |  |                    | 97.0 4.85<br>29.0 1.45   |
|   | Diesel/Gas-turbine Power Plant(2)<br>Team Leader / Power System(1) /<br>Diesel/Gas-turbine Power Plant(2)  | Predecessor<br>Tomoyasu FUKUCHI 2<br>Successor   | Pian Actual Pian Actual  
  |                                       |   |  |   |   | (15) 12/9-13, 16-1<br>10/9, 15 <b>1</b><br>(2) (8   
   
   | 1/1 <b>-</b> 17, 20, 24<br>(9) 2(4) (2) (2)  | (10) 20:24-27.12/11<br>(10) 20:24-27.12/714<br>(11) (3) (8)<br>(1) (3) (8)   
   
  |  | (18)   | (2)  | 5/21,31, 6/<br>(1) (1)  | 30,7/20, 8/16, 1<br>(1)   | · · · · ·  | )<br>/17, 2/4, 3/1, 2, 31, 4/1, 7<br>(1) (1) (3) (2)   
   | 572 11, 13, (70) (3) (3)<br>16 18, (3)<br>23 24 (8) (8) 28 20 (7, 7)<br>(8) 28 20 (7, 7)<br>(8) 28 20 (7, 7)<br>(8) 28 20 (7) 7 28  
   | (3)  | (8) (  | 2/8-10 :<br>1/12,<br>2) <sup>13</sup> (3) (  | 20,22,23 <u>2</u><br>7) (7)  
  | 24-28 (2)<br>5/8,9<br>(2)   | .14  |                    | 97.0 4.85<br>29.0 1.45<br>29.0 1.45  |
|   | Diesel/Gas-turbine Power Plant(2)<br>Team Leader / Power System(1) /   | Predecessor<br>Tomoyasu FUKUCHI 2  | Pian<br>Actual<br>Pian<br>Actual<br>Pian   
  |                                       | (6)   | 5/7  | (3)   |   | 10/9, <b>f 5 i</b><br>(2) (8<br>(6)   
   
   | 1/14-17, 200-24<br>(9) 204-2(4)<br>(2) 2/25-28, 3/11, 1<br>(6) 4/7, 10, 17, 21, 27 | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)  
   
  |  | (18)   | (2)  | (1) (1) (1)<br>7/9,12,20, 5   | (1)<br>(1)<br>8/3,27,10/12,1  | (2) (1)<br>(2) (1)   | 3)   
   | 16-18. 1.20, 27. 1.13, 25, 23, 24 (8) (8) 29, 20 (6) 27, 28<br>(8) 29, 20 (6) 27, 28<br>(10) (3) (3)  
   | (3) 12/1,2,5-  | (8) (<br>1/.<br>9-   | 2/8-10<br>1/12,<br>2) <sup>13</sup><br>2-4,<br>13<br>(3)<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>3/1<br>2/15,<br>3/1<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>3/1<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15, | 20,22,23 2<br>7) (7)<br>20-<br>1, 27<br>-3,6-8,10  
  | 24-28 (2)<br>5/8,9<br>(2)<br>4/3-7,10-<br>(8)17-21,24-  | .14,   |                    | 97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90   |
|   | Diesel/Gas-turbine Power Plant(2)<br>Team Leader / Power System(1) /<br>Diesel/Gas-turbine Power Plant(2)  | Predecessor<br>Tomoyasu FUKUCHI 2<br>Successor   | Pian       Actual       Pian       Actual       Pian       Pian       Actual   
  |                                       | (6)<br>(5)  | 5/7<br>(1)   | (3)<br>6/5-7<br>(3)   |   | (15) 12/9-13, 16-7<br>10/9, 13] ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓   
   
   | 1/14-17, 200-24<br>(9) 204-2(4)<br>(2) 2/25-28, 3/11, 1<br>(6) 4/7, 10, 17, 21, 27 | (10) 20:24-27.12/11<br>(10) 20:24-27.12/714<br>(11) (3) (8)<br>(1) (3) (8)   
   
  |  | (18)   | (2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)   |   |   |  | ))<br>(1)<br>(1)<br>(1)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(1)<br>(2)<br>(3)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4  
   | 16-18. 1.20, 27. 1.13, 25, 23, 24 (8) (8) 29, 20 (6) 27, 28<br>(8) 29, 20 (6) 27, 28<br>(10) (3) (3)  
   | (3)<br>12/1,2,5-<br>(3)<br>(3)<br>10/29,31 1/1/1,<br>(2) (2) 9   | (8) (<br>1/.<br>9-   | 2/8-10<br>1/12,<br>$2)^{13}$ (3) (1<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>3/1<br>3/1<br>(3)<br>3/1   | 20,22,23 2<br>7) (7)<br>20-<br>1, 27<br>-3,6-8,10<br>(20)  
  | 24-28 (2)<br>■ 5/8,9<br>(2)<br>■ 4/3-7,10-<br>(8)17-21,24-<br>■ 5/1-4<br>(4)  | -28  |                    | 97.0 4.85<br>29.0 1.45<br>29.0 1.45  |
|   | Diesel/Gas-turbine Power Plant(2)<br>Team Leader / Power System(1) /<br>Diesel/Gas-turbine Power Plant(2)  | Predecessor<br>Tomoyasu FUKUCHI 2<br>Successor   | Plan       Plan       Actual       Plan       Actual       Plan       Actual       Plan       Plan       Plan       Plan   
  |                                       | (5)<br>(6)  | (1)<br>) 5/9,10  | (3)   |   | 10/9, <b>15</b><br>(2) (8<br>(6)<br>(6)<br>(6)<br>(72, 13<br>(6)  
   
   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                              | 0/23,7,8,16,17,8,<br>9,27,21,35,16,17,17,<br>10,20,24,27,12,71,14           1         1           1         1           1         1           1         1           1         1           17, [10]         1           10         15,19           18         6/15,19           10         16/15,19           10         10   
   
  | (12)<br>(8) (10) (2)<br>(8) (10) (2)<br>(4) (2)<br>(4) (2)<br>(4) (2)<br>(4) (2)<br>(2)<br>(4) (2)<br>(2)<br>(2)<br>(4) (2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3) (2)<br>(4) (2)<br>(2)<br>(2)<br>(2)<br>(3) (2)<br>(4) (2)<br>(2)<br>(2)<br>(2)<br>(3) (2)<br>(4) (2)<br>(2)<br>(2)<br>(2)<br>(3) (2)<br>(3) (2)<br>(4) (2)<br>(2)<br>(2)<br>(3) (2)<br>(4) (2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)   | (14)   | (2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)<br>(4)<br>(4)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5 | (1)         (1)           (1)         (1)           7/9,12,20, i         (1)           (3)         (2)           '1,11,\$0         7/12,20  | 8/3,27, 10/12, 1<br>2) (1)<br>8/4,1, 25   | (2) (1)<br>(2) (1)   | 3)   
   | (10) (3) (10) (3) (10) (3) (10) (3) (10) (3) (10) (3) (10) (3) (10) (3) (10) (3) (10) (3) (10) (3) (10) (3) (10) (3) (10) (3) (10) (3) (10) (3) (10) (3) (10) (10) (10) (10) (10) (10) (10) (10   
   | (3)<br>12/1,2,5<br>(3)<br>10/29,31 11/1/1<br>(2) (2) 9<br>10/20,11/1,<br>10/20,24,24,(3)   | (8) (<br>1/.<br>9-   | 2/8-10<br>1/12,<br>(2) <sup>13</sup> (3) (<br>2/5,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>(3) 3,<br>(1) (2) 2/15,<br>(3) 3,<br>(1) (2) 2/15,<br>(3) 3,<br>(1) (2) 2/15,<br>(3) (1) (2) 2/15,<br>(3) (2) (2) 2/15,<br>(3) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2   | 20,22,23 2<br>7) (7)<br>20-<br>5,27<br>-3,6-8,10<br>7) (20)<br>7,20-24,27,25<br>(1,2,6,0)  
  | 24 28 (2)<br>5/8,9<br>(2)<br>4/3-7,10-<br>(8)17-21,24-<br>5/1-4<br>(4)<br>8<br>(4)<br>8<br>(4)3-7,1   | -28  |                    | 97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90   |
|   | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2)   | Predecessor<br>Tomoyasu FUKUCHI 2<br>Successor<br>Masaaki EBINA 3  | Plan       Actual       Plan       Actual       Plan       Actual       Plan       Plan       Actual   
  |                                       | (5)   | (1)<br>) 5/9,10  | (3)   | 8/6,27  | 10/9, <b>15</b><br>(2) (8<br>(6)<br>(6)<br>(6)<br>(72, 13 (6)   
   
   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                              | 0/23,7,6,10,14,8           9,22,7,23,15,16 ±17,14           10,22,23,15,16 ±17,14           11,00,00,00,00,00,00,00,00,00,00,00,00,0   
   
  | (12)<br>(8) (10) (2)<br>(8) (10) (2)<br>(4)<br>12/7, 14]<br>(2)  | (14)   | (2)<br>(2)<br>(1)<br>(2)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2   | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   | 8/3,27, 10/12, 1<br>2) (1)<br>8/4,1, 25   | (2) (1)<br>1/22,25 ((<br>(2) (3)   | 3)   
   | 16-18. 1.20, 27. 1.13, 25, 23, 24 (8) (8) 29, 20 (6) 27, 28<br>(8) 29, 20 (6) 27, 28<br>(10) (3) (3)  
   | (3)<br>12/1,2,5<br>(3)<br>10/29,31 (1/1/<br>(2) (2) 9<br>10/20,11/<br>10/20,31 (1/1/<br>10/20,31 (1/1/))<br>10/20,31   | (8) (<br>1/.<br>9-   | 2/8-10<br>1/12,<br>(2) <sup>13</sup> (3) (<br>2/5,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>2/15,<br>(3) 3,<br>(1) (2) 2/15,<br>(3) 3,<br>(1) (2) 2/15,<br>(3) 3,<br>(1) (2) 2/15,<br>(3) (1) (2) 2/15,<br>(3) (2) (2) 2/15,<br>(3) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2   | 20,22,23 2<br>7) (7)<br>20-<br>5,27<br>-3,6-8,10<br>7) (20)<br>7,20-24,27,25<br>(1,2,6,0)   | 24 28 (2)<br>5/8,9<br>(2)<br>4/3-7,10-<br>(8)17-21,24-<br>5/1-4<br>(4)<br>8<br>(4)<br>8<br>(4)3-7,1  
  | 10, 14, 15<br>24-26, 29  |                    | 97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95   |
|   | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2)   | Predecessor<br>Tomoyasu FUKUCHI 2<br>Successor<br>Masaaki EBINA 3  | Plan       Plan       Actual       Plan       Actual       Plan       Actual       Plan       Plan       Plan       Actual       Plan       Actual       Plan       Plan       Plan       Plan   
  |                                       | (5)<br>(6)<br>4/5,9,1 <sup>1</sup> ,24(4)   | (1)<br>) 5/9,10<br>) (2)   | (3)<br>(3)  | 8/6,27  | 10/9, <b>15</b><br>(2) (8<br>(6)<br>(6)<br>(6)<br>(72, 13<br>(6)  
   
   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                              | 0/3.7,6/10,1/48           9,24,27,14,56           10,02,427,127,14           11,02,427,127,14           11,02,427,127,14           11,03           11,03           12,03           11,03           11,04           11,03 <t< td=""><td>(12)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(4)<br/>(2)<br/>(2)<br/>(4)<br/>(2)<br/>(2)<br/>(4)<br/>(2)<br/>(2)<br/>(2)<br/>(4)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2</td><td>(14)<br/>/8,9,1 1 2/15,22<br/>(2)</td><td>(2)<br/>\$/30,31<br/>(1) (2)<br/>5/21,26 10<br/>(2)</td><td>(1)         (1)         (1)           (1)         (1)         (1)           (1)         (1)         (1)           (1)         (1)         (1)           (1)         (1)         (1)           (1)         (1)         (1)           (1)         (1)         (1)           (3)         (2)         (1)           (3)         (2)         (2)</td><td>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)</td><td>(2) (1)<br/>1/22.25 ((<br/>(2) (2) (2)<br/>1/22.10 (1)<br/>(1) (1) (1)</td><td>(1) (1) (1) (2) (2)<br/>(1) (1/27, 28, 30, 2/1, 3)<br/>(1) (2)<br/>(1) (2)<br/>(1) (2)<br/>(1) (2)<br/>(2) (2)<br/>(1) (3) (2)<br/>(2) (3) (2)<br/>(3) (2) (3) (2)<br/>(4) (3) (2) (3) (2)<br/>(5) (3) (2) (3) (2)<br/>(6) (3) (2) (3) (2) (3) (2)<br/>(7) (3) (2) (3) (2) (3) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3</td><td>16:18. (3) 27. (13, 25, 23, 24, 24, 26) (13, 26, 23, 24, 26) (13, 26, 23, 26, 26) (14, 27, 28, 26) (15, 27, 28, 26) (15, 27, 28, 26) (15, 27, 28, 26) (15, 27, 28, 26) (15, 27, 28, 26) (15, 27, 28, 26) (15, 27, 28, 26) (15, 27, 28, 26) (15, 27, 28, 26) (15, 27, 28, 26) (15, 27, 28, 26) (15, 27, 28, 28) (15, 27,
28, 28) (15, 27, 28, 28) (15, 27, 28, 28) (15, 27, 28, 28) (15, 27, 28, 28) (15, 27, 28, 28) (15, 27, 28, 28) (15, 27, 28, 28) (15, 27, 28, 28) (15, 27, 28, 28) (15, 27, 28, 28) (15, 27, 28, 28) (15, 27, 28, 28) (15, 27, 28, 28) (15, 27, 28, 28) (15, 27, 28, 28) (15, 27, 28, 28) (15, 27, 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((<br/>17.<br/>9-<br/>12/14-17,<br/>19.20, 1/<br/>22-24 11<br/>(9) (<br/>12/15,</td><td>2/8-10<br/>1/12<br/>2)<sup>13</sup> (3) (<br/>2)<sup>13</sup> (3) (<br/>2/15, -<br/>2/2, -<br/>13 (3) -<br/>2/15, -<br/>2/2, -<br/>2, 24<br/>13 (3) -<br/>3, 14<br/>(6) (<br/>2/6-10, 16, 17<br/>10, -<br/>(2) 3<br/>(3) (14) (<br/>3) (14) (<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-<br/>-</td><td>20,22,23 2<br/>7) (7)<br/>20-<br/>,27<br/>-3,6-8,10<br/>7) (20)<br/>7,20-24,27,2i<br/>(1-3,6-9,<br/>3-15,20-24<br/>(15) (17)<br/>3,6,8,9 (13,1)</td><td>24-28 (2)<br/>578,9<br/>(2)<br/>4/3-7,10-<br/>(8)17-21,24-<br/>5/1-4<br/>(4)<br/>5/1-4<br/>(4)<br/>5/1-4<br/>(4)<br/>5/1-4<br/>(4)<br/>5/1-4<br/>(4)<br/>5/1-4<br/>(4)<br/>5/1-5<br/>(4),3-7,10-<br/>(4)<br/>5/1-4<br/>(4)<br/>5/1-5<br/>(4),3-7,10-<br/>(4)<br/>5/1-4<br/>(4)<br/>5/1-5<br/>(4),3-7,10-<br/>(5),10-<br/>(4),10-<br/>(4),10-<br/>(5),10-<br/>(4),10-<br/>(4),10-<br/>(4),10-<br/>(5),10-<br/>(4),10-<br/>(5),10-<br/>(4),10-<br/>(5),10-<br/>(4),10-<br/>(5),10-<br/>(4),10-<br/>(5),10-<br/>(5),10-<br/>(6),10-<br/>(7),10-<br/>(6),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),10-<br/>(7),1</td><td>10, 14, 15<br/>24, 26, 29<br/>8-12,<br/>-14,</td><td></td><td>97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28</td></t<>  
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   | (3)<br>12/1,2,5<br>(3)<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10   | (8) ((<br>17.<br>9-<br>12/14-17,<br>19.20, 1/<br>22-24 11<br>(9) (<br>12/15,   | 2/8-10<br>1/12<br>2) <sup>13</sup> (3) (<br>2) <sup>13</sup> (3) (<br>2/15, -<br>2/2, -<br>13 (3) -<br>2/15, -<br>2/2, -<br>2, 24<br>13 (3) -<br>3, 14<br>(6) (<br>2/6-10, 16, 17<br>10, -<br>(2) 3<br>(3) (14) (<br>3) (14) (<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-  | 20,22,23 2<br>7) (7)<br>20-<br>,27<br>-3,6-8,10<br>7) (20)<br>7,20-24,27,2i<br>(1-3,6-9,<br>3-15,20-24<br>(15) (17)<br>3,6,8,9 (13,1)  
  | 24-28 (2)<br>578,9<br>(2)<br>4/3-7,10-<br>(8)17-21,24-<br>5/1-4<br>(4)<br>5/1-4<br>(4)<br>5/1-4<br>(4)<br>5/1-4<br>(4)<br>5/1-4<br>(4)<br>5/1-4<br>(4)<br>5/1-5<br>(4),3-7,10-<br>(4)<br>5/1-4<br>(4)<br>5/1-5<br>(4),3-7,10-<br>(4)<br>5/1-4<br>(4)<br>5/1-5<br>(4),3-7,10-<br>(5),10-<br>(4),10-<br>(4),10-<br>(5),10-<br>(4),10-<br>(4),10-<br>(4),10-<br>(5),10-<br>(4),10-<br>(5),10-<br>(4),10-<br>(5),10-<br>(4),10-<br>(5),10-<br>(4),10-<br>(5),10-<br>(5),10-<br>(6),10-<br>(7),10-<br>(6),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),10-<br>(7),1  | 10, 14, 15<br>24, 26, 29<br>8-12,<br>-14,  |                    | 97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28  |
|   | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Renewable Energy  | Predecessor<br>Tomoyasu FUKUCHI 2<br>Successor<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3   | Actual<br>Pian<br>Actual<br>Pian<br>Actual<br>Pian<br>Pian<br>Actual   
  |                                       | (5)<br>(6)<br>4/5,9,1 24(4)<br>(6)  | (1)<br>5/9,10<br>(2)<br>5/10,11  | (3)<br>(3)<br>(3) 6/10, 11<br>(3) 7/3<br>6/18-2   | 8/6,27<br>1,20 (2)<br>30,31<br>20 <b>8</b> /5,6     | 10/9, 15]         (2)         (8)           (6)         10/8-11, 15-1         (6)           (712, 73         (6)         1           (2)         (2)         1           (10)         10/9, 15         1/2           (2)         (2)         (2)           (2)         (2)         (2)           (2)         (2)         (2)           (2)         (2)         (2)  
   
   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                              | 0         3,7,8,7,6,1,1,48,           9         1,2,3,15,16 § 1/1,47,           (10)         20,24,27,12,7,14           (1)         (3)           (1)         (3)           (1)         (3)           (1)         (3)           (1)         (3)           (1)         (1)           (1)         (1)           (2)         (1)           (1)         (1)           (2)         (1)           (10)         (10)           (18)         16715           (10)         11/2,6,8,11           (10)         11/2,6,8,11   
   
  | (12)<br>(8) (10) (2)<br>(4)<br>1277, 14]<br>(7)<br>112, 18 (8)<br>1099(1) (2)<br>112, 18 (8)<br>1099(1) (2)<br>112, 18 (8)<br>1099(1) (2)<br>112, 18 (8)<br>12, 12, 12, 12, 12, 12, 12, 12, 12, 12,  | (14)<br>78,9,1<br>(2)<br>(22)<br>1/20,28, 2/4,5,   | (2)<br>(2)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(1, 17, 23, 4)<br>(2)<br>(3)<br>(1, 17, 23, 4)  | (1)         (1)         (1)           (1)         (1)         (1)           (1)         (1)         (1)           (1)         (1)         (1)           (1)         (1)         (1)           (1)         (1)         (1)           (1)         (1)         (1)           (3)         (2)         (1)           (3)         (2)         (2) | (1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)  | (2) (1)<br>1/22,25 ((<br>(2) (3)   | (1) (1) (1) (2) (2)<br>(1) (1/27, 28, 30, 2/1, 3)<br>(1) (2)<br>(1) (2)<br>(1) (2)<br>(1) (2)<br>(2) (2)<br>(1) (3) (2)<br>(2) (3) (2)<br>(3) (2) (3) (2)<br>(4) (3) (2) (3) (2)<br>(5) (3) (2) (3) (2)<br>(6) (3) (2) (3) (2) (3) (2)<br>(7) (3) (2) (3) (2) (3) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3   
   | 1618.         0.27, 13, 25, 23, 24 (5)           2124 (5)         (8) 28, 30 (5)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)  
   | (3)<br>12/1,2,5<br>(3)<br>10/29,31<br>(2) (2) 9<br>1/0/20,1/1,<br>(2) (2) 9<br>1/0/20,1/1,<br>(2) (2) 9<br>1/0/20,1/1,<br>(2) (2) 9<br>1/0/20,1/1,<br>(3)<br>1/1/1,<br>(2) (2) 9<br>1/0/20,1/1,<br>(3)<br>1/0/20,31<br>(1/1,<br>(2) (2) 9<br>1/0/20,1/1,<br>(3)<br>1/0/20,31<br>(1/1,<br>(2) (2) 9<br>1/0/20,1/1,<br>(2) (2) 9<br>1/0/20,1/1,<br>(2) (2) 9<br>1/0/20,1/1,<br>(2) (2) 9<br>1/0/20,1/1,<br>(2) (2) 9<br>1/0/20,1/1,<br>(2) (2) (2) 9<br>1/0/20,1/1,<br>(2) (2) (2) 9<br>1/0/20,1/1,<br>(2) (2) (2) 9<br>1/0/20,1/1,<br>(2) (2) (2) 9<br>(3) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2   | (8) ((<br>17.<br>9-<br>12/14-17.<br>19.20, 1/<br>22-24 11<br>(9) (<br>12/15,<br>16,20,   | 2/8-10 :<br>1/12:<br>2/13 (3) (<br>2/15:<br>2/4:<br>2/2:<br>2/4:<br>2/2:<br>2/4:<br>2/6-10:<br>10:<br>(3) (<br>2/6-10:<br>10:<br>(3) (<br>2/6:<br>10:<br>10:<br>2/6:<br>10:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/15:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/17:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/17:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/17:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/17:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:<br>2/16:               | 20,22,23 2<br>7)
(7)<br>20-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2-<br>2,2- | 2428 (2)<br>578.9<br>(2)<br>4/3-7,10-<br>(8)17-21,24-<br>(4)<br>5/1-4<br>(4)<br>5/1-4<br>(6) 17-21,2<br>5/1-4<br>(7) 15-17<br>(1) 15-17<br>(2) 18-20,2<br>5,2,6,7   | -28<br>10, 14, 15<br>24-26, 29<br>8-12,<br>-14,<br>25-28   |                    | 97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           115.4         5.77   |
|   | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Renewable Energy Energy Efficiency  | Predecessor<br>Tomoyasu FUKUCHI 2<br>Successor<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yasuhiro SAKAMOTO 3   | Actual<br>Pian<br>Actual<br>Pian<br>Actual<br>Pian<br>Pian<br>Actual   
  |                                       | (5)<br>(6)<br>4/5,9,11 24(4)<br>(6)   | (1)<br>5/9,10<br>(2)<br>5/10,11  | (3)<br>(3)<br>(3) 6/10,11<br>1 (3) 7/3<br>6/18-2<br>(3)                                       | 8/6,27<br>(1,20 (2)<br>30,31<br>20 8/5,6<br>(2) (2) | 10/9, <b>15</b> ] (2) (8<br>(6) 10/8-11, 15-1<br>(6) 10/8-11, 15-1<br>(6) 10/8-15 1//<br>(2) (2) 10/9 15 1//<br>(2) (2) 10/15<br>(1) (1) 10/15 (1)  
   
   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                              | 0'3.7,6'.0',1/3           9,72,73,75,6' 1/73           9,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           11'1,1'',1'',1'',1'',1'',1'',1'',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''''',1''''',1''''',1'''',1''''',1''''',1'''',1'''',1''''''   
   
  | (12)<br>(8) (10) (2)<br>(4)<br>1277.141<br>1277.141<br>(4)<br>1277.141<br>(2)<br>11(2.18 (8)<br>10 91<br>1 (2)<br>11(2.18 (8)<br>10 91<br>1 (2)<br>11(2.18 (8)<br>10 91<br>1 (2)<br>1 ( | (14)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)   | (2)<br>(2)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)   | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   | (1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)  |  | (1) (1) (1) (2) (2)<br>(1) (1/27, 28, 30, 2/1, 3)<br>(1) (2)<br>(1) (2)<br>(1) (2)<br>(1) (2)<br>(2) (2)<br>(1) (3) (2)<br>(2) (3) (2)<br>(3) (2) (3) (2)<br>(4) (3) (2) (3) (2)<br>(5) (3) (2) (3) (2)<br>(6) (3) (2) (3) (2) (3) (2)<br>(7) (3) (2) (3) (2) (3) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3   | 16:18. (3) 27. (13, 25, 23, 24, 20, 27, 28, 30, 20, 27, 28, 30, 20, 27, 28, 30, 20, 27, 28, 30, 20, 20, 20, 20, 20, 20, 20, 20, 20, 2  
  |
(3)<br>12/1,2,5<br>(3)<br>10/29,31<br>10/29,31<br>(3)<br>10/29,31<br>10/29,31<br>(2)<br>10/20,11/1.<br>(2)<br>9,15<br>28,24,24,(3)<br>14-18<br>(4)<br>(5)<br>(8)<br>14-19<br>(8)<br>14-19<br>(8)<br>14-19<br>(8)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(9)<br>14-19<br>(8)<br>(8)<br>(8)<br>(8)<br>(8)<br>(8)<br>(8)<br>(8)  | (8) ((<br>17.<br>9-<br>12/14-17.<br>19.20, 1/<br>22-24 11<br>(9) (<br>12/15,<br>16,20,   | 2/8-10 :<br>1/12:<br>2/13 (3) (<br>2/4, 2/15; 3/1<br>2/4, 3/2; 2/4<br>13 (3) (2/2, 2/4<br>) (6) (<br>2/6-10, 16, 17<br>10, (2) 8<br>13<br>(14) (1<br>33<br>(14) (1<br>37<br>2/8-10, (3)<br>(3) (14) (1<br>37<br>(3) (14) (1<br>37<br>(3) (14) (1<br>37<br>(3) (14) (1<br>(3) (1) (1) (1) (1)<br>(3) (1) (1) (1) (1) (1)<br>(3) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1  | 20,22, 23 2<br>7) (7)<br>20-<br>3,6-8,10<br>7) (20)<br>,20-24,27,21<br>(1-3,6-9,<br>3-15,20-24<br>(15) (17)<br>3,6,8,9 13,11<br>21-23<br>(10) (12)  | 24-28 (2)<br>5 5/8,9<br>(2)<br>(2)<br>(3) 7-21,24-<br>(4)<br>(4)<br>(5)
17-21,24-<br>(4)<br>(6) 17-21,24-<br>(7) 18-17<br>(7) 18-20,2<br>(10) 15-17<br>(2) 18-20,2<br>(2,4)   | -28<br>10, 14, 15<br>24-26, 29<br>8-12,<br>-14,<br>25-28   |                    | 97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           144.6         7.23           115.4         5.77           115.4         5.77   |
|   | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Renewable Energy  | Predecessor<br>Tomoyasu FUKUCHI 2<br>Successor<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3   | Actual<br>Pian<br>Actual<br>Pian<br>Actual<br>Pian<br>Pian<br>Actual   
  |                                       | (5)<br>(6)<br>4/5,9,1 24(4)<br>(6)  | (1)<br>5/9,10<br>(2)<br>5/10,11<br>(2)<br>(2)<br>(2)   | (3)<br>(3)<br>(3) 6/10,11<br>1 (3) 7/3<br>6/18-2<br>(3)                                       | 8/6,27<br>(1,20 (2)<br>30,31<br>20 8/5,6<br>(2) (2) | 10/9, <b>15</b> ] (2) (8<br>(6) 10/8-11, 15-1<br>(6) 10/8-11, 15-1<br>(6) 10/8-15 1//<br>(2) (2) 10/9 15 1//<br>(2) (2) 10/15<br>(1) (1) 10/15 (1)  
   
   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                              | 0'3.7,6'.0',1/3           9,72,73,75,6' 1/73           9,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           11'1,1'',1'',1'',1'',1'',1'',1'',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''''',1''''',1''''',1'''',1''''',1''''',1'''',1'''',1''''''   
   
  | (12)<br>(8) (10) (2)<br>(4)<br>1277.141<br>1277.141<br>(4)<br>1277.141<br>(2)<br>11(2.18 (8)<br>10 91<br>1 (2)<br>11(2.18 (8)<br>10 91<br>1 (2)<br>11(2.18 (8)<br>10 91<br>1 (2)<br>1 ( | (14)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)   | (2)<br>(2)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)   | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   | (1)<br>8/3.27, 10/12, 1<br>(1)<br>8/1, 25<br>(2)<br>(1)<br>8/1, 25<br>(2)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1) | (2) (1)<br>1/22.25 (()<br>(2) (1)<br>1/22.25 (()<br>(2) ()<br>(2) ()<br>(1) ()<br>(1 | () () () (3) (2)<br>() (1) (3) (2)<br>() (2)<br>() (2)<br>() (2)<br>() (1)<br>() (1)<br>() (1)<br>() (1)<br>() (2)<br>() () (2)<br>() (2)<br>( | 16         16.         3.25.         3.25.           22         24         (0)         7.28.         30.00         7.7 28.           (10)         (3)         (3)         (3)         (4)         (4)           (10)         (3)         (3)         (4)         (4)         (4)           (10)         (3)         (4)         (4)         (4)         (4)         (4)           (10)         (3)         (4)         (4)         (4)         (4)         (4)         (4)           (10)         (3)         (4) </td <td>(3)<br/>12/1.2.5<br/>(3)<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/1.4.9<br/>10/1.4.9.3<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>1</td> <td>(8) ((<br/>17, 9-<br/>12, 14-17, 19, 20, 17, 19, 20, 17, 19, 20, 17, 19, 20, 17, 19, 20, 17, 19, 20, 17, 19, 20, 19, 10, 20, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1</td> <td>2/8-10 :<br/>1/12:<br/>2/13 (3) (<br/>2-4, 2/15, 2<br/>13 (3) - 2/15, 2<br/>13 (3) - 2/15, 2<br/>(3) (2) - 2/15, 2<br/>(3) - 2/15, 2<br/>(4) (2) - 3<br/>3) (14) (2) - 3<br/>4) (2) -</td> <td>20,22, 23 2<br/>7, (7)<br/>20, 27<br/>20, 27<br/>20, 27<br/>20, 27<br/>20, 28<br/>20, 20<br/>20, 20<br/>2</td> <td>24-28 (2)<br/>5 5/8.9<br/>(2)<br/>(2)<br/>(3)<br/>5 /1-4<br/>(4)<br/>(4)<br/>(5)<br/>(10)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(7,10-<br/>(3)<br/>(7,10-<br/>(4)<br/>(4)<br/>(4)<br/>(5)<br/>(1-21,24-<br/>(4)<br/>(5)<br/>(1-21,24-<br/>(4)<br/>(5)<br/>(2)<br/>(2)<br/>(3)<br/>(4)<br/>(3)<br/>(7,10-<br/>(3)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5</td> <td>-28<br/>10, 14, 15<br/>24-26, 29<br/>8-12,<br/>-14,<br/>25-28</td> <td></td> <td>97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           144.6         7.23           115.4         5.77           115.4         5.77           81.6         4.08</td> |
(3)<br>12/1.2.5<br>(3)<br>10/2.9.37<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/1.4.9<br>10/1.4.9.3<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>1   | (8) ((<br>17, 9-<br>12, 14-17, 19, 20, 17, 19, 20, 17, 19, 20, 17, 19, 20, 17, 19, 20, 17, 19, 20, 17, 19, 20, 19, 10, 20, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1   | 2/8-10 :<br>1/12:<br>2/13 (3) (<br>2-4, 2/15, 2<br>13 (3) - 2/15, 2<br>13 (3) - 2/15, 2<br>(3) (2) - 2/15, 2<br>(3) - 2/15, 2<br>(4) (2) - 3<br>3) (14) (2) - 3<br>4) (2) -  | 20,22, 23 2<br>7, (7)<br>20, 27<br>20, 27<br>20, 27<br>20, 27<br>20, 28<br>20, 20<br>20, 20<br>2  | 24-28 (2)<br>5 5/8.9<br>(2)<br>(2)<br>(3)<br>5 /1-4<br>(4)<br>(4)<br>(5)<br>(10)<br>(2)<br>(2)<br>(2)<br>(3)<br>(7,10-<br>(3)<br>(7,10-<br>(4)<br>(4)<br>(4)<br>(5)<br>(1-21,24-<br>(4)<br>(5)<br>(1-21,24-<br>(4)<br>(5)<br>(2)<br>(2)<br>(3)<br>(4)<br>(3)<br>(7,10-<br>(3)<br>(4)<br>(4)<br>(5)<br>(4)<br>(5)<br>(5)<br>(4)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5   | -28<br>10, 14, 15<br>24-26, 29<br>8-12,<br>-14,<br>25-28   |                    | 97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           144.6         7.23           115.4         5.77           115.4         5.77           81.6         4.08   |
|   | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Renewable Energy Energy Efficiency  | Predecessor<br>Tomoyasu FUKUCHI 2<br>Successor<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yasuhiro SAKAMOTO 3   | Actual<br>Pian<br>Actual<br>Pian<br>Actual<br>Pian<br>Pian<br>Actual   
  |                                       | (5)<br>(6)<br>4/5.9.1 24(4)<br>(6)<br>4/3-5.9.25 (5)  | (1)<br>5/9,10<br>(2)<br>5/10,11<br>(2)<br>(2)<br>(2)   | (3)<br>(3)<br>(3) 6/10,11<br>1 (3) 7/3<br>6/18-2<br>(3)                                       | 8/6,27<br>(1,20 (2)<br>30,31<br>20 8/5,6<br>(2) (2) | 10/9, 15]         (2)         (8)           (6)         10/8-11, 15-1         (6)           (712, 73         (6)         1           (2)         (2)         1           (10)         10/9, 15         1/2           (2)         (2)         (2)           (2)         (2)         (2)           (2)         (2)         (2)           (2)         (2)         (2)  
   
   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                              | 0'3.7,6'.0',1/3           9,72,73,75,6' 1/73           9,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           11'1,1'',1'',1'',1'',1'',1'',1'',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''''',1''''',1'''',1''''',1''''',1'''',1'''',1''''''   
   
  | (12)<br>(8) (10) (2)<br>(4)<br>1277.141<br>1277.141<br>(4)<br>1277.141<br>(2)<br>11(2.18 (8)<br>10 91<br>1 (2)<br>11(2.18 (8)<br>10 91<br>1 (2)<br>11(2.18 (8)<br>10 91<br>1 (2)<br>1 ( | (14)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)   | (2)<br>(2)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)   | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   | (1)<br>8/3, 27, 10/12, 1<br>2)<br>(1)<br>8/1, 25<br>(2)<br>31, 11/22  | (2) (1)<br>1/22.25 (()<br>(2) (1)<br>1/22.25 (()<br>(2) ()<br>(2) ()<br>(1) ()<br>(1 | )<br>)<br>)<br>)<br>)<br>)<br>)<br>)<br>)<br>)<br>)<br>)<br>)<br>)   | 16:18.         0.27.         13.25.           23:24 (8)         (8).38.30 (8) 77.28.           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (3)           (10)         (10)   
  | (3)<br>10/2 9.31<br>10/2 9   | (8) ((<br>17, 9-<br>12, 14-17, 19, 20, 17, 19, 20, 17, 19, 20, 17, 19, 20, 17, 19, 20, 17, 19, 20, 17, 19, 20, 19, 10, 20, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1   | $\begin{array}{c} 28-10 \\ 1712
\\ 1712 \\ 1$  | 20,22, 23 2<br>7, (7)<br>20,<br>20,<br>20,<br>20,<br>20,<br>20,<br>20,<br>20,   | 24-28 (2)<br>578,9<br>(2)<br>(2)<br>(3)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7  | -28<br>10, 14, 15<br>24/26,29<br>8-12,<br>-14,<br>25/28<br>7   |                    | 97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           144.6         7.23           115.4         5.77           115.4         5.77   |
|   | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Renewable Energy Energy Efficiency  | Predecessor<br>Tomoyasu FUKUCHI 2<br>Successor<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yasuhiro SAKAMOTO 3   | Actual       Plan       Plan       Plan       Plan       Plan       Plan       Plan       Actual       Plan       Actual       Plan       Actual       Plan       Actual       Plan       Plan       Plan       Plan       Plan       Plan   
  |                                       | (5)<br>(6)<br>4/5.9.1 24(4)<br>(6)<br>4/3-5.9.25 (5)  | (1)<br>5/9,10<br>(2)<br>5/10,11<br>(2)<br>(2)<br>(2)   | (3)<br>(3)<br>(3) 6/10,11<br>1 (3) 7/3<br>6/18-2<br>(3)                                       | 8/6,27<br>(1,20 (2)<br>30,31<br>20 8/5,6<br>(2) (2) | 10/9, <b>15</b> ] (2) (8<br>(6) 10/8-11, 15-1<br>(6) 10/8-11, 15-1<br>(6) 10/8-15 1//<br>(2) (2) 10/9 15 1//<br>(2) (2) 10/15<br>(1) (1) 10/15 (1)  
   
   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                              | 0'3.7,6'.0',1/3           9,72,73,75,6' 1/73           9,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           11'1,1'',1'',1'',1'',1'',1'',1'',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''''',1''''',1'''',1''''',1''''',1'''',1'''',1''''''   
   
  | (12)<br>(8) (10) (2)<br>(4)<br>1277.141<br>1277.141<br>(4)<br>1277.141<br>(2)<br>11(2.18 (8)<br>10 91 1 11<br>(2)<br>11(2.18 (3)<br>10 91 1 11<br>12 (3)<br>12   | (14)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)   | (2)<br>(2)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)   | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   | (1)<br>8/3.27, 10/12, 1<br>(1)<br>8/1, 25<br>(2)<br>(1)<br>8/1, 25<br>(2)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1) | (2) (1)<br>1/22.25 (()<br>(2) (1)<br>1/22.25 (()<br>(2) ()<br>(2) ()<br>(1) ()<br>(1 | () () () (3) (2)<br>() (1) (3) (2)<br>() (2)<br>() (2)<br>() (2)<br>() (1)<br>() (1)<br>() (1)<br>() (1)<br>() (2)<br>() () (2)<br>() (2)<br>( | 16         16.         3.25.         3.25.           22         24         (0)         7.28.         30.00         7.7 28.           (10)         (3)         (3)         (3)         (4)         (4)           (10)         (3)         (3)         (4)         (4)         (4)           (10)         (3)         (4)         (4)         (4)         (4)         (4)           (10)         (3)         (4)         (4)         (4)         (4)         (4)         (4)           (10)         (3)         (4) </td <td>(3)<br/>12/1.2.5<br/>(3)<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/1.4.9<br/>10/1.4.9.3<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>1</td> <td>(8) ((<br/>17, 9-<br/>12, 14-17, 19, 20, 17, 19, 20, 17, 19, 20, 17, 19, 20, 17, 19, 20, 17, 19, 20, 17, 19, 20, 19, 10, 20, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1</td> <td><math display="block">\begin{array}{c} 28-10 \\ 1712
\\ 1712 \\ 1</math></td> <td>20,22, 23 2<br/>7, (7)<br/>20,<br/>20,<br/>20,<br/>20,<br/>20,<br/>20,<br/>20,<br/>20,</td> <td>24-28 (2)<br/>578,9<br/>(2)<br/>(2)<br/>(3)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7</td> <td>-28<br/>10, 14, 15<br/>24/26,29<br/>8-12,<br/>-14,<br/>25/28<br/>7</td> <td></td> <td>97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           144.6         7.23           115.4         5.77           115.4         5.77           81.6         4.08</td>   | (3)<br>12/1.2.5<br>(3)<br>10/2.9.37<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/1.4.9<br>10/1.4.9.3<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>1   | (8) ((<br>17, 9-<br>12, 14-17, 19, 20, 17, 19, 20, 17, 19, 20, 17, 19, 20, 17, 19, 20, 17, 19, 20, 17, 19, 20, 19, 10, 20, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1   | $\begin{array}{c} 28-10 \\ 1712 \\
1712 \\ 1$  | 20,22, 23 2<br>7, (7)<br>20,<br>20,<br>20,<br>20,<br>20,<br>20,<br>20,<br>20,   | 24-28 (2)<br>578,9<br>(2)<br>(2)<br>(3)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7  | -28<br>10, 14, 15<br>24/26,29<br>8-12,<br>-14,<br>25/28<br>7   |                    | 97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           144.6         7.23           115.4         5.77           115.4         5.77           81.6         4.08   |
|   | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Renewable Energy Energy Efficiency Grid Stabilization   | Predecessor 7<br>Tomoyasu FUKUCHI 2<br>Successor 7<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Hiroshi SUZUKI 4<br>Hiroshi SUZUKI 4   | Actual       Plan       Plan       Plan       Plan       Plan       Plan       Actual  
  |                                       | (5)<br>(6)<br>4/5.9.1 24(4)<br>(6)<br>4/3-5.9.25 (5)  | (1)<br>5/9,10<br>(2)<br>5/10,11<br>(2)<br>(2)<br>(2)   | (3)<br>(3)<br>(3) 6/10,11<br>1 (3) 7/3<br>6/18-2<br>(3)                                       | 8/6,27<br>(1,20 (2)<br>30,31<br>20 8/5,6<br>(2) (2) | 10/9, <b>15</b> ] (2) (8<br>(6) 10/8-11, 15-1<br>(6) 10/8-11, 15-1<br>(6) 10/8-15 1//<br>(2) (2) 10/9 15 1//<br>(2) (2) 10/15<br>(1) (1) 10/15 (1)  
   
   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                              | 0'3.7,6'.0',1/3           9,72,73,75,6' 1/73           9,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           11'1,1'',1'',1'',1'',1'',1'',1'',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''''',1''''',1'''',1''''',1''''',1'''',1'''',1''''''   
   
  | (12)<br>(8) (10) (2)<br>(4)<br>1277.141<br>1277.141<br>(4)<br>1277.141<br>(2)<br>11(2.18 (8)<br>10 91 1 11<br>(2)<br>11(2.18 (3)<br>10 91 1 11<br>12 (3)<br>12   | (14)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)   | (2)<br>(2)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)   | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   | (1)<br>8/3.27, 10/12, 1<br>(1)<br>8/1, 25<br>(2)<br>(1)<br>8/1, 25<br>(2)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1) | (2) (1)<br>1/22.25 (()<br>(2) (1)<br>1/22.25 (()<br>(2) ()<br>(2) ()<br>(1) ()<br>(1 | () () () (3) (2)<br>() (1) (3) (2)<br>() (2)<br>() (2)<br>() (2)<br>() (1)<br>() (1)<br>() (1)<br>() (1)<br>() (2)<br>() () (2)<br>() (2)<br>( | 16         16.         3.25.         3.25.           22         24         (0)         7.28.         30.00         7.7 28.           (10)         (3)         (3)         (3)         (4)         (4)           (10)         (3)         (3)         (4)         (4)         (4)           (10)         (3)         (4)         (4)         (4)         (4)         (4)           (10)         (3)         (4)         (4)         (4)         (4)         (4)         (4)           (10)         (3)         (4) </td <td>(3)<br/>12/1.2.5<br/>(3)<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/1.4.9<br/>10/1.4.9.3<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>10/1.4.9<br/>1</td> <td>(8) ((<br/>11/14-17,<br/>19,20, 17)<br/>12/14-17,<br/>19,20, 17)<br/>12/15,<br/>16,20,<br/>12/15,<br/>16,20,<br/>12/12,<br/>15)<br/>12/23<br/>(1)</td> <td><math display="block">\begin{array}{c} 28-10 \\ 1712 \\ 1712 \\ 21^{3} \\ 3 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1713 \\ 17</math></td> <td>20,22,23 2<br/>7) (7)<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-</td> <td>24-28
(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5</td> <td>-28<br/>10, 14, 15<br/>24/26,29<br/>8-12,<br/>-14,<br/>25/28<br/>7</td> <td></td> <td>97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           144.6         7.23           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80</td>   | (3)<br>12/1.2.5<br>(3)<br>10/2.9.37<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/1.4.9<br>10/1.4.9.3<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>10/1.4.9<br>1   | (8) ((<br>11/14-17,<br>19,20, 17)<br>12/14-17,<br>19,20, 17)<br>12/15,<br>16,20,<br>12/15,<br>16,20,<br>12/12,<br>15)<br>12/23<br>(1)  | $\begin{array}{c} 28-10 \\ 1712 \\ 1712 \\ 21^{3} \\ 3 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1713 \\
1713 \\ 17$  | 20,22,23 2<br>7) (7)<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-  | 24-28 (2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(4)<br>(4)<br>(4)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5  | -28<br>10, 14, 15<br>24/26,29<br>8-12,<br>-14,<br>25/28<br>7   |                    | 97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           144.6         7.23           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80   |
| H                                       | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Renewable Energy Energy Efficiency Grid Stabilization Grid Stabilization  | Predecessor 7<br>Tornoyasu FUKUCHI 2<br>Successor 7<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yasuhiro SAKAMOTO 3<br>Hiroshi SUZUKI 4<br>Hisao TAOKA 4   | Actual       Plan       Plan       Actual       Plan       Plan       Actual   
  |                                       | (5)<br>(6)<br>4/5.9.1 24(4)<br>(6)<br>4/3-5.9.2 5 (5)<br>(6)  | (1)<br>5/9,10<br>(2)<br>5/10,11<br>5/10,11<br>(2)<br>(2)   | (3)<br>(3)<br>(3) 6/10, 11<br>(3) 6/18-2<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)            | 8/6,27<br>(1,20 (2)<br>30,31<br>20 8/5,6<br>(2) (2) | 10/9, <b>15</b> ] (2) (8<br>(6) 10/8-11, 15-1<br>(6) 10/8-11, 15-1<br>(6) 10/8-15 1//<br>(2) (2) 10/9 15 1//<br>(2) (2) 10/15<br>(1) (1) 10/15 (1)  
   
   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                              | 0'3.7,6'.0',1/3           9,72,73,75,6' 1/73           9,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           11'1,1'',1'',1'',1'',1'',1'',1'',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''''',1''''',1'''',1''''',1''''',1'''',1'''',1''''''   
   
  | (12)<br>(8) (10) (2)<br>(4)<br>1277.141<br>1277.141<br>(4)<br>1277.141<br>(2)<br>11(2.18 (8)<br>10 91 1 11<br>(2)<br>11(2.18 (3)<br>10 91 1 11<br>12 (3)<br>12   | (14)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)   | (2)<br>(2)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)   | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   | (1)<br>8/3.27, 10/12, 1<br>(1)<br>8/1, 25<br>(2)<br>(1)<br>8/1, 25<br>(2)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1) | (2) (1)<br>1/22.25 (()<br>(2) (1)<br>1/22.25 (()<br>(2) ()<br>(2) ()<br>(1) ()<br>(1 | () () () (3) (2)<br>() (1) (3) (2)<br>() (2)<br>() (2)<br>() (2)<br>() (1)<br>() (1)<br>() (1)<br>() (1)<br>() (2)<br>() () (2)<br>() (2)<br>( | 16         16.         3.25.         3.25.           22         24         (0)         7.28.         30.00         7.7 28.           (10)         (3)         (3)         (3)         (4)         (4)           (10)         (3)         (3)         (4)         (4)         (4)           (10)         (3)         (4)         (4)         (4)         (4)         (4)           (10)         (3)         (4)         (4)         (4)         (4)         (4)         (4)           (10)         (3)         (4) </td <td>(3)<br/>12/1.2.5<br/>(3)<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/1.4.18<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.2.52<br/>11/1<br/>10/1.4.19<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.</td> <td>(8) ((<br/>11/14-17,<br/>19,20, 17)<br/>12/14-17,<br/>19,20, 17)<br/>12/15,<br/>16,20,<br/>12/15,<br/>16,20,<br/>12/12,<br/>15)<br/>12/23<br/>(1)</td> <td><math display="block">\begin{array}{c} 28-10 \\ 1712 \\ 1</math></td> <td>20,22,23 2<br/>7) (7)<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-</td> <td>24-28
(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5</td> <td>-28<br/>10, 14, 15<br/>24/26,29<br/>8-12,<br/>-14,<br/>25/28<br/>7</td> <td></td> <td>97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           144.6         7.23           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28</td>  | (3)<br>12/1.2.5<br>(3)<br>10/2.9.37<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/1.4.18<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.2.52<br>11/1<br>10/1.4.19<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.                                       | (8) ((<br>11/14-17,<br>19,20, 17)<br>12/14-17,<br>19,20, 17)<br>12/15,<br>16,20,<br>12/15,<br>16,20,<br>12/12,<br>15)<br>12/23<br>(1)  | $\begin{array}{c} 28-10 \\ 1712
\\ 1712 \\ 1$  | 20,22,23 2<br>7) (7)<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-  | 24-28 (2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(4)<br>(4)<br>(4)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5  | -28<br>10, 14, 15<br>24/26,29<br>8-12,<br>-14,<br>25/28<br>7   |                    | 97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           144.6         7.23           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28  |
|   | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Renewable Energy Energy Efficiency Grid Stabilization   | Predecessor 7<br>Tomoyasu FUKUCHI 2<br>Successor 7<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Hiroshi SUZUKI 4<br>Hiroshi SUZUKI 4   | Actual       Plan       Actual       Plan       Plan       Plan       Actual       Plan       Actual       Plan       Actual       Plan       Actual       Plan       Actual       Plan       Actual       Plan       Plan       Actual       Plan       Plan       Plan   
  |                                       | (5)<br>(6)<br>4/5.9.1 24(4)<br>(6)<br>4/3-5.9.2 5 (5)<br>(6)  | (1)<br>5/9,10<br>(2)<br>5/10,11<br>5/10,11<br>(2)<br>(2)   | (3)<br>(3)<br>(3) 6/10, 11<br>(3) 6/18-2<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)            | 8/6,27<br>(1,20 (2)<br>30,31<br>20 8/5,6<br>(2) (2) | 10.9, 151<br>(2) (8<br>(6) (0.8-11, 15-1)<br>(6) (0.8-11, 15-1)<br>(712, 13 (6)<br>(712, 13 (6)<br>(712, 13 (6)<br>(712, 13 (75)<br>(712, 13 (75)<br>(711, 15, 1)<br>(711, 15,  
   
   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                              | 0'3.7,6'.0',1/3           9,72,73,75,6' 1/73           9,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           11'1,1'',1'',1'',1'',1'',1'',1'',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''''',1''''',1'''',1''''',1''''',1'''',1'''',1''''''   
  | (12)<br>(8) (10) (2)<br>(4)<br>1277.141<br>1277.141<br>(4)<br>1277.141<br>(2)<br>11(2.18 (8)<br>10 91 1 11<br>(2)<br>11(2.18 (3)<br>10 91 1 11<br>12 (3)<br>12   | (14)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)  
  | (2)<br>(2)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)   | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   | (1)<br>8/3.27, 10/12, 1<br>(1)<br>8/1, 25<br>(2)<br>(1)<br>8/1, 25<br>(2)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1) | (2) (1)<br>1/22.25 (()<br>(2) (1)<br>1/22.25 (()<br>(2) ()<br>(2) ()<br>(1) ()<br>(1 | () () () (3) (2)<br>() (1) (3) (2)<br>() (2)<br>() (2)<br>() (2)<br>() (1)<br>() (1)<br>() (1)<br>() (1)<br>() (2)<br>() () (2)<br>() (2)<br>( | 16         16.         3.25.         3.25.           22         24         (0)         7.28.         30.00         7.7 28.           (10)         (3)         (3)         (3)         (4)         (4)           (10)         (3)         (3)         (4)         (4)         (4)           (10)         (3)         (4)         (4)         (4)         (4)         (4)           (10)         (3)         (4)         (4)         (4)         (4)         (4)         (4)           (10)         (3)         (4) </td <td>(3)<br/>12/1.2.5<br/>(3)<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/1.4.18<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.2.52<br/>11/1<br/>10/1.4.19<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.</td> <td>(8) ((<br/>11/14-17,<br/>19,20, 17)<br/>12/14-17,<br/>19,20, 17)<br/>12/15,<br/>16,20,<br/>12/15,<br/>16,20,<br/>12/12,<br/>15)<br/>12/23<br/>(1)</td> <td><math display="block">\begin{array}{c} 28-10 \\ 1712 \\ 1712 \\ 21^{3} \\ 3 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1713 \\ 17</math></td> <td>20,22,23 2<br/>7) (7)<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-</td> <td>24-28 (2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5</td> <td>-28<br/>10, 14, 15<br/>24/26,29<br/>8-12,<br/>-14,<br/>25/28<br/>7</td> <td></td> <td>97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30</td>  
   | (3)<br>12/1.2.5<br>(3)<br>10/2.9.37<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/1.4.18<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.2.52<br>11/1<br>10/1.4.19<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.                                       | (8) ((<br>11/14-17,<br>19,20, 17)<br>12/14-17,<br>19,20, 17)<br>12/15,<br>16,20,<br>12/15,<br>16,20,<br>12/12,<br>15)<br>12/23<br>(1)  | $\begin{array}{c} 28-10 \\ 1712 \\ 1712 \\ 21^{3} \\ 3 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1713 \\ 17$  | 20,22,23 2<br>7) (7)<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-   
  | 24-28 (2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(4)<br>(4)<br>(4)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5  | -28<br>10, 14, 15<br>24/26,29<br>8-12,<br>-14,<br>25/28<br>7   |                    | 97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30  |
| H                                       | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Guide Team Leader / Power System (2) Renewable Energy Energy Efficiency Grid Stabilization Grid Stabilization Diesel / Gas-turbine Power Plant / Coordination   | Predecessor 7<br>Tornoyasu FUKUCHI 2<br>Successor 7<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yasuhiro SAKAMOTO 3<br>Hiroshi SUZUKI 4<br>Hisao TAOKA 4<br>Ryota NISHINO 5<br>S   | Actual       Plan       Plan       Plan       Plan       Plan       Plan       Actual  
  |                                       | (5)<br>(6)<br>4/5.9.1 24(4)<br>(6)<br>4/3-5.9.2 5 (5)<br>(6)  | (1)<br>5/9,10<br>(2)<br>5/10,11<br>(2)<br>(2)<br>(2)   | (3)<br>(3)<br>(3) 6/10, 11<br>(3) 6/18-2<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)            | 8/6,27<br>(1,20 (2)<br>30,31<br>20 8/5,6<br>(2) (2) | 10.9, 151<br>(2) (8<br>(6) (0.8-11, 15-1)<br>(6) (0.8-11, 15-1)<br>(712, 13 (6)<br>(712, 13 (6)<br>(712, 13 (6)<br>(712, 13 (75)<br>(712, 13 (75)<br>(711, 15, 1)<br>(711, 15,  
   
   | $\begin{array}{c c c c c c c c c c c c c c c c c c c $                             | 0'3.7,6'.0',1/3           9,72,73,75,6' 1/73           9,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           11'1,1'',1'',1'',1'',1'',1'',1'',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''''',1''''',1'''',1''''',1''''',1'''',1'''',1''''''   
  | (12)<br>(8) (10) (2)<br>(4)<br>1277.141<br>1277.141<br>(4)<br>1277.141<br>(2)<br>11(2.18 (8)<br>10 91 1 11<br>(2)<br>11(2.18 (3)<br>10 91 1 11<br>12 (3)<br>12   | (14)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)   | (2)<br>(2)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)                   
   | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   | (1)<br>8/3.27, 10/12, 1<br>(1)<br>8/1, 25<br>(2)<br>(1)<br>8/1, 25<br>(2)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1) | (2) (1)<br>1/22.25 (()<br>(2) (1)<br>1/22.25 (()<br>(2) ()<br>(2) ()<br>(1) ()<br>(1 | () () () (3) (2)<br>() (1) (3) (2)<br>() (2)<br>() (2)<br>() (2)<br>() (1)<br>() (1)<br>() (1)<br>() (1)<br>() (2)<br>() () (2)<br>() (2)<br>( | 16         16.         3.25.         3.25.           22         24         (0)         7.28.         30.00         7.7 28.           (10)         (3)         (3)         (3)         (4)         (4)           (10)         (3)         (3)         (4)         (4)         (4)           (10)         (3)         (4)         (4)         (4)         (4)         (4)           (10)         (3)         (4)         (4)         (4)         (4)         (4)         (4)           (10)         (3)         (4) </td <td>(3)<br/>12/1.2.5<br/>(3)<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/1.4.18<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.2.52<br/>11/1<br/>10/1.4.19<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.</td> <td>(8) ((<br/>11/14-17-<br/>19.20, 17)<br/>12/14-17-<br/>19.20, 17)<br/>12/15-<br/>16.20,<br/>12/15-<br/>16.20,<br/>12/23-<br/>(5)<br/>12/23-<br/>(1)</td> <td><math display="block">\begin{array}{c} 28-10 \\ 1712 \\ 1712 \\ 21^{3} \\ 3 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1713 \\ 17</math></td> <td>20,22,23 2<br/>7) (7)<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-</td> <td>24-28 (2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5</td> <td>-28<br/>10, 14, 15<br/>24/26,29<br/>8-12,<br/>-14,<br/>25/28<br/>7</td> <td></td> <td>97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30           7.4         0.37</td>  
   | (3)<br>12/1.2.5<br>(3)<br>10/2.9.37<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/1.4.18<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.2.52<br>11/1<br>10/1.4.19<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.                                       | (8) ((<br>11/14-17-<br>19.20, 17)<br>12/14-17-<br>19.20, 17)<br>12/15-<br>16.20,<br>12/15-<br>16.20,<br>12/23-<br>(5)<br>12/23-<br>(1)   | $\begin{array}{c} 28-10 \\ 1712 \\ 1712 \\ 21^{3} \\ 3 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1713 \\ 17$  | 20,22,23 2<br>7) (7)<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-   
  | 24-28 (2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(4)<br>(4)<br>(4)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5  | -28<br>10, 14, 15<br>24/26,29<br>8-12,<br>-14,<br>25/28<br>7   |                    | 97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30           7.4         0.37   |
| H                                       | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Renewable Energy Energy Efficiency Grid Stabilization Grid Stabilization  | Predecessor 7<br>Tornoyasu FUKUCHI 2<br>Successor 7<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yasuhiro SAKAMOTO 3<br>Hiroshi SUZUKI 4<br>Hisao TAOKA 4   | Actual       Plan       Plan       Actual       Plan       Plan       Actual   
  |                                       | (5)<br>(6)<br>(4/5.9.7 22(4)<br>(6)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7      | (1)<br>5/9,10<br>(2)<br>5/10,11<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)  | (3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)  | 8/6,27<br>(1,20 (2)<br>30,31<br>20 8/5,6<br>(2) (2) | 10.9, 151<br>(2) (8<br>(6)<br>(6)<br>(72.13 (6)<br>(72.13 (6)<br>(72.13 (6)<br>(72.13 (7)<br>(70.75 17)<br>(71.75 17)   
   
   | $\begin{array}{c c c c c c c c c c c c c c c c c c c $                             | 0'3.7,6'.0',1/3           9,72,73,75,6' 1/73           9,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           11'1,1'',1'',1'',1'',1'',1'',1'',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''''',1''''',1'''',1''''',1''''',1'''',1'''',1''''''   
  | (12)<br>(8) (10) (2)<br>(4)<br>1277.141<br>1277.141<br>(4)<br>1277.141<br>(2)<br>11(2.18 (8)<br>10 91 1 11<br>(2)<br>11(2.18 (3)<br>10 91 1 11<br>12 (3)<br>12   | (14)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)   | (2)<br>(2)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)   
           | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   | (1)<br>8/3.27, 10/12, 1<br>(1)<br>8/1, 25<br>(2)<br>(1)<br>8/1, 25<br>(2)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1) | (2) (1)<br>1/22.25 (()<br>(2) (1)<br>1/22.25 (()<br>(2) ()<br>(2) ()<br>(1) ()<br>(1 | () () () (3) (2)<br>() (1) (3) (2)<br>() (2)<br>() (2)<br>() (2)<br>() (1)<br>() (1)<br>() (1)<br>() (1)<br>() (2)<br>() () (2)<br>() (2)<br>( | 16         16.         3.25.         3.25.           22         24         (0)         7.28.         30.00         7.7 28.           (10)         (3)         (3)         (3)         (4)         (4)           (10)         (3)         (3)         (4)         (4)         (4)           (10)         (3)         (4)         (4)         (4)         (4)         (4)           (10)         (3)         (4)         (4)         (4)         (4)         (4)         (4)           (10)         (3)         (4) </td <td>(3)<br/>12/1.2.5<br/>(3)<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/1.4.18<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.2.52<br/>11/1<br/>10/1.4.19<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.</td> <td>(8) ((<br/>11/14-17-<br/>19.20, 17)<br/>12/14-17-<br/>19.20, 17)<br/>12/15-<br/>16.20,<br/>12/15-<br/>16.20,<br/>12/23-<br/>(5)<br/>12/23-<br/>(1)</td> <td><math display="block">\begin{array}{c} 28-10 \\ 1712 \\ 1712 \\ 21^{3} \\ 3 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1713 \\ 17</math></td> <td>20,22,23 2<br/>7) (7)<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-</td> <td>24-28 (2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5</td> <td>-28<br/>10, 14, 15<br/>24/26,29<br/>8-12,<br/>-14,<br/>25/28<br/>7</td> <td></td> <td>97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30</td>   
   | (3)<br>12/1.2.5<br>(3)<br>10/2.9.37<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/1.4.18<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.2.52<br>11/1<br>10/1.4.19<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.                                       | (8) ((<br>11/14-17-<br>19.20, 17)<br>12/14-17-<br>19.20, 17)<br>12/15-<br>16.20,<br>12/15-<br>16.20,<br>12/23-<br>(5)<br>12/23-<br>(1)   | $\begin{array}{c} 28-10 \\ 1712 \\ 1712 \\ 21^{3} \\ 3 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1713 \\ 17$  | 20,22,23 2<br>7) (7)<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-   
  | 24-28 (2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(4)<br>(4)<br>(4)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5  | -28<br>10, 14, 15<br>24/26,29<br>8-12,<br>-14,<br>25/28<br>7   |                    | 97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30  |
| H 0 H                                   | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Guide Team Leader / Power System (2) Renewable Energy Energy Efficiency Grid Stabilization Grid Stabilization Diesel / Gas-turbine Power Plant / Coordination   | Predecessor 7<br>Tornoyasu FUKUCHI 2<br>Successor 7<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yasuhiro SAKAMOTO 3<br>Hiroshi SUZUKI 4<br>Hisao TAOKA 4<br>Ryota NISHINO 5<br>S   | Actual       Plan       Plan       Plan       Plan       Plan       Plan       Actual  
  |                                       | (5)<br>(6)<br>(4/5.9.7 22(4)<br>(6)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7      | (1)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>(2)<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2) | (3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)  | 8/6,27<br>(1,20 (2)<br>30,31<br>20 8/5,6<br>(2) (2) | 10/3, [5] (2) (8)<br>(2) (8)<br>(6) (0)<br>(6) (10/6-11, 15-11)<br>(6) (10/7, 15-11)<br>(7) (10/7, 15-11)<br>(2) (2) (2)<br>[9/5 [10/75<br>(3) 10/75, 15]<br>(3) 10/75, 15]<br>(3) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2   
   
   | $\begin{array}{c c c c c c c c c c c c c c c c c c c $                             | 0'3.7,6'.0',1/3           9,72,73,75,6' 1/73           9,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           10'0,72,73,75,6' 1/73           11'1,1'',1'',1'',1'',1'',1'',1'',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''',1''''',1''''',1'''',1''''',1''''',1'''',1'''',1''''''   
   
  | (12)<br>(8) (10) (2)<br>(4)<br>1277.141<br>1277.141<br>(4)<br>1277.141<br>(2)<br>11(2.18 (8)<br>10 91<br>1 (2)<br>11(2.18 (8)<br>10 91<br>1 (2)<br>11(2.18 (8)<br>10 91<br>1 (2)<br>1 ( | (14)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)   | (2)<br>(2)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)   | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   | (1)<br>8/3.27, 10/12, 1<br>(1)<br>8/1, 25<br>(2)<br>(1)<br>8/1, 25<br>(2)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 27<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>(1)<br>8/1, 25<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1) | (2) (1)<br>1/22.25 (()<br>(2) (1)<br>1/22.25 (()<br>(2) ()<br>(2) ()<br>(1) ()<br>(1 | () () () (3) (2)<br>() (1) (3) (2)<br>() (2)<br>() (2)<br>() (2)<br>() (1)<br>() (1)<br>() (1)<br>() (1)<br>() (2)<br>() () (2)<br>() (2)<br>( | 16         16.         3.25.         3.25.           22         24         (0)         7.28.         30.00         7.7 28.           (10)         (3)         (3)         (3)         (4)         (4)           (10)         (3)         (3)         (4)         (4)         (4)           (10)         (3)         (4)         (4)         (4)         (4)         (4)           (10)         (3)         (4)         (4)         (4)         (4)         (4)         (4)           (10)         (3)         (4) </td <td>(3)<br/>12/1.2.5<br/>(3)<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.0.11/1.<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/2.9.37<br/>10/1.4.18<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.4.19<br/>10/1.2.52<br/>11/1<br/>10/1.4.19<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>11/1<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.52<br/>10/1.2.</td> <td>(8) ((<br/>11/14-17-<br/>19.20, 17)<br/>12/14-17-<br/>19.20, 17)<br/>12/15-<br/>16.20,<br/>12/15-<br/>16.20,<br/>12/23-<br/>(5)<br/>12/23-<br/>(1)</td> <td><math display="block">\begin{array}{c} 28-10 \\ 1712 \\ 1712 \\ 21^{3} \\ 3 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1713 \\ 17</math></td> <td>20,22,23 2<br/>7) (7)<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-<br/>20-</td> <td>24-28 (2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5</td>
<td>-28<br/>10, 14, 15<br/>24/26,29<br/>8-12,<br/>-14,<br/>25/28<br/>7</td> <td></td> <td>97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30           7.4         0.37</td>  | (3)<br>12/1.2.5<br>(3)<br>10/2.9.37<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.0.11/1.<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/2.9.37<br>10/1.4.18<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.4.19<br>10/1.2.52<br>11/1<br>10/1.4.19<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>11/1<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.52<br>10/1.2.                                       | (8) ((<br>11/14-17-<br>19.20, 17)<br>12/14-17-<br>19.20, 17)<br>12/15-<br>16.20,<br>12/15-<br>16.20,<br>12/23-<br>(5)<br>12/23-<br>(1)   | $\begin{array}{c} 28-10 \\ 1712 \\ 1712 \\ 21^{3} \\ 3 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1712 \\ 1713 \\
1713 \\ 17$  | 20,22,23 2<br>7) (7)<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-  | 24-28 (2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(4)<br>(4)<br>(4)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(5)<br>(4)<br>(5)<br>(4)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5)<br>(5  | -28<br>10, 14, 15<br>24/26,29<br>8-12,<br>-14,<br>25/28<br>7   |                    | 97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30           7.4         0.37   |
| H                                       | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Guide Team Leader / Power System (2) Renewable Energy Energy Efficiency Grid Stabilization Grid Stabilization Diesel / Gas-turbine Power Plant / Coordination   | Predecessor 7<br>Tomoyasu FUKUCHI 2<br>Successor 3<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yasuhiro SAKAMOTO 3<br>Hiroshi SUZUKI 4<br>Hisao TAOKA 4<br>Hisao TAOKA 4<br>Takahiro TANABE 4  | Actual       Plan       Plan       Plan       Plan       Plan       Actual   
  |                                       | (5)<br>(6)<br>(4/5.9.1 24(4)<br>(6)<br>4/3-5.9.25 (5)<br>(6)<br>(6)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7) | (1)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>(2)<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2) | (3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)  | 8/6,27<br>(1,20 (2)<br>30,31<br>20 8/5,6<br>(2) (2) | 10.9, [5] (2) (8<br>(6) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7  
   
   | $\begin{array}{c c c c c c c c c c c c c c c c c c c $                             | 013,7,6,10,143           9,24,27,14,16           101           101           117,           (10)           117,           (10)           117,           (10)           117,           (10)           117,           (10)           111,           (10)           112,           (10)           111,           (10)           111,           (10)           (11)           (12)           (11)           (12)           (12)           (13)           (14)           (15)           (16)           (17)           (18)           (17)           (18)           (17)           (18)           (17)           (18)           (17)           (18)           (10)           (10)           (10)           (10)           (10)           (10)           (10)           (110)   
   
  | (12)<br>(12)<br>(1)<br>(1)<br>(2)<br>(1)<br>(2)<br>(1)<br>(2)<br>(1)<br>(2)<br>(2)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2   | (14)<br>(14)<br>(22)<br>(22)<br>(22)<br>(22)<br>(22)<br>(3)<br>(4)<br>(27)<br>(3)<br>(6)<br>(27)<br>(3)<br>(6)<br>(27)<br>(3)<br>(1)<br>(2)<br>(2)<br>(3)<br>(3)<br>(4)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2   | (2)<br>(2)<br>(3)<br>(4)<br>(5)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)<br>(3)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2               | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   | (1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)  |  | (1) (1) (2) (2)<br>(2)<br>(2)<br>(2)<br>(1)<br>(2)<br>(1)<br>(1)<br>(2)<br>(2)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1  
   | 16         18.         20.27.         13.25.           23         24         (0)         73.26.           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           5/27         5/4         /2         -           (11)         (1)         (1)         -           5/27         5/4         /2         -           (11)         (1)         (1)         -         -           (11)         (1)         -         -         -  
   | (3)<br>10/2 9.31<br>10/2 9.31<br>10/2 9.31<br>10/2 (2) 9<br>10/20, 11/1.<br>10/2 9.31<br>10/2 (2) 9<br>10/20, 11/1.<br>10/2 4, 12<br>(14) (5) (6)<br>(17) (2)<br>(17) (2)<br>10/14, 19, (3)<br>(17) (2)<br>(3)<br>(1) (1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(3)<br>(3)<br>(1)<br>(3)<br>(3)<br>(1)<br>(3)<br>(3)<br>(1)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3  | (8) (1<br>1274-17,<br>1274-17,<br>19.20, 11<br>122-24<br>122-23<br>(7)<br>1275<br>16.20,<br>(7)<br>1275<br>16.20,<br>(7)<br>127-3<br>(7)<br>127-3<br>(7)<br>127-3<br>(7)<br>127-3<br>(7)<br>127-4<br>(8)<br>127-4<br>(8)<br>127-4<br>(8)<br>127-4<br>(8)<br>127-4<br>(8)<br>127-4<br>(8)<br>127-4<br>(8)<br>127-4<br>(8)<br>127-4<br>(8)<br>127-4<br>(8)<br>127-4<br>(8)<br>127-4<br>(8)<br>127-4<br>(8)<br>127-4<br>(8)<br>127-4<br>(8)<br>127-4<br>(8)<br>127-5<br>(8)<br>127-5<br>(8)<br>127-5<br>(8)<br>127-5<br>(8)<br>127-5<br>(8)<br>127-5<br>(8)<br>127-5<br>(8)<br>127-5<br>(8)<br>127-5<br>(8)<br>127-5<br>(8)<br>127-5<br>(8)<br>127-5<br>(8)<br>127-5<br>(8)<br>127-5<br>(7)<br>127-5<br>(7)<br>(7)<br>127-5<br>(7)<br>127-5<br>(7)<br>127-5<br>(7)<br>127-5<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)   | 28-10<br>11/12_<br>21/3 (3) (<br>21/3 (3) (<br>21/3) (2) (<br>21/3) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2   | 20,22, 2, 2<br>7) (7)<br>7) (7)<br>7) (7)<br>70 (7)<br>70 (20)<br>7)   | 44-28 (2)<br>578 (9)<br>44-3-7,10-<br>(9) 17-21,24<br>571 -4<br>571 -4<br>571 -4<br>(4)<br>571 -2<br>571 -2<br>(2) 18-20.<br>(2) 18-20.<br>(2) 18-20.<br>(2) 18-20.<br>(2) 18-20.<br>(3) 18-20.<br>(4) 19-20.<br>(4) 19-20.<br>(5) 19-20.<br>(5) 19-20.<br>(2) 19-20.<br>(6) 19-20.<br>(6) 19-20.<br>(7) 19-20.   | -28<br>10, 14, 15<br>24/26,29<br>8-12,<br>-14,<br>25/28<br>7   |                    | 97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           1144.6         7.23         
 115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30           7.4         0.37           4.0         0.20  |
| H                                       | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Sub Team Leader / Power System (2) Renewable Energy Energy Efficiency Grid Stabilization Grid Stabilization Desel / Gas-turbine Power Plant / Coordination Desel / Gas-turbine Power Plant / Coordination Human Resource Development / Monitoring   | Predecessor 2<br>Tomoyasu FUKUCHI 2<br>Successor 3<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yasuhiro SAKAMOTO 3<br>Hiroshi SUZUKI 4<br>Hisao TAOKA 4<br>Hisao TAOKA 4<br>Pisao TAOKA 4<br>Nama 1<br>Hisao TAOKA 4<br>A<br>Predecessor 3<br>Anna MIYAURA 4   | Actual       Plan       Plan       Actual       Plan       Actual  
  |                                       | (5)<br>(6)<br>(4/5.9.1 24(4)<br>(6)<br>4/3-5.9.25 (5)<br>(6)<br>(6)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7) | (1)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>(2)<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2) | (3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)  | 8/6,27<br>(1,20 (2)<br>30,31<br>20 8/5,6<br>(2) (2) | 10.9, [5]]     (2)     (8)       (6)     (7)076-171, 35-71       (7)     (7)076-171, 35-71       (6)     10.076, 175       (7)     170, 175       (7)     170, 175       (7)     170, 175       (7)     170, 175       (7)     170, 175       (7)     170, 175       (7)     170, 175       (7)     170, 175       (7)     170, 175       (7)     170, 175       (7)     170, 175       (7)     170, 175       (7)     170, 175       (7)     170, 175       (7)     170, 175       (10)     170, 175       (10)     170, 175   
   
   | $\begin{array}{c c c c c c c c c c c c c c c c c c c $                             | 0'3,7,5,1',1',8',9'           9,7,2,7,3,1',5,1',1',1',1'           (10)           0,2,4',2',1',2',1',1'           (1)           (1)           (1)           (1)           (1)           (1)           (1)           (1)           (1)           (1)           (1)           (2)           (2)           (1)           (1)           (2)           (1)<   
   
  | (12)<br>(8) (10) (2)<br>(9) (10) (2)<br>(4) (10) (2)<br>(4) (2)<br>(4) (2)<br>(10) (2) (2)<br>(10) (2) (3)<br>(10) (1) (1) (1)<br>(10) (1) (1) (1) (1) (1)<br>(10) (1) (1) (1) (1)<br>(10) (1) (1) (1) (1) (1) (1) (1)<br>(10) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1  | (14)<br>(14)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(6)<br>2/10, 32, 17, 4<br>(1)<br>(2)<br>(2)<br>(3)<br>(3)<br>(6)<br>2/10, 32, 17, 4<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2  | (2)<br>(2)<br>(3)<br>(4)<br>(5)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)<br>(3)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2               | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   | (1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)  |  | (1) (1) (1) (2) (2)<br>(2)<br>(2)<br>(1) (1/27, 28, 30, 2/1, 3<br>(2)<br>(1) (1/31, 22<br>(1) (1) (1)<br>(1) (1) (1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)   
   | 16         16.         3.25.         3.25.           22         24         (0)         7.28.         30.00         7.7 28.           (10)         (3)         (3)         (3)         (4)         (4)           (10)         (3)         (3)         (4)         (4)         (4)           (10)         (3)         (4)         (4)         (4)         (4)         (4)           (10)         (3)         (4)         (4)         (4)         (4)         (4)         (4)           (10)         (3)         (4) </td <td>(3)<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,2,1<br/>10/2,9,31<br/>10/2,2,1<br/>10/2,9,31<br/>10/2,2,1<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31</td> <td>(8) (1)<br/>12/14-77,<br/>12/23-74-77,<br/>12/25,<br/>12/23-74-77,<br/>12/15,<br/>12/23-74-77,<br/>12/15,<br/>12/23-74-77,<br/>12/15,<br/>12/23-74,<br/>(1)<br/>12/23-74,<br/>12/23-74,<br/>(1)<br/>12/23-74,<br/>(1)<br/>12/23-74,<br/>(1)<br/>12/23-74,<br/>(1)<br/>12/23-74,<br/>(1)<br/>12/23-74,<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)</td> <td>28-10<br/>11/12_<br/>21/3 (3) (<br/>21/3 (3) (<br/>21/3 (3) (<br/>21/3 (3) (<br/>22/5+10) (6) (1<br/>(3) (2) (4) (3) (7) (6) (1<br/>(3) (7) (4) (1<br/>(3) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7</td> <td>20,22, 2, 2<br/>7) (7)<br/>7) (7)<br/>70 (7)<br/>70 (7)<br/>70 (20)<br/>70 (20)<br/>70</td> <td>44.28 (2)<br/>578,99<br/>(2)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4</td> <td>-28<br/>-28<br/>-24<br/>24<br/>24<br/>26<br/>29<br/>-14<br/>-25<br/>28<br/>-17<br/>-14<br/>-25<br/>-28<br/>-17<br/>-14<br/>-14<br/>-14<br/>-14<br/>-14<br/>-14<br/>-14<br/>-14</td> <td></td> <td>97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           144.6         7.23           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30           7.4         0.37           4.0         0.20           4.0         3.70</td>   |
(3)<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,2,1<br>10/2,9,31<br>10/2,2,1<br>10/2,9,31<br>10/2,2,1<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31   | (8) (1)<br>12/14-77,<br>12/23-74-77,<br>12/25,<br>12/23-74-77,<br>12/15,<br>12/23-74-77,<br>12/15,<br>12/23-74-77,<br>12/15,<br>12/23-74,<br>(1)<br>12/23-74,<br>12/23-74,<br>(1)<br>12/23-74,<br>(1)<br>12/23-74,<br>(1)<br>12/23-74,<br>(1)<br>12/23-74,<br>(1)<br>12/23-74,<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)   | 28-10<br>11/12_<br>21/3 (3) (<br>21/3 (3) (<br>21/3 (3) (<br>21/3 (3) (<br>22/5+10) (6) (1<br>(3) (2) (4) (3) (7) (6) (1<br>(3) (7) (4) (1<br>(3) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7   | 20,22, 2, 2<br>7) (7)<br>7) (7)<br>70 (7)<br>70 (7)<br>70 (20)<br>70   | 44.28 (2)<br>578,99<br>(2)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4  
  | -28<br>-28<br>-24<br>24<br>24<br>26<br>29<br>-14<br>-25<br>28<br>-17<br>-14<br>-25<br>-28<br>-17<br>-14<br>-14<br>-14<br>-14<br>-14<br>-14<br>-14<br>-14 |                    | 97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           144.6         7.23           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30           7.4         0.37           4.0         0.20           4.0         3.70   |
| H                                       | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Sub Team Leader / Power System (2) Central Control Cont | Predecessor 2<br>Tomoyasu FUKUCHI 2<br>Successor 3<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yasuhiro SAKAMOTO 3<br>Hiroshi SUZUKI 4<br>Hisao TAOKA 4<br>Hisao TAOKA 4<br>Nationa ANABE 4<br>Predecessor 3<br>Anna MIYAURA 4<br>Successor 3  | Actual       Plan       Plan </td <td></td> <td>(5)<br/>(6)<br/>(4/5.9.1 24(4)<br/>(6)<br/>4/3-5.9.25 (5)<br/>(6)<br/>(6)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)</td> <td>(1)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>(2)<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)</td> <td>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)</td> <td>8/6,27<br/>(1,20 (2)<br/>30,31<br/>20 8/5,6<br/>(2) (2)</td> <td>10.9, [5]<br/>(2) (8<br/>(6)<br/>(6)<br/>(6)<br/>(72, 73<br/>(6)<br/>(72, 73<br/>(6)<br/>(72, 73<br/>(6)<br/>(72, 73<br/>(6)<br/>(72, 73<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)</td> <td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td>013,7,6,70,1,743           9,72,73,75,16 † 1,743           9,72,73,75,16 † 1,743           10,72,73,75,16 † 1,743           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           12,7           11,7</td> <td>(12)<br/>(8) (10) (2)<br/>(9) (10) (2)<br/>(4) (10) (2)<br/>(4) (2)<br/>(4) (2)<br/>(7) (2) (3)<br/>(7) (3)<br/>(7) (2) (3)<br/>(7) (7)<br/>(7) (7) (7)<br/>(7) (7)<br/>(7) (7) (7) (7)<br/>(7) (7) (7) (7)<br/>(7) (7) (7) (7)<br/>(7) (7) (7) (7) (7)<br/>(7) (7) (7) (7) (7)<br/>(7) (7) (7) (7) (7) (7)<br/>(7) (7) (7) (7) (7) (7) (7) (7) (7) (7)</td> <td>(14)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(4)<br/>(5)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7</td> <td>(2)<br/>(2)<br/>(3)<br/>(4)<br/>(5)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2</td> <td>(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)</td> <td>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)</td> <td></td> <td>(1) (1) (1) (2) (2)<br/>(2)<br/>(2)<br/>(1) (1/27, 28, 30, 2/1, 3<br/>(2)<br/>(2)<br/>(1) (1/31, 22<br/>(1) (1/31, 22</td> <td>16         18.         20.27.         13.25.           23         24         (0)         73.26.           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           5/27         5/4         /2         -           (11)         (1)         (1)         -           5/27         5/4         /2         -           (11)         (1)         (1)         -         -           (11)         (1)         -         -         -</td> <td>(3)<br/>10/2 9.31<br/>10/2 9.31<br/>10/2 9.31<br/>10/2 (2) 9<br/>10/20, 11/1.<br/>10/2 9.31<br/>10/2 (2) 9<br/>10/20, 11/1.<br/>10/2 4, 12<br/>(14) (5) (6)<br/>(17) (2)<br/>(17) (2)<br/>10/14, 19, (3)<br/>(17) (2)<br/>(3)<br/>(1) (1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(3)<br/>(3)<br/>(1)<br/>(3)<br/>(3)<br/>(1)<br/>(3)<br/>(3)<br/>(1)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3</td> <td>(8) (1)<br/>12/14-77,<br/>12/23-74-77,<br/>12/25,<br/>12/23-74-77,<br/>12/15,<br/>12/23-74-77,<br/>12/15,<br/>12/23-74-77,<br/>12/15,<br/>12/23-74,<br/>(1)<br/>12/23-74,<br/>12/23-74,<br/>(1)<br/>12/23-74,<br/>(1)<br/>12/23-74,<br/>(1)<br/>12/23-74,<br/>(1)<br/>12/23-74,<br/>(1)<br/>12/23-74,<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)</td> <td>28-10<br/>11/12_<br/>21/3 (3) (<br/>21/3 (3) (<br/>21/3 (3) (<br/>21/3 (3) (<br/>22/5+10) (6) (1<br/>(3) (2) (4) (3) (7) (6) (1<br/>(3) (7) (4) (1<br/>(3) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7</td> <td>20,22, 2, 2<br/>7) (7)<br/>7) (7)<br/>70 (7)<br/>70 (7)<br/>70 (20)<br/>70 (20)<br/>70</td> <td>44.28 (2)<br/>578,99<br/>(2)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4</td> <td>-28<br/>-28<br/>-24<br/>24<br/>24<br/>26<br/>29<br/>-14<br/>-25<br/>28<br/>-17<br/>-14<br/>-25<br/>-28<br/>-17<br/>-14<br/>-14<br/>-14<br/>-14<br/>-14<br/>-14<br/>-14<br/>-14</td> <td></td> <td>97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30           7.4         0.37           4.0         0.20           74.0         3.70           74.0         3.70</td>  |                                       | (5)<br>(6)<br>(4/5.9.1 24(4)<br>(6)<br>4/3-5.9.25 (5)<br>(6)<br>(6)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7) |
(1)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>(2)<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2) | (3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)  | 8/6,27<br>(1,20 (2)<br>30,31<br>20 8/5,6<br>(2) (2) | 10.9, [5]<br>(2) (8<br>(6)<br>(6)<br>(6)<br>(72, 73<br>(6)<br>(72, 73<br>(6)<br>(72, 73<br>(6)<br>(72, 73<br>(6)<br>(72, 73<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)   
   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                              | 013,7,6,70,1,743           9,72,73,75,16 † 1,743           9,72,73,75,16 † 1,743           10,72,73,75,16 † 1,743           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           12,7           11,7  
   
  | (12)<br>(8) (10) (2)<br>(9) (10) (2)<br>(4) (10) (2)<br>(4) (2)<br>(4) (2)<br>(7) (2) (3)<br>(7) (3)<br>(7) (2) (3)<br>(7) (7)<br>(7) (7) (7)<br>(7) (7)<br>(7) (7) (7) (7)<br>(7) (7) (7) (7)<br>(7) (7) (7) (7)<br>(7) (7) (7) (7) (7)<br>(7) (7) (7) (7) (7)<br>(7) (7) (7) (7) (7) (7)<br>(7) (7) (7) (7) (7) (7) (7) (7) (7) (7)  | (14)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(4)<br>(4)<br>(5)<br>(2)<br>(2)<br>(3)<br>(3)<br>(4)<br>(4)<br>(5)<br>(4)<br>(5)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7   | (2)<br>(2)<br>(3)<br>(4)<br>(5)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)<br>(3)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2               | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   | (1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)  |  | (1) (1) (1) (2) (2)<br>(2)<br>(2)<br>(1) (1/27, 28, 30, 2/1, 3<br>(2)<br>(2)<br>(1) (1/31, 22<br>(1) (1/31, 22   | 16         18.         20.27.         13.25.           23         24         (0)         73.26.           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           5/27         5/4         /2         -           (11)         (1)         (1)         -           5/27         5/4         /2         -           (11)         (1)         (1)         -         -           (11)         (1)         -         -         -  
   | (3)<br>10/2 9.31<br>10/2 9.31<br>10/2 9.31<br>10/2 (2) 9<br>10/20, 11/1.<br>10/2 9.31<br>10/2 (2) 9<br>10/20, 11/1.<br>10/2 4, 12<br>(14) (5) (6)<br>(17) (2)<br>(17) (2)<br>10/14, 19, (3)<br>(17) (2)<br>(3)<br>(1) (1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(3)<br>(3)<br>(1)<br>(3)<br>(3)<br>(1)<br>(3)<br>(3)<br>(1)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3   
  | (8) (1)<br>12/14-77,<br>12/23-74-77,<br>12/25,<br>12/23-74-77,<br>12/15,<br>12/23-74-77,<br>12/15,<br>12/23-74-77,<br>12/15,<br>12/23-74,<br>(1)<br>12/23-74,<br>12/23-74,<br>(1)<br>12/23-74,<br>(1)<br>12/23-74,<br>(1)<br>12/23-74,<br>(1)<br>12/23-74,<br>(1)<br>12/23-74,<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)   | 28-10<br>11/12_<br>21/3 (3) (<br>21/3 (3) (<br>21/3 (3) (<br>21/3 (3) (<br>22/5+10) (6) (1<br>(3) (2) (4) (3) (7) (6) (1<br>(3) (7) (4) (1<br>(3) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7   | 20,22, 2, 2<br>7) (7)<br>7) (7)<br>70 (7)<br>70 (7)<br>70 (20)<br>70   | 44.28 (2)<br>578,99<br>(2)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4   | -28<br>-28<br>-24<br>24<br>24<br>26<br>29<br>-14<br>-25<br>28<br>-17<br>-14<br>-25<br>-28<br>-17<br>-14<br>-14<br>-14<br>-14<br>-14<br>-14<br>-14<br>-14 |                    | 97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30           7.4         0.37           4.0    
    0.20           74.0         3.70           74.0         3.70  |
| H 0 H 4 H 4 H 4 H 4 H 4 H 4 H 4 H 4 H 4 | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Renewable Energy Energy Efficiency Grid Stabilization Grid Stabilization Desel / Gas-turbine Power Plant / Coordination Human Resource Development / Monitoring Human Resource Development / Monitoring   | Predecessor 7<br>Tomoyasu FUKUCHI 2<br>Successor 7<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yasuhiro SAKAMOTO 3<br>Hiroshi SUZUKI 4<br>Hisao TAOKA 4<br>Hisao TAOKA 4<br>Predecessor 7<br>Anna MIYAURA 4<br>Successor 1<br>Hiroaki NIIMI 4  | Actual       Plan       Plan       Actual       Plan       Actual  
  |                                       | (5)<br>(6)<br>(4/5.9.1 24(4)<br>(6)<br>4/3-5.9.25 (5)<br>(6)<br>(6)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7) | (1)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>(2)<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2) | (3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)  | 8/6,27<br>(1,20 (2)<br>30,31<br>20 8/5,6<br>(2) (2) | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   
   
   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                              | 0         3,7,8,7,6         1,7,8           9         7,2,7,3,7,5,6         1,7,7           (1)         (2)         2,2,2,7,2,7,1,4           (1)         (2)         2,2,2,7,2,7,1,4           (1)         (2)         2,2,2,7,2,7,1,4           (1)         (3)         (8)           (1)         (3)         (8)           (1)         (3)         (8)           (10)         1         1           (10)         1         8/18           (10)         1         12,2,8,17           (10)         11/2,8,8,17         1           (10)         11/2,8,8,17         1           (10)         11/2,8,8,17         1           (10)         7/2,8,12         8/18,24           (11)         1         6/4,0,7,31         2/2           (10)         7/2,13,10,12         2/2           (10)         7/2,13,10,12         1           (11)         1         1           (11)         1         1           (12)         1         1           (10)         7/2,13,13,10,14         1           (11)         1         1           (11) <td>(12)<br/>(8) (10) (2)<br/>(8) (10) (2)<br/>(4) (7) (2)<br/>(4) (7) (2)<br/>(7) (7) (1) (2)<br/>(7) (7) (7) (7) (7)<br/>(7) (7) (7) (7) (7) (7) (7)<br/>(7) (7) (7) (7) (7) (7) (7)<br/>(7) (7) (7) (7) (7) (7) (7) (7) (7)<br/>(7) (7) (7) (7) (7) (7) (7) (7) (7) (7)</td> <td>(14)<br/>(8,9,1<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(4)<br/>(4)<br/>(5)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7</td> <td>(2)<br/>(3)<br/>(4)<br/>(5)<br/>(5)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3</td> <td>(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)</td> <td>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)</td> <td></td> <td>(1) (1) (1) (2) (2)<br/>(2)<br/>(2)<br/>(1) (1/27, 28, 30, 2/1, 3<br/>(2)<br/>(1) (1/31, 22<br/>(1) (1) (1)<br/>(1) (1) (1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)</td> <td>16         18.         20.27.         13.25.           23         24         (0)         73.26.           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           5/27         5/4         /2         -           (11)         (1)         (1)         -           5/27         5/4         /2         -           (11)         (1)         (1)         -         -           (11)         (1)         -         -         -</td>
<td>(3)<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,2,1<br/>10/2,9,31<br/>10/2,2,1<br/>10/2,9,31<br/>10/2,2,1<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31<br/>10/2,9,31</td> <td>(8) (1)<br/>12/14-77,<br/>12/23-74-77,<br/>12/25,<br/>12/23-74-77,<br/>12/15,<br/>12/23-74-77,<br/>12/15,<br/>12/23-74-77,<br/>12/15,<br/>12/23-74,<br/>(1)<br/>12/23-74,<br/>12/23-74,<br/>(1)<br/>12/23-74,<br/>(1)<br/>12/23-74,<br/>(1)<br/>12/23-74,<br/>(1)<br/>12/23-74,<br/>(1)<br/>12/23-74,<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)</td> <td>28-10<br/>11/12_<br/>21/3 (3) (<br/>21/3 (3) (<br/>21/3 (3) (<br/>21/3 (3) (<br/>22/5+10) (6) (1<br/>(3) (2) (4) (3) (7) (6) (1<br/>(3) (7) (4) (1<br/>(3) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7</td> <td>0, 22, 22, 23<br/>7) (7)<br/>7) (7)<br/>7) (7)<br/>70 (7)<br/>70 (7)<br/>70 (7)<br/>70 (7)<br/>70 (7)<br/>70 (7)<br/>70 (7)<br/>70 (7)<br/>70 (20)<br/>70 (20)<br/>70</td> <td>44-28(2)<br/>578,99<br/>(2)<br/>4-33-7,10-<br/>(9)17-21,24<br/>■ 571-4<br/>(4)<br/>■ 571-4<br/>(2)17-21,24<br/>■ 571-4<br/>(3)17-21,24<br/>■ 571-4<br/>(4)-7,1<br/>(4)19-20,1<br/>■ 571-2<br/>(2,4)<br/>■ 571-2<br/>(2,4)2-2<br/>(2,4)<br/>■ 571-4<br/>(2)19-20,1<br/>■ 572-7<br/>(3)19-20,1<br/>■ 572-7<br/>(4)19-20,1<br/>■ 572-7<br/>(4)19-20,1</td> <td>-28<br/>-28<br/>-24<br/>24<br/>24<br/>26<br/>29<br/>-14<br/>-25<br/>28<br/>-17<br/>-14<br/>-25<br/>-28<br/>-17<br/>-14<br/>-14<br/>-14<br/>-14<br/>-14<br/>-14<br/>-14<br/>-14</td> <td></td> <td>97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           115.4         5.77           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30           7.4         0.37           4.0         0.20           74.0         3.70           74.0         3.70           50.0         2.50</td>   | (12)<br>(8) (10) (2)<br>(8) (10) (2)<br>(4) (7) (2)<br>(4) (7) (2)<br>(7) (7) (1) (2)<br>(7) (7) (7) (7) (7)<br>(7) (7) (7) (7) (7) (7) (7)<br>(7) (7) (7) (7) (7) (7) (7)<br>(7) (7) (7) (7) (7) (7) (7) (7) (7)<br>(7) (7) (7) (7) (7) (7) (7) (7) (7) (7)   | (14)<br>(8,9,1<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(4)<br>(4)<br>(4)<br>(5)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7  
   | (2)<br>(3)<br>(4)<br>(5)<br>(5)<br>(2)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3  | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   | (1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)  |  | (1) (1) (1) (2) (2)<br>(2)<br>(2)<br>(1) (1/27, 28, 30, 2/1, 3<br>(2)<br>(1) (1/31, 22<br>(1) (1) (1)<br>(1) (1) (1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)   | 16         18.         20.27.         13.25.           23         24         (0)         73.26.           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           5/27         5/4         /2         -           (11)         (1)         (1)         -           5/27         5/4         /2         -           (11)         (1)         (1)         -         -           (11)         (1)         -         -         -   
  | (3)<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,2,1<br>10/2,9,31<br>10/2,2,1<br>10/2,9,31<br>10/2,2,1<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31<br>10/2,9,31   
   | (8) (1)<br>12/14-77,<br>12/23-74-77,<br>12/25,<br>12/23-74-77,<br>12/15,<br>12/23-74-77,<br>12/15,<br>12/23-74-77,<br>12/15,<br>12/23-74,<br>(1)<br>12/23-74,<br>12/23-74,<br>(1)<br>12/23-74,<br>(1)<br>12/23-74,<br>(1)<br>12/23-74,<br>(1)<br>12/23-74,<br>(1)<br>12/23-74,<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)   | 28-10<br>11/12_<br>21/3 (3) (<br>21/3 (3) (<br>21/3 (3) (<br>21/3 (3) (<br>22/5+10) (6) (1<br>(3) (2) (4) (3) (7) (6) (1<br>(3) (7) (4) (1<br>(3) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7   | 0, 22, 22, 23<br>7) (7)<br>7) (7)<br>7) (7)<br>70 (7)<br>70 (7)<br>70 (7)<br>70 (7)<br>70 (7)<br>70 (7)<br>70 (7)<br>70 (7)<br>70 (20)<br>70   | 44-28(2)<br>578,99<br>(2)<br>4-33-7,10-<br>(9)17-21,24<br>■ 571-4<br>(4)<br>■ 571-4<br>(2)17-21,24<br>■ 571-4<br>(3)17-21,24<br>■ 571-4<br>(4)-7,1<br>(4)19-20,1<br>■ 571-2<br>(2,4)<br>■ 571-2<br>(2,4)2-2<br>(2,4)<br>■ 571-4<br>(2)19-20,1<br>■ 572-7<br>(3)19-20,1<br>■ 572-7<br>(4)19-20,1<br>■ 572-7<br>(4)19-20,1   | -28<br>-28<br>-24<br>24<br>24<br>26<br>29<br>-14<br>-25<br>28<br>-17<br>-14<br>-25<br>-28<br>-17<br>-14<br>-14<br>-14<br>-14<br>-14<br>-14<br>-14<br>-14 |                    | 97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           115.4         5.77           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30           7.4         0.37           4.0         0.20           74.0         3.70           74.0         3.70           50.0         2.50   |
| H 0                                     | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Renewable Energy Energy Efficiency Grid Stabilization Grid Stabilization Dese/ / Gas-turbine Power Plant / Coordination Human Resource Development / Monitoring Human Resource Development / Monitoring Grid Stabilization (2) / Power Storage System / Asset Management / Coordination (2)   | Predecessor 2<br>Tomoyasu FUKUCHI 2<br>Successor 3<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yasuhiro SAKAMOTO 3<br>Hiroshi SUZUKI 4<br>Hisao TAOKA 4<br>Hisao TAOKA 4<br>Nationa ANABE 4<br>Predecessor 3<br>Anna MIYAURA 4<br>Successor 3  | Actual       Plan       Plan </td <td></td> <td>(5)<br/>(6)<br/>(4/5.9.1 24(4)<br/>(6)<br/>4/3-5.9.25 (5)<br/>(6)<br/>(6)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)</td> <td>(1)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>(2)<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)</td> <td>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)</td> <td>8/6,27<br/>(1,20 (2)<br/>30,31<br/>20 8/5,6<br/>(2) (2)</td> <td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td>013,74,76,71,748           9,72,73,75,16 † 1,748           9,72,73,75,16 † 1,748           10,72,73,75,16 † 1,748           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           12,7           11,7</td> <td>(12)         (11)         (12)           (8)         (10)         (2)           1         1         (2)           1         12/7.141         (2)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/12.18         (8)         (12)           12/15.20.4/2.63         (20)           15         (10)         (10)           (2)         11/15         (12)           (2)         11/15         (2)           (2)         11/16         (2)           (2)         11/12         (2)           (2)         (11)         (9)           (4)         (2)         (2)           (2)         (11)         (9)           (4)</td> <td>(14)<br/>(8,9,1<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(4)<br/>(4)<br/>(5)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7</td> <td>(2)<br/>(3)<br/>(4)<br/>(5)<br/>(5)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3</td> <td>(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)</td> <td>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)</td> <td></td> <td>(1) (1) (2) (2)<br/>1/27, 28, 30, 2/1, 3<br/>(2)<br/>(1)<br/>(2)<br/>(1)<br/>(1)<br/>(2)<br/>(1)<br/>(1)<br/>(2)<br/>(1)<br/>(2)<br/>(1)<br/>(2)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2</td> <td>16         18.         20.27.         13.25.           22.4 (0)         (7).28.         30.(0)         7 28.           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           5/27         5/4         7/4         8/           (10)         (1)         (1)         (1)         (1)           (11)         (1)         (1)         (1)         -           (2)         (2)         -         -         -           (2)         (2)         -         -         -</td> <td>(3)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,</td> <td>(8) (1<br/>12/14-77, 19.20, 11/19.20,
11/19.20, 1</td> <td>28-10<br/>11/2_<br/>21/3 (3) (<br/>22, 2)<br/>13 (3) 2,<br/>22, 2, 4<br/>13 (3) 2,<br/>13 (3) 2,</td> <td>0, 22, 22, 23<br/>7) (7)<br/>7) (7)<br/>70 (7)<br/>70 (7)<br/>70 (20)<br/>70 (20</td> <td>44-28 (2)<br/>578,99<br/>(2)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5</td> <td>-28<br/>-28<br/>-28<br/>-24<br/>-26<br/>-29<br/>-26<br/>-29<br/>-14<br/>-14<br/>-14<br/>-14<br/>-14<br/>-14<br/>-14<br/>-14<br/>-14<br/>-14</td> <td></td> <td>97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30           7.4         0.37           4.0         0.20           74.0         3.70           74.0         3.70</td>   |                                       | (5)<br>(6)<br>(4/5.9.1 24(4)<br>(6)<br>4/3-5.9.25 (5)<br>(6)<br>(6)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7) | (1)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>(2)<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2) | (3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)  | 8/6,27<br>(1,20 (2)<br>30,31<br>20 8/5,6<br>(2) (2) | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   
   
   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                              | 013,74,76,71,748           9,72,73,75,16 † 1,748           9,72,73,75,16 † 1,748           10,72,73,75,16 † 1,748           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           11,7           12,7           11,7  
  | (12)         (11)         (12)           (8)         (10)         (2)           1         1         (2)           1         12/7.141         (2)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/12.18         (8)         (12)           12/15.20.4/2.63         (20)           15         (10)         (10)           (2)         11/15         (12)           (2)         11/15         (2)           (2)         11/16         (2)           (2)         11/12         (2)           (2)         (11)         (9)           (4)         (2)         (2)           (2)         (11)         (9)           (4)  | (14)<br>(8,9,1<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(4)<br>(4)<br>(4)<br>(5)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7  | (2)<br>(3)<br>(4)<br>(5)<br>(5)<br>(2)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3  | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   |
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| H                                       | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Sub Team Leader / Power System (2) Central Control Cont | Predecessor<br>Tomoyasu FUKUCHI 2<br>Successor<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yasuhiro SAKAMOTO 3<br>Hiroshi SUZUKI 4<br>Hisao TAOKA 4<br>Hisao TAOKA 4<br>Hisao TAOKA 4<br>Predecessor<br>Takahiro TANABE 4<br>Predecessor<br>Anna MIYAURA 4<br>Successor<br>Hiroaki NIIMI 4<br>Aditional Expert,   | Actual       Plan       Plan </td <td></td> <td>(5)<br/>(6)<br/>(4/5.9.1 24(4)<br/>(6)<br/>4/3-5.9.25 (5)<br/>(6)<br/>(6)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)</td> <td>(1)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>(2)<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>5-9,10<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)</td> <td>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)</td> <td>8/6,27<br/>(1,20 (2)<br/>30,31<br/>20 8/5,6<br/>(2) (2)</td> <td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td>013,7,6,10,143           9,12,7,13,15,16 ±1,114           101           110           111           111           111           111           111           111           111           111           111           112           113           114           117, (10)           110           111           112           113           114           115           110           111      <tr< td=""><td>(12)         (11)         (12)           (8)         (10)         (2)           1         1         (2)           1         12/7.141         (2)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/12.18         (8)         (12)           12/15.20.44.26.3         (20)           15         (10)         (10)           (2)         11/15         11/2/15           (2)         11/16         11/2/15           (2)         11/16         11/2/15           (2)         11/12         (2)           (2)         11/12         (2)           (2)         (11)         (9)           (4)         20         (2)</td><td>(14)<br/>(14)<br/>(28,9,1<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(2)<br/>(2)<br/>(3)<br/>(4)<br/>(2)<br/>(3)<br/>(5)<br/>(7)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(5)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(5)<br/>(2)<br/>(3)<br/>(5)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(4)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2</td><td>(2)<br/>(3)<br/>(4)<br/>(5)<br/>(5)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3</td><td>(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)</td><td>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)</td><td></td><td>(1) (1) (2) (2)<br/>1/27, 28, 30, 2/1, 3<br/>(2)<br/>(1)<br/>(2)<br/>(1)<br/>(1)<br/>(2)<br/>(1)<br/>(1)<br/>(2)<br/>(1)<br/>(2)<br/>(1)<br/>(2)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2</td><td>16         18.         20.27.         13.25.           22.4 (0)         (7).28.         30.(0)         7 28.           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   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                              | 013,7,6,10,143           9,12,7,13,15,16 ±1,114           101           110           111           111           111           111           111           111           111           111           111           112           113           114           117, (10)           110           111           112           113           114           115           110           111 <tr< td=""><td>(12)         (11)         (12)           (8)         (10)         (2)           1         1         (2)           1         12/7.141         (2)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1       
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115.4         5.77           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30           7.4         0.37           4.0         0.20           74.0         3.70           74.0         3.70           50.0         2.50</td></tr<>  | (12)         (11)         (12)           (8)         (10)         (2)           1         1         (2)           1         12/7.141         (2)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1        
(12)           11/2.18         (8)         (12)           10/91         1         (12)           11/12.18         (8)         (12)           12/15.20.44.26.3         (20)           15         (10)         (10)           (2)         11/15         11/2/15           (2)         11/16         11/2/15           (2)         11/16         11/2/15           (2)         11/12         (2)           (2)         11/12         (2)           (2)         (11)         (9)           (4)         20         (2)  | (14)<br>(14)<br>(28,9,1<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(4)<br>(2)<br>(2)<br>(3)<br>(4)<br>(2)<br>(3)<br>(5)<br>(7)<br>(2)<br>(3)<br>(3)<br>(4)<br>(2)<br>(2)<br>(3)<br>(3)<br>(4)<br>(5)<br>(2)<br>(3)<br>(3)<br>(4)<br>(5)<br>(2)<br>(3)<br>(5)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(4)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2 | (2)<br>(3)<br>(4)<br>(5)<br>(5)<br>(2)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3  | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   | (1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)  |  | (1) (1) (2) (2)<br>1/27, 28, 30, 2/1, 3<br>(2)<br>(1)<br>(2)<br>(1)<br>(1)<br>(2)<br>(1)<br>(1)<br>(2)<br>(1)<br>(2)<br>(1)<br>(2)<br>(1)<br>(2)<br>(2)<br>(2)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2   | 16         18.         20.27.         13.25.           22.4 (0)         (7).28.         30.(0)         7 28.           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           5/27         5/4         7/4         8/           (10)         (1)         (1)         (1)         (1)           (11)         (1)         (1)         (1)         -           (2)         (2)         -         -         -           (2)         (2)         -         -         -  
   
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| H                                       | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Sub Team Leader / Power System (2) Control Cont | Predecessor<br>Tomoyasu FUKUCHI 2<br>Successor<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yasuhiro SAKAMOTO 3<br>Hiroshi SUZUKI 4<br>Hiroshi SUZUKI 4<br>Hisao TAOKA 4<br>Hisao TAOKA 4<br>National Superities 4<br>Predecessor<br>Anna MIYAURA 4<br>Successor<br>Hiroaki NIIMI 4<br>Aditional Expert, 5<br>Aditional Expert, 5<br>Comoaki TSUJI 5                                     | Actual       Plan       Plan       Plan       Plan       Plan       Plan       Plan       Plan       Plan       Actual       Plan       Plan       Actual       <  
  |                                       | (5)<br>(6)<br>(4/5.9.1 24(4)<br>(6)<br>4/3-5.9.25 (5)<br>(6)<br>(6)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7) | (1)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>(2)<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2) | (3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)  | 8/6,27<br>(1,20 (2)<br>30,31<br>20 8/5,6<br>(2) (2) | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   
   
   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                              | 013,7,6,10,143           9,12,7,13,15,16 ±1,114           101           110           111           111           111           111           111           111           111           111           111           112           113           114           117, (10)           110           111           112           113           114           115           110           111 <tr< td=""><td>(12)         (11)         (12)           (8)         (10)         (2)           1         1         (2)           1         12/7.141         (2)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/12.18         (8)         (12)           12/15.20.44.26.3         (20)           15         (10)         (10)           (2)         11/15         11/2/15           (2)         11/16         11/2/15           (2)         11/16         11/2/15           (2)         11/12         (2)           (2)         11/12         (2)           (2)         (11)         (9)           (4)         20         (2)</td><td>(14)<br/>(14)<br/>(28,9,1<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(2)<br/>(2)<br/>(3)<br/>(4)<br/>(2)<br/>(3)<br/>(5)<br/>(7)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(5)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(5)<br/>(2)<br/>(3)<br/>(5)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(4)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2</td><td>(2)<br/>(3)<br/>(4)<br/>(5)<br/>(5)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3</td><td>(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)</td><td>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)</td><td></td><td>(1) (1) (2) (2)<br/>1/27, 28, 30, 2/1, 3<br/>(2)<br/>(1)<br/>(2)<br/>(1)<br/>(1)<br/>(2)<br/>(1)<br/>(1)<br/>(2)<br/>(1)<br/>(2)<br/>(1)<br/>(2)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2</td><td>16         18.         20.27.         13.25.           22.4 (0)         (7).28.         30.(0)         7 28.           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           5/27         5/4         7/4         8/           (10)         (1)         (1)         (1)         (1)           (11)         (1)         (1)         (1)         -           (2)         (2)         -         -         -           (2)         (2)         -         -        
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| H                                       | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Sub Team Leader / Power System (2) Control Cont | Predecessor 7<br>Tornoyasu FUKUCHI 2<br>Successor 7<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yasuhiro SAKAMOTO 3<br>Hiroshi SUZUKI 4<br>Hisao TAOKA 4<br>Hisao TAOKA 4<br>Hisao TAOKA 4<br>Predecessor 7<br>Anna MIYAURA 4<br>Successor 8<br>Hiroaki NIIMI 4<br>Aditional Expert, 9<br>Predecessor 1<br>Hiroaki NIIMI 4<br>Aditional Expert, 9<br>Tomoaki TSUJI 5 | Actual       Plan       Plan       Plan       Plan       Plan       Plan       Plan       Plan       Plan       Actual       Plan       Plan       Actual       <  
  |                                       | (5)<br>(6)<br>(4/5.9.1 24(4)<br>(6)<br>4/3-5.9.25 (5)<br>(6)<br>(6)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7) | (1)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>(2)<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2) | (3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)  | 8/6,27<br>(1,20 (2)<br>30,31<br>20 8/5,6<br>(2) (2) | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   
   
   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                              | 013,7,6,10,143           9,12,7,13,15,16 ±1,114           101           110           111           111           111           111           111           111           111           111           111           112           113           114           117, (10)           110           111           112           113           114           115           110           111 <tr< td=""><td>(12)         (11)         (12)           (8)         (10)         (2)           1         1         (2)           1         12/7.141         (2)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/12.18         (8)         (12)           12/15.20.44.26.3         (20)           15         (10)         (10)           (2)         11/15         11/2/15           (2)         11/16         11/2/15           (2)         11/16         11/2/15           (2)         11/12         (2)           (2)         11/12         (2)           (2)         (11)         (9)           (4)         20         (2)</td><td>(14)<br/>(14)<br/>(28,9,1<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(2)<br/>(2)<br/>(3)<br/>(4)<br/>(2)<br/>(3)<br/>(5)<br/>(7)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(5)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(5)<br/>(2)<br/>(3)<br/>(5)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(4)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2</td><td>(2)<br/>(3)<br/>(4)<br/>(5)<br/>(5)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3</td><td>(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)</td><td>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)</td><td></td><td>(1) (1) (2) (2)<br/>1/27, 28, 30, 2/1, 3<br/>(2)<br/>(1)<br/>(2)<br/>(1)<br/>(1)<br/>(2)<br/>(1)<br/>(1)<br/>(2)<br/>(1)<br/>(2)<br/>(1)<br/>(2)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2</td><td>16         18.         20.27.         13.25.           23         24         (0)         73.26.           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           5/27         5/4         /2         -           (11)         (1)         (1)         -           5/27         5/4         /2         -           (11)         (1)         (1)         -         -           (11)         (1)         -         -        
-</td><td>(3)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,</td><td>(8) (1<br/>12/14-77, 19.20, 11/19.20, 1</td><td>28-10<br/>11/2_<br/>21/3 (3) (<br/>22, 2)<br/>13 (3) 2,<br/>22, 2, 4<br/>13 (3) 2,<br/>13 (3) 2,</td><td>0, 22, 22, 23<br/>7) (7)<br/>7) (7)<br/>70 (7)<br/>70 (7)<br/>70 (20)<br/>70 (20</td><td>44-28 (2)<br/>578,99<br/>(2)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5</td><td>-23<br/>-23<br/>-23<br/>-24<br/>-25<br/>-25<br/>-25<br/>-25<br/>-25<br/>-25<br/>-25<br/>-25</td><td></td><td>97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           144.6         7.23           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30           7.4         0.37           4.0         0.20           74.0         3.70           74.0         3.70           50.0         2.50           50.0         2.50           85.6         4.28           84.2         4.21</td></tr<>  | (12)         (11)         (12)           (8)         (10)         (2)           1         1         (2)           1         12/7.141         (2)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/12.18         (8)         (12)           12/15.20.44.26.3         (20)           15         (10)         (10)           (2)         11/15         11/2/15           (2)         11/16         11/2/15           (2)         11/16         11/2/15           (2)         11/12         (2)           (2)         11/12         (2)           (2)         (11)         (9)           (4)         20         (2)  |
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| H                                       | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Sub Team Leader / Power System (2) Control Cont | Predecessor<br>Tomoyasu FUKUCHI 2<br>Successor<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yasuhiro SAKAMOTO 3<br>Hiroshi SUZUKI 4<br>Hiroshi SUZUKI 4<br>Hisao TAOKA 4<br>Hisao TAOKA 4<br>National Superities 4<br>Predecessor<br>Anna MIYAURA 4<br>Successor<br>Hiroaki NIIMI 4<br>Aditional Expert, 5<br>Aditional Expert, 5<br>Comoaki TSUJI 5                                     | Actual       Plan       Plan       Plan       Plan       Plan       Plan       Plan       Plan       Plan       Actual       Plan       Plan       Actual       <  
  |                                       | (5)<br>(6)<br>(4/5.9.1 24(4)<br>(6)<br>4/3-5.9.25 (5)<br>(6)<br>(6)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7) | (1)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>(2)<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2) | (3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)  | 8/6,27<br>(1,20 (2)<br>30,31<br>20 8/5,6<br>(2) (2) | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   
   
   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                              | 013,7,6,10,143           9,12,7,13,15,16 ±1,114           101           110           111           111           111           111           111           111           111           111           111           112           113           114           117, (10)           110           111           112           113           114           115           110           111 <tr< td=""><td>(12)         (11)         (12)           (8)         (10)         (2)           1         1         (2)           1         12/7.141         (2)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/12.18         (8)         (12)           12/15.20.44.26.3         (20)           15         (10)         (10)           (2)         11/15         11/2/15           (2)         11/16         11/2/15           (2)         11/16         11/2/15           (2)         11/12         (2)           (2)         11/12         (2)           (2)         (11)         (9)           (4)         20         (2)</td><td>(14)<br/>(14)<br/>(28,9,1<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(2)<br/>(2)<br/>(3)<br/>(4)<br/>(2)<br/>(3)<br/>(5)<br/>(7)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(5)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(5)<br/>(2)<br/>(3)<br/>(5)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(4)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2</td><td>(2)<br/>(3)<br/>(4)<br/>(5)<br/>(5)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3</td><td>(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)</td><td>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)</td><td></td><td>(1) (1) (2) (2)<br/>1/27, 28, 30, 2/1, 3<br/>(2)<br/>(1)<br/>(2)<br/>(1)<br/>(1)<br/>(2)<br/>(1)<br/>(1)<br/>(2)<br/>(1)<br/>(2)<br/>(1)<br/>(2)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2</td><td>16         18.         20.27.         13.25.           22.4 (0)         (7).28.         30.(0)         7 28.           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           5/27         5/4         7/4         8/           (10)         (1)         (1)         (1)         (1)           (11)         (1)         (1)         (1)         -           (2)         (2)         -         -         -           (2)         (2)         -         -        
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(1<br/>12/14-77, 19.20, 11/19.20, 1</td><td>28-10<br/>11/2_<br/>21/3 (3) (<br/>22, 2)<br/>13 (3) 2,<br/>22, 2, 4<br/>13 (3) 2,<br/>13 (3) 2,</td><td>20, 22, 22, 32<br/>7) (7)<br/>7) (7)<br/>7) (7)<br/>7) (7)<br/>70 (7)<br/>70(7)<br/>70 (7)<br/>70 (7)</td><td>44.28(2)<br/>578,9<br/>(2)<br/>578,9<br/>(3)<br/>17,21,24<br/>(4)<br/>571-4<br/>(4)<br/>571-4<br/>(4)<br/>571-4<br/>(5)<br/>17,21,24<br/>(4)<br/>51,72,24<br/>(5)<br/>17,21,24<br/>(4)<br/>51,72,24<br/>(5)<br/>17,21,24<br/>(4)<br/>51,72,24<br/>(5)<br/>17,21,24<br/>(4)<br/>51,72,24<br/>(5)<br/>14,20,7<br/>(2,4)<br/>14,20,7<br/>(2,4)<br/>14,20,7<br/>(2,4)<br/>51,72,24<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(5)<br/>(2,4)<br/>(2,4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(2)<br/>(5)<br/>(2,4)<br/>(2)<br/>(4)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2</td><td>-28<br/>-28<br/>-24<br/>-24<br/>24<br/>26.29<br/>-7<br/>-7<br/>-7<br/>-7<br/>-7<br/>-7<br/>-7<br/>-7<br/>-7<br/>-7</td><td></td><td>97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           115.4         7.23           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30           7.4         0.37           4.0         0.20           7.4         3.70           7.40         3.70           5.50         2.80           6.50         2.80           7.40         3.70           7.40         3.70           5.500         2.50           8.5.6         4.28           84.2         4.21           Plan         <b>786.2 39.31</b></td></tr<>  | (12)         (11)         (12)           (8)         (10)         (2)           1         1         (2)           1         12/7.141         (2)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/12.18         (8)         (12)           12/15.20.44.26.3         (20)           15         (10)         (10)           (2)         11/15         11/2/15           (2)         11/16         11/2/15           (2)         11/16         11/2/15           (2)         11/12         (2)           (2)         11/12         (2)           (2)         (11)         (9)           (4)         20         (2)  |
(14)<br>(14)<br>(28,9,1<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(4)<br>(2)<br>(2)<br>(3)<br>(4)<br>(2)<br>(3)<br>(5)<br>(7)<br>(2)<br>(3)<br>(3)<br>(4)<br>(2)<br>(2)<br>(3)<br>(3)<br>(4)<br>(5)<br>(2)<br>(3)<br>(3)<br>(4)<br>(5)<br>(2)<br>(3)<br>(5)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(4)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2 | (2)<br>(3)<br>(4)<br>(5)<br>(5)<br>(2)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3  | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   | (1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)  |  | (1) (1) (2) (2)<br>1/27, 28, 30, 2/1, 3<br>(2)<br>(1)<br>(2)<br>(1)<br>(1)<br>(2)<br>(1)<br>(1)<br>(2)<br>(1)<br>(2)<br>(1)<br>(2)<br>(1)<br>(2)<br>(2)<br>(2)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2   | 16         18.         20.27.         13.25.           22.4 (0)         (7).28.         30.(0)         7 28.           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           5/27         5/4         7/4         8/           (10)         (1)         (1)         (1)         (1)           (11)         (1)         (1)         (1)         -           (2)         (2)         -         -         -           (2)         (2)         -         -         -   
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| H                                       | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Sub Team Leader / Power System (2) Control Cont | Predecessor<br>Tomoyasu FUKUCHI 2<br>Successor<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yasuhiro SAKAMOTO 3<br>Hiroshi SUZUKI 4<br>Hiroshi SUZUKI 4<br>Hisao TAOKA 4<br>Hisao TAOKA 4<br>National Superities 4<br>Predecessor<br>Anna MIYAURA 4<br>Successor<br>Hiroaki NIIMI 4<br>Aditional Expert, 5<br>Aditional Expert, 5<br>Comoaki TSUJI 5                                     | Actual       Plan       Plan       Plan       Plan       Plan       Plan       Plan       Plan       Plan       Actual       Plan       Plan       Actual       <  
  |                                       | (5)<br>(6)<br>(4/5.9.1 24(4)<br>(6)<br>4/3-5.9.25 (5)<br>(6)<br>(6)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7) | (1)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>(2)<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>5-9,10<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2) | (3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)  | 8/6,27<br>(1,20 (2)<br>30,31<br>20 8/5,6<br>(2) (2) | 10/3, 151     (2)     (8)       (2)     (8)       (6)     10/8-11, 15-11       (7)     10/8-12, 15-11       (7)     (10/7, 15-11)       (7)     110/75       (7)     110/75       (7)     110/75       (7)     (10/7, 15-11)       (7)     (10/7, 15-11)       (7)     (3)       (7)     (3)       (10/15, 17)     (1)       (10/15, 17)     (3)       (1)     (1)       (10/15, 17)     (3)       (3)     12/115-17       (3)     (3)       (3)     (3)       (3)     (3)  
   
   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                              | 013,7,6,10,143           9,12,7,13,15,16 ±1,114           101           110           111           111           111           111           111           111           111           111           111           112           113           114           117, (10)           110           111           112           113           114           115           110           111 <tr< td=""><td>(12)         (11)         (12)           (8)         (10)         (2)           1         1         (2)           1         12/7.141         (2)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/12.18         (8)         (12)           12/15.20.44.26.3         (20)           15         (10)         (10)           (2)         11/15         11/2/15           (2)         11/16         11/2/15           (2)         11/16         11/2/15           (2)         11/12         (2)           (2)         11/12         (2)           (2)         (11)         (9)           (4)         20         (2)</td><td>(14)<br/>(14)<br/>(22)<br/>(22)<br/>(22)<br/>(22)<br/>(2)<br/>(2)<br/>(3)<br/>(4)<br/>(2)<br/>(3)<br/>(4)<br/>(4)<br/>(4)<br/>(5)<br/>(7)<br/>(2)<br/>(3)<br/>(4)<br/>(4)<br/>(5)<br/>(7)<br/>(2)<br/>(3)<br/>(4)<br/>(4)<br/>(5)<br/>(7)<br/>(2)<br/>(2)<br/>(3)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(5)<br/>(7)<br/>(2)<br/>(2)<br/>(3)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(5)<br/>(7)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4</td><td>(2)<br/>(2)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3</td><td>(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)</td><td>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)</td><td></td><td>(1) (1) (2) (2) (2)<br/>(2) (1) (1) (2) (2)<br/>(2) (1) (1) (1) (2) (2)<br/>(3) (2) (1) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2</td><td>16         18.         20.27.         13.25.           22.4 (0)         (7).28.         30.(0)         7 28.           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           5/27         5/4         7/4         8/           (10)         (1)         (1)         (1)         (1)           (11)         (1)         (1)         (1)         -           (2)         (2)         -         -         -           (2)         (2)         -         -         -</td><td>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)</td><td>(8) (1<br/>12/14-77, 19.20, 11/19.20, 1</td><td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td>44-28 (2)<br/>578,99<br/>(2)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5</td><td>-28<br/>-28<br/>-24<br/>-24<br/>24<br/>26.29<br/>-7<br/>-7<br/>-7<br/>-7<br/>-7<br/>-7<br/>-7<br/>-7<br/>-7<br/>-7</td><td>Home</td><td>97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0        
4.95           105.6         5.28           115.4         7.23           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30           7.4         0.37           4.0         0.20           7.4         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.50.0         2.50           8.56         4.28           8.4.2         4.21           Plan         786.2         39.31</td></tr<>  | (12)         (11)         (12)           (8)         (10)         (2)           1         1         (2)           1         12/7.141         (2)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/2.18         (8)         (12)           10/91         1         (12)           11/12.18         (8)         (12)           12/15.20.44.26.3         (20)           15         (10)         (10)           (2)         11/15         11/2/15           (2)         11/16         11/2/15           (2)         11/16         11/2/15           (2)         11/12         (2)           (2)         11/12         (2)           (2)         (11)         (9)           (4)         20         (2)   
  | (14)<br>(14)<br>(22)<br>(22)<br>(22)<br>(22)<br>(2)<br>(2)<br>(3)<br>(4)<br>(2)<br>(3)<br>(4)<br>(4)<br>(4)<br>(5)<br>(7)<br>(2)<br>(3)<br>(4)<br>(4)<br>(5)<br>(7)<br>(2)<br>(3)<br>(4)<br>(4)<br>(5)<br>(7)<br>(2)<br>(2)<br>(3)<br>(4)<br>(4)<br>(4)<br>(4)<br>(5)<br>(7)<br>(2)<br>(2)<br>(3)<br>(4)<br>(4)<br>(4)<br>(4)<br>(5)<br>(7)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4)<br>(4  | (2)<br>(2)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3   | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   | (1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)  |  | (1) (1) (2) (2) (2)<br>(2) (1) (1) (2) (2)<br>(2) (1) (1) (1) (2) (2)<br>(3) (2) (1) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2  | 16         18.         20.27.         13.25.           22.4 (0)         (7).28.         30.(0)         7 28.           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           (10)         (3)         -         -           5/27         5/4         7/4         8/           (10)         (1)         (1)         (1)         (1)           (11)         (1)         (1)         (1)         -           (2)         (2)         -         -         -           (2)         (2)         -         -         -   
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   | -28<br>-28<br>-24<br>-24<br>24<br>26.29<br>-7<br>-7<br>-7<br>-7<br>-7<br>-7<br>-7<br>-7<br>-7<br>-7  | Home               | 97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           115.4         7.23           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30           7.4         0.37           4.0         0.20           7.4         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.50.0         2.50           8.56         4.28           8.4.2         4.21           Plan         786.2         39.31 |
| H                                       | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Sub Team Leader / Power System (2) Control Cont | Predecessor<br>Tomoyasu FUKUCHI 2<br>Successor<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yasuhiro SAKAMOTO 3<br>Hiroshi SUZUKI 4<br>Hiroshi SUZUKI 4<br>Hisao TAOKA 4<br>Hisao TAOKA 4<br>National Superities 4<br>Predecessor<br>Anna MIYAURA 4<br>Successor<br>Hiroaki NIIMI 4<br>Aditional Expert, 5<br>Aditional Expert, 5<br>Comoaki TSUJI 5                                     | Actual       Plan       Plan       Plan       Plan       Plan       Plan       Plan       Plan       Plan       Actual       Plan       Plan       Actual       <  
  |                                       |   | (1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2   | (3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)  | 8/6,27<br>(1,20 (2)<br>30,31<br>20 8/5,6<br>(2) (2) | 10.9, 151     (2)     (8)       (2)     (8)       (6)     10.8-11, 15-11       (7)     10.8-11, 15-11       (7)     (7)       (7)     110.75       (7)     110.75       (7)     110.75       (7)     (7)       (8)     (7)       (9)     (7)       (10)     (7)       (11)     (7)       (12)     (7)       (13)     (7)       (14)     (7)       (15)     (7)       (16) <td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td>013,7,6,10,143           9,12,7,13,15,16 ±1,114           101           110           111           111           111           111           111           111           111           111           111           112           113           114           117, (10)           110           111           112           113           114           115           110           111      <tr< td=""><td>(12)         (11)         (12)           (8)         (10)         (2)           1         1         (2)           12/7.141         (2)           11/2.18         (8)           10/91         1           12/7.28         (3)           10/91         1           11/2.18         (3)           10/91         1           11/2.18         (3)           10/91         1           11/2.18         (3)           10/91         1           11/2.18         (3)           10/91         1           11/2.18         (4)           11/2.19         (2)           12/16.20,4/2.63         (2)           12/16.20,4/2.63         (2)           13/17         11/27           12/16.20,4/2.63         (2)           11/17         11/27           12/16.20,4/2.63         (2)           11/17         11/27           12/17/19         (2)           11/17         11/27           12/17/19         (2)           11/17         11/27           11/17         11/28          
12/17</td><td>(14)<br/>(14)<br/>(28,9,1<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(2)<br/>(2)<br/>(3)<br/>(4)<br/>(2)<br/>(3)<br/>(5)<br/>(7)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(5)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(5)<br/>(2)<br/>(3)<br/>(5)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(4)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2</td><td>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3</td><td>(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)</td><td>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)</td><td></td><td>(1) (1) (2) (2) (2)<br/>(1) (1) (2) (2)<br/>(2) (1) (1) (2)<br/>(1) (1) (1) (2)<br/>(1) (1) (1) (2)<br/>(2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1</td><td>16         18.         0.27.         13.25.           22         24         (1)         (3)         1           (10)         (3)         1         7         2           (10)         (3)         61.2.15.         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1</td><td>(3)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,</td><td>(8) (1<br/>12/14-77, 19.20, 11/19.20, 1</td><td>28-10<br/>11/12_<br/>21/3 (3) (<br/>22/3 (2) (2)<br/>2/3 (2) (2)<br/>2/4 (2) (2)<br/>1 (37 2)<br/>(6) (0) (<br/>1 (2) (37 2)<br/>1 (37 2)<br/>(6) (1) (1) (2)<br/>(7) (1) (1) (2)<br/>2/7 (1) (2)<br/>2/7 (1) (2)<br/>2/7 (1)<br/>3/ (1/4) (2)<br/>3/ (1</td><td>20,22, 2, 2<br/>7) (7)<br/>7) (7)<br/>70 (7)<br/>70 (7)<br/>70 (20)<br/>70 (20)<br/>70</td><td>44-28 (2)<br/>578,9<br/>(2)<br/>(4-28,7)<br/>(4-28,7)<br/>(4-28,7)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5</td><td>-23<br/>-23<br/>-23<br/>-24<br/>-24<br/>-25<br/>-25<br/>-25<br/>-25<br/>-25<br/>-25<br/>-25<br/>-25</td><td>Home<br/>Activities</td><td>97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           115.4         5.77           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30           7.4         0.37           4.0         0.20           74.0         3.70           55.0         2.56           128         56.0           6.0         0.30           74.0         3.70           55.0         2.50           55.0         2.50           55.0         2.50           85.6         4.28           84.2         4.21           Plan         786.2         39.31           Plan         1.514.2         63.57</td></tr<></td> | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                              | 013,7,6,10,143           9,12,7,13,15,16 ±1,114           101           110           111           111           111           111           111           111           111           111           111           112           113           114           117, (10)           110           111           112           113           114           115           110           111 <tr< td=""><td>(12)         (11)         (12)           (8)         (10)         (2)           1         1         (2)           12/7.141         (2)           11/2.18         (8)           10/91         1           12/7.28         (3)           10/91         1           11/2.18         (3)           10/91         1           11/2.18         (3)           10/91         1           11/2.18       
 (3)           10/91         1           11/2.18         (3)           10/91         1           11/2.18         (4)           11/2.19         (2)           12/16.20,4/2.63         (2)           12/16.20,4/2.63         (2)           13/17         11/27           12/16.20,4/2.63         (2)           11/17         11/27           12/16.20,4/2.63         (2)           11/17         11/27           12/17/19         (2)           11/17         11/27           12/17/19         (2)           11/17         11/27           11/17         11/28           12/17</td><td>(14)<br/>(14)<br/>(28,9,1<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(2)<br/>(2)<br/>(3)<br/>(4)<br/>(2)<br/>(3)<br/>(5)<br/>(7)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(5)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(5)<br/>(2)<br/>(3)<br/>(5)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(4)<br/>(1)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2)<br/>(2</td><td>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3</td><td>(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)</td><td>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)</td><td></td><td>(1) (1) (2) (2) (2)<br/>(1) (1) (2) (2)<br/>(2) (1) (1) (2)<br/>(1) (1) (1) (2)<br/>(1) (1) (1) (2)<br/>(2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1</td><td>16         18.         0.27.         13.25.           22         24         (1)         (3)         1           (10)         (3)         1         7         2           (10)         (3)         61.2.15.         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(3)         1           (10)         (3)         83.4.         1         1           (10)         (3)         83.4.         1         1           (10)         (3)         83.4.         1         1           522         5/4         7/4         87.         1           (10)         (1)         (1)         (1)         1         1           522         5/4         7/4         87.         1         1           (10)         (1)         1         1         1         1           (11)         (1)         1         1         1         1           (10)         (10)         (11)         1         1         1</td><td>(3)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>102(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,31)<br/>112(9,</td><td>(8) (1<br/>12/14-77, 19.20, 11/19.20, 1</td><td>28-10<br/>11/12_<br/>21/3 (3) (<br/>22/3 (2) (2)<br/>2/3 (2) (2)<br/>2/4 (2) (2)<br/>1 (37 2)<br/>(6) (0) (<br/>1 (2) (37 2)<br/>1 (37 2)<br/>(6) (1) (1) (2)<br/>(7) (1) (1) (2)<br/>2/7 (1) (2)<br/>2/7 (1) (2)<br/>2/7 (1)<br/>3/ (1/4) (2)<br/>3/ (1</td><td>20,22, 2, 2<br/>7) (7)<br/>7) (7)<br/>70 (7)<br/>70 (7)<br/>70 (20)<br/>70 (20)<br/>70</td><td>44-28 (2)<br/>578,9<br/>(2)<br/>(4-28,7)<br/>(4-28,7)<br/>(4-28,7)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(4)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5)<br/>(5</td><td>-23<br/>-23<br/>-23<br/>-24<br/>-24<br/>-25<br/>-25<br/>-25<br/>-25<br/>-25<br/>-25<br/>-25<br/>-25</td><td>Home<br/>Activities</td><td>97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           115.4         5.77           115.4         5.77           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30           7.4         0.37           4.0         0.20           74.0         3.70           55.0         2.56           128         56.0           6.0         0.30           74.0         3.70           55.0         2.50           55.0         2.50           55.0         2.50           85.6         4.28           84.2         4.21           Plan         786.2         39.31           Plan         1.514.2         63.57</td></tr<> | (12)         (11)         (12)           (8)         (10)         (2)           1         1         (2)           12/7.141         (2)           11/2.18         (8)           10/91         1           12/7.28         (3)           10/91         1           11/2.18         (3)           10/91         1           11/2.18         (3)           10/91         1           11/2.18         (3)           10/91         1           11/2.18         (3)           10/91         1           11/2.18         (4)           11/2.19         (2)           12/16.20,4/2.63         (2)           12/16.20,4/2.63         (2)           13/17         11/27           12/16.20,4/2.63 
       (2)           11/17         11/27           12/16.20,4/2.63         (2)           11/17         11/27           12/17/19         (2)           11/17         11/27           12/17/19         (2)           11/17         11/27           11/17         11/28           12/17   | (14)<br>(14)<br>(28,9,1<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(4)<br>(2)<br>(2)<br>(3)<br>(4)<br>(2)<br>(3)<br>(5)<br>(7)<br>(2)<br>(3)<br>(3)<br>(4)<br>(2)<br>(2)<br>(3)<br>(3)<br>(4)<br>(5)<br>(2)<br>(3)<br>(3)<br>(4)<br>(5)<br>(2)<br>(3)<br>(5)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(4)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2 | (2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3   | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)   | (1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)  |  | (1) (1) (2) (2) (2)<br>(1) (1) (2) (2)<br>(2) (1) (1) (2)<br>(1) (1) (1) (2)<br>(1) (1) (1) (2)<br>(2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1  | 16         18.         0.27.         13.25.           22         24         (1)         (3)         1           (10)         (3)         1         7         2           (10)         (3)         61.2.15.         (1)         1           (10)         (3)         61.2.15.         (3)         1           (10)         (3)         61.2.15.         (3)         1           (10)         (3)         61.2.15.         (3)         1           (10)         (3)         83.4.         1         1           (10)         (3)         83.4.         1         1           (10)         (3)         83.4.         1         1           522         5/4         7/4         87.         1           (10)         (1)         (1)         (1)         1         1           522         5/4         7/4         87.         1         1           (10)         (1)         1         1         1         1           (11)         (1)         1         1         1         1           (10)         (10)         (11)         1         1         1   
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| H                                       | Diesel/Gas-turbine Power Plant(2) Team Leader / Power System(1) / Diesel/Gas-turbine Power Plant(2) Sub Team Leader / Power System (2) Sub Team Leader / Power System (2) Control Cont | Predecessor<br>Tomoyasu FUKUCHI 2<br>Successor<br>Masaaki EBINA 3<br>Yuka NAKAGAWA 3<br>Yuka NAKAGAWA 3<br>Yasuhiro SAKAMOTO 3<br>Hiroshi SUZUKI 4<br>Hisao TAOKA 4<br>Hisao TAOKA 4<br>Ryota NISHINO 5<br>Takahiro TANABE 4<br>Predecessor<br>Anna MIYAURA 4<br>Successor<br>Hiroaki NIIMI 4<br>Aditional Expert,<br>Predecessor<br>Tomoaki TSUJI 5<br>Aditional Expert,<br>Successor                                     | Actual       Plan       Plan       Plan       Plan       Plan       Plan       Plan       Plan       Plan       Actual       Plan       Plan       Actual       <  
  |                                       |   | (1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2)<br>(2   | (3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(4)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3 | 8/6,27<br>(1,20 (2)<br>30,31<br>20 8/5,6<br>(2) (2) | 10.9, 151     (2)     (8)       (6)     (7), 10, 76, 11, 15, 71       (6)     110, 76, 11, 15, 71       (7)     110, 75, 17       (7)     (7), 15, 17       (7)     (7), 17, 15, 17       (7)     (7), 17, 15, 17       (7)     (7), 17, 15, 17       (7)     (7), 17, 15, 17       (7)     (7), 17, 15, 17       (7)     (7), 10, 15, 17       (7)     (7), 10, 15, 17       (7)     (7), 10, 15, 17       (7)     (7), 10, 15, 17       (7)     (7), 10, 15, 17       (7)     (7), 10, 15, 17       (7)     (7), 12, 15, 17       (7)     (7), 12, 15, 17       (7)     (7), 12, 15, 17       (7)     (7), 12, 15, 17       (7)     (7), 12, 15, 17       (7)     (7), 12, 15, 17       (7)     (7), 12, 15, 17       (7)     (7), 12, 15, 17   
   
   | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                              | 013,7,6,10,143           9,12,7,13,15,16 ±1,114           101           110           111           111           111           111           111           111           111           111           111           112           113           114           117, (10)           110           111           112           113           114           115           110           111 <tr< td=""><td>(12)         (11)         (12)           (8)         (10)         (2)           1         1         (2)           12/7.141         (2)           11/2.18         (8)           10/91         1           12/7.28         (3)           10/91         1           11/2.18         (3)           10/91         1           11/2.18         (3)           10/91         1           11/2.18         (3)           10/91         1           11/2.18         (3)           10/91         1           11/2.18         (4)           11/2.19         (2)           12/16.20,4/2.63         (2)           12/16.20,4/2.63         (2)           13/17         11/27           12/16.20,4/2.63         (2)           11/17         11/27           12/16.20,4/2.63         (2)           11/17         11/27           12/17/19         (2)           11/17         11/27           12/17/19         (2)           11/17         11/27           11/17         11/28           12/17</td><td>(14)<br/>(14)<br/>(18,9,1 2715,222<br/>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(1)<br/>(2)<br/>(3)<br/>(3)<br/>(4)<br/>(4)<br/>(5)<br/>(7)<br/>(4)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7)<br/>(7</td><td>(2)<br/>(2)<br/>(2)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3)<br/>(3</td><td>(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)</td><td>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)<br/>(1)</td><td></td><td>(1) (1) (2) (2) (2)<br/>(2) (1) (1) (2) (2)<br/>(2) (1) (1) (1) (2)<br/>(2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1</td><td>16         18.         0.27.         13.25.           22         24         (1)         (3)         1           (10)         (3)         1         7         2           (10)         (3)         61.2.15.         (1)         1           (10)         (3)         61.2.15.         (3)         1           (10)         (3)         61.2.15.         (3)         1           (10)         (3)         61.2.15.         (3)         1           (10)         (3)         83.4.         1         1           (10)         (3)         83.4.         1         1           (10)         (3)         83.4.         1         1           522         5/4         7/4         87.         1           (10)         (1)         (1)         (1)         1         1           522         5/4         7/4         87.         1         1           (10)         (1)         1         1         1         1           (11)         (1)         1         1         1         1           (10)         (10)         (11)         1         1         1</td><td>(3)<br/>10/2 9,31 [1/1,<br/>(3)<br/>10/2 9,31 [1/1,<br/>(2) [2] 9<br/>10/2,0,17/1,<br/>(3)<br/>10/2 9,31 [1/1,<br/>(2) [2] 9<br/>10/2,0,17/1,<br/>(3)<br/>10/2,1,17,18,<br/>(1) (2) [2] (2) 9<br/>(1) (3)<br/>(1) (4) (5)<br/>(3) (7)<br/>(4) (5) (6)<br/>(4) (7)<br/>(4) (7)<br/>(4) (7)<br/>(4) (7)<br/>(4) (7)<br/>(4) (7)<br/>(4) (7)<br/>(4) (7)<br/>(4) (7)<br/>(4) (7)<br/>(5) (7)<br/>(7) (7)<br/>(7</td><td>(8) (1<br/>12/14-77, 19.20, 11/19.20, 1</td><td>288-10<br/>1712_<br/>213 (3) (4<br/>213 (3) (4<br/>213 (3) (4<br/>213 (3) (4<br/>213 (3) (4<br/>214 (2) (2) (4<br/>(3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4</td><td>20,22, 2, 2<br/>7) (7) (7)<br/>7) (7) (7)<br/>8, 6, 8, 9, 13, 11<br/>7) (7) (7)<br/>9<br/>9<br/>9<br/>9<br/>9<br/>9<br/>9<br/>9<br/>9<br/>9<br/>9<br/>9<br/>9</td><td>44-28
(2)<br/>578,99<br/>(2)<br/>578,99<br/>(2)<br/>4/33-7,10-<br/>(6)<br/>17-21,24-<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>571-4<br/>(9)<br/>(9)<br/>(9)<br/>(9)<br/>(9)<br/>(9)<br/>(9)<br/>(9)<br/>(9)<br/>(9)</td><td>-23<br/>-23<br/>-23<br/>-24<br/>-24<br/>-25<br/>-25<br/>-25<br/>-25<br/>-25<br/>-25<br/>-25<br/>-25</td><td>Home<br/>Activities</td><td>97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           115.4         7.23           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30           7.4         0.37           4.0         0.20           7.4         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.50.0         2.50           8.56         4.28           8.4.2         4.21           Plan         786.2         39.31</td></tr<>  | (12)         (11)         (12)           (8)         (10)         (2)           1         1         (2)           12/7.141         (2)           11/2.18         (8)           10/91         1           12/7.28         (3)           10/91         1           11/2.18         (3)           10/91         1           11/2.18         (3)           10/91         1           11/2.18         (3)           10/91         1           11/2.18         (3)           10/91         1           11/2.18         (4)           11/2.19         (2)           12/16.20,4/2.63         (2)           12/16.20,4/2.63         (2)           13/17         11/27           12/16.20,4/2.63         (2)           11/17         11/27           12/16.20,4/2.63         (2)           11/17         11/27           12/17/19         (2)           11/17         11/27           12/17/19         (2)           11/17         11/27           11/17         11/28           12/17   | (14)<br>(14)<br>(18,9,1 2715,222<br>(2)<br>(2)<br>(2)<br>(3)<br>(3)<br>(4)<br>(1)<br>(2)<br>(3)<br>(3)<br>(4)<br>(4)<br>(5)<br>(7)<br>(4)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7)<br>(7  
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   | (3)<br>10/2 9,31 [1/1,<br>(3)<br>10/2 9,31 [1/1,<br>(2) [2] 9<br>10/2,0,17/1,<br>(3)<br>10/2 9,31 [1/1,<br>(2) [2] 9<br>10/2,0,17/1,<br>(3)<br>10/2,1,17,18,<br>(1) (2) [2] (2) 9<br>(1) (3)<br>(1) (4) (5)<br>(3) (7)<br>(4) (5) (6)<br>(4) (7)<br>(4) (7)<br>(4) (7)<br>(4) (7)<br>(4) (7)<br>(4) (7)<br>(4) (7)<br>(4) (7)<br>(4) (7)<br>(4) (7)<br>(5) (7)<br>(7) (7)<br>(7 | (8) (1<br>12/14-77, 19.20, 11/19.20, 1 | 288-10<br>1712_<br>213 (3) (4<br>213 (3) (4<br>213 (3) (4<br>213 (3) (4<br>213 (3) (4<br>214 (2) (2) (4<br>(3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4  
   | 20,22, 2, 2<br>7) (7) (7)<br>7) (7) (7)<br>8, 6, 8, 9, 13, 11<br>7) (7) (7)<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9  | 44-28 (2)<br>578,99<br>(2)<br>578,99<br>(2)<br>4/33-7,10-<br>(6)<br>17-21,24-<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>571-4<br>(9)<br>(9)<br>(9)<br>(9)<br>(9)<br>(9)<br>(9)<br>(9)<br>(9)<br>(9) | -23<br>-23<br>-23<br>-24<br>-24<br>-25<br>-25<br>-25<br>-25<br>-25<br>-25<br>-25<br>-25  | Home<br>Activities | 97.0         4.85           29.0         1.45           29.0         1.45           138.0         6.90           99.0         4.95           105.6         5.28           115.4         7.23           115.4         5.77           81.6         4.08           56.0         2.80           0.0         0.00           25.6         1.28           6.0         0.30           7.4         0.37           4.0         0.20           7.4         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.40         3.70           7.50.0         2.50           8.56         4.28           8.4.2         4.21           Plan         786.2         39.31 |

o Plan Actual

### As of Project Completion

Appendix 3-1-1 Material for the 1st Energy Efficiency Workshop (Jamaica)\_(1)

Energy Efficiency & Conservation (EEC) Materiel Technical Cooperation to Promote Energy Efficiency in Caribbean Countries Contents



# - Energy Audit including Walk Through Survey -

### Jamaica, February 2023

Nippon Koei Co. PADECO Co.

- 1. Overview of Government Office Building (GOB) in Bridgetown
- 2. Current Situation on Power Consumption
- 3. Comparison with Other Buildings in Tropical Weather
- 4. Examination of Energy Savings Opportunities

NIPPON KOEI PADECO

Japan International Cooperation Agency



jica

1. Overview of Government Office Building (GOB) in Bridgetown



# Overview of GOB in Bridgetown, Barbados (entrance)



1. Overview of Government Office Building (GOB) in Bridgetown

NIPPON KOEI PADECO

NIPPON KOEI PADECO

### 1. Overview of Government Office Building (GOB) in Bridgetown





#### Basic Data of the Building

Number of floors	2
Floor area	966 m2
Building use	Government
Annual power consumption	167,635 kWh
Annual power consumption per floor area	174 kWh/m2



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### 1. Overview of Government Office Building (GOB) in Bridgetown

### Bird 'eye view of GOB



# Bird 'eye view of GOB

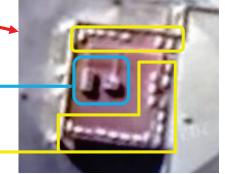
1. Overview of Government Office Building (GOB) in Bridgetown



Outdoor units of roof top air-conditioners

Outdoor units of mini split air-conditioners

More than 20 outdoor units of mini split air-conditioners and couple of outdoor units of central air-conditioners are observed.



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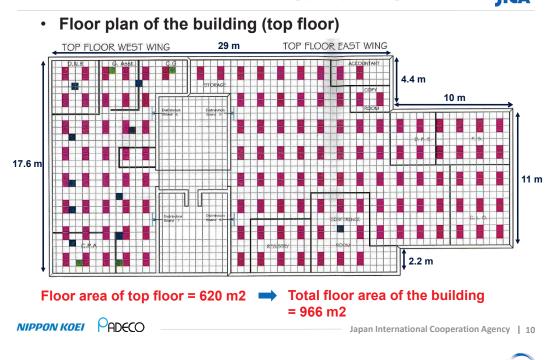
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### 1. Overview of Government Office Building (GOB) in Bridgetown



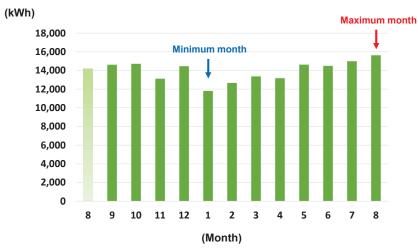
1. Overview of Government Office Building (GOB) in Bridgetown



2. Current Situation on Power Consumption



# Monthly Power Consumption Trends at GOB (actual data, Aug.2021 - Aug.2022)



• Floor plan of the building (ground floor)

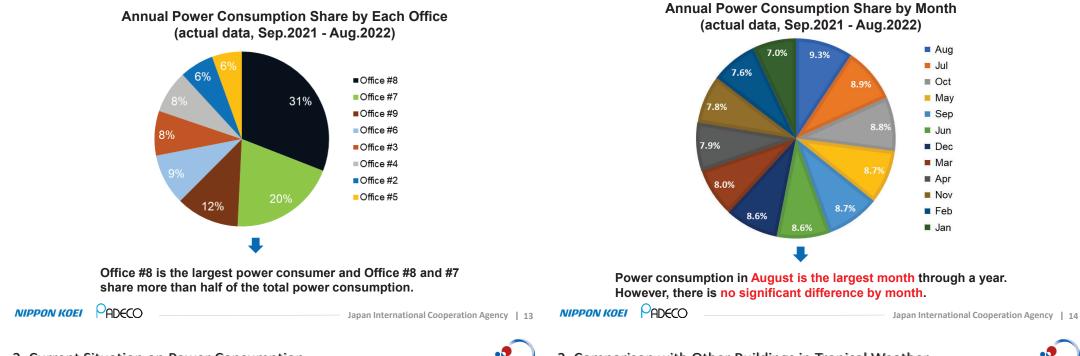


# 2. Current Situation on Power Consumption

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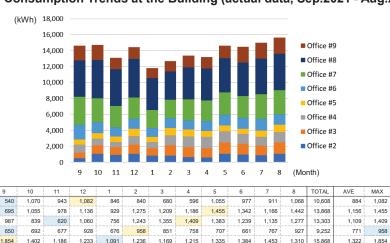






#### 2. Current Situation on Power Consumption

### Power Consumption Trends at the Building (actual data, Sep.2021 - Aug.2022)



2,819

1,560 1,973 1,998 2,020 19,637

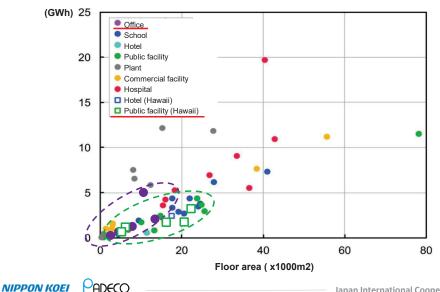
2,725 3,090

14 489

### 2. Comparison with Other Buildings in Tropical Weather



#### Annual Power Consumption Data (Okinawa & Hawaii)



4,600 4,862 3,986 3,523

2,662

1,490 1,252 1,290

2,268

14 453 11 804 12 667

2,302

2,615 2,611

4,026 3,984 4,311 4,188 4,468 4,575 51,845

1,463 1,410

13 368 13 169 14 625

Office #2

Office #3

Office #4

Office #5

Office #6

Office #7

Office #8

Office #9

Total

3,506 2,993 2,655

4,562 4,760

1,820 1,905

14 6 14 14 716 2,771 3,506 2,268

4,320

1,636 2,020 1,252

4,862

13 970 15 627 11 804

3,008 33,254

14,988 15,627 167,635

MIN

540 695

620

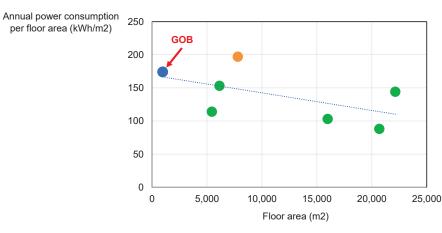
650

1.091

3,523







Summary Table of Annual Power Consumption per Floor Area

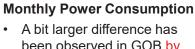
Location	Building use	Data number of buildings	Floor area (m2)	Annual power consumption (kWh)	Annual power consumption per floor area (kWh/m2)
Okinawa	Office	5	7,807 (average)	7,678,185	197
	State gvrnt office 1	1	15,989	1,641,600	103
	State gvrnt office 2	1	5,442	618,920	114
Hawaii	State gvrnt office 3	1	6,140	942,400	153
	State gvrnt office 4	1	22,146	3,184,800	144
	State gvrnt office 5	1	20,688	1,828,400	88
Barbados	GOB	1	966	167,635	174

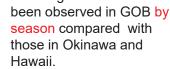
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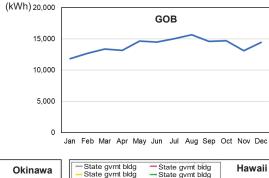
(MWh) 800

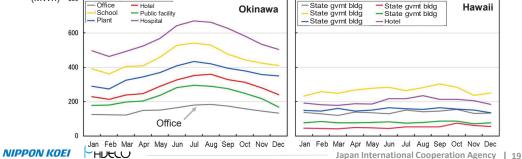
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### 2. Comparison with Other Buildings in Tropical Weather







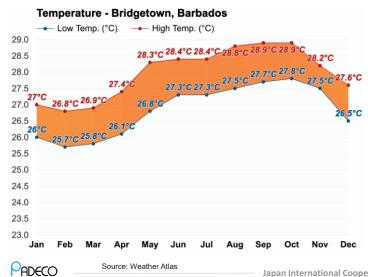




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#### Average Temperature Bridgetown, Barbados

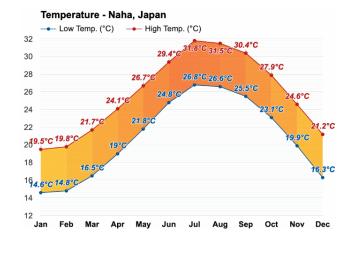


#### Graph of Annual Power Consumption per Floor Area





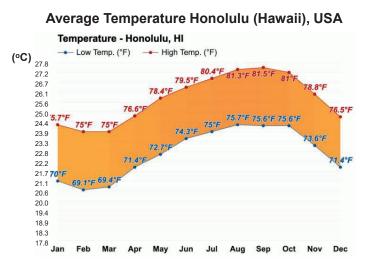




Source: Weather Atlas

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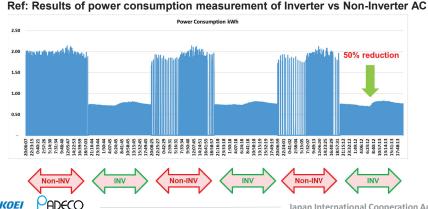


3. Examination of Energy Savings Opportunities



- Examination of energy savings by adopting efficient air conditioning technologies and approaches
  - (i-a) Adoption of Inverter mini split air conditioners
     ➢ Reduction of 50% power consumption

Source: Weather Atlas

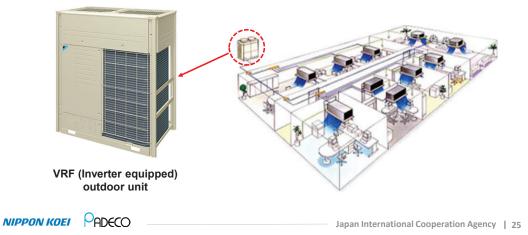


3. Examination of Energy Savings Opportunities

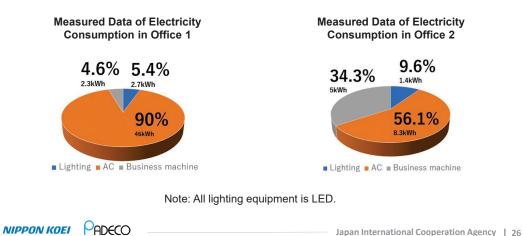




(i-b) Adoption of Variable Refrigerant Flow (VRF, Inverter always equipped) as an alternative of roof top air conditioners (Non-Inverter)



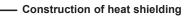
Ref: Measured power consumption data in 2 office rooms on Jun.12.2022 (24 hours, highest temp: 32.2 °C, lowest temp: 26.1 °C)





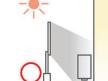
- 3. Examination of Energy Savings Opportunities
  - (ii) Heat shielding of outdoor units
    - > 10 % power reduction was observed by heat shielding





			-
	Room A	Room B	Effect of
	inv	inv	EE&C
	[kWh]	[kWh]	[%]
Jan.14	150	164	-9%
Jan.16	207	202	3%
Jan.20	93	86	8%
Jan.22	115	84	27%
Jan.28	146	122	16%
Jan.30	129	116	10%
Feb.3	148	141	4%
Feb.5	119	107	10%
Feb.9	152	132	13%
Feb.11	129	100	22%
Feb.13	126	103	18%
Feb.17	108	108	,1%
ave.	135	122	10%



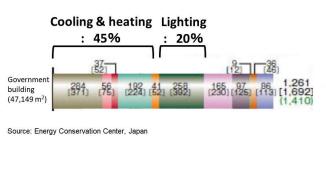


Source: "Data collection survey on energy efficiency in the D.R. final report" (Jan. 2016, JICA)



#### Ref: **Energy Consumption Data in Office Building, Japan**

3. Examination of Energy Savings Opportunities





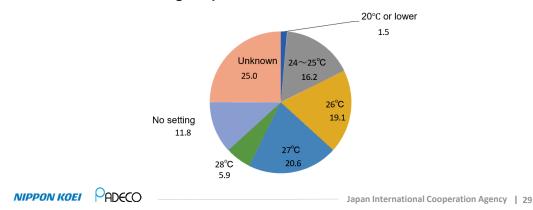


### 3. Examination of Energy Savings Opportunities



- (iii) Higher temperature setting of air conditioner
  - > 10 % power reduction by setting 1 °C higher temperature

Note: 13 % of power reduction with setting 1 °C higher temperature (by Ministry of Environment)



#### Ref: Setting temperature of air conditioner in Okinawa

### 3. Examination of Energy Savings Opportunities

#### Results of Examination (1) : power & cost savings

		Pre	sent situa	tion	
Annual power consumption for cooling	kWh		83,818		
Power consumption by INV AC	kWh	27,939			
Power consumption by Non-INV AC	kWh		55,879		<ul> <li>Assumption:</li> <li>50% of ACs are INVERTER at present</li> </ul>
Cooling loads by INV AC	kWh		139,697		<ul> <li>Efficiency of INV AC = 5 in kW/kW</li> <li>Efficiency of Non-INV AC = 2.5 in kW/kW</li> </ul>
Cooling loads by Non-INV AC	kWh		139,697		
Total cooling loads	kWh	279,393			
		EE measure (i)		EE measure (i)+(ii)+(iii)	
Power consumption after EE measures	kWh	55,879	50,291	45,262	
Power savings per year	kWh	27,939	33,527	38,556	
Power saving ratio	%	33	40	46	
Cost savings per year	\$	17,881	21,457	24,676	
Annual power consumption per floor area	kWh/ m2	145	139	134	

#### 3. Examination of Energy Savings Opportunities



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#### **Results of Examination (2) : Investment in INVERTER ACs**

	Item	Unit	Value
	Total power capacity of building	kVA	85
	Power factor	%	90
Estimation of cooling	Total power demand of building	kW	76.5
capacity of existing	Power demand of ACs	kW	38.3
Non-INV ACs	Power demand of INV ACs	kW	12.8
	Power demand of Non-INV ACs	kW	25.5
	Cooling capacity of Non-INV ACs	kW	63.8

Unit	Value
\$	1,700
Unit	13
\$	22,100
	\$

Note: AC market survey conducted in Barbados by JET in 2019

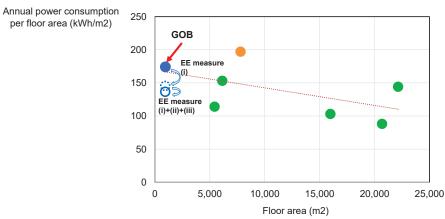
#### Simple payback year = 22.100 / 17.881 = 1.2 year

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### 3. Examination of Energy Savings Opportunities

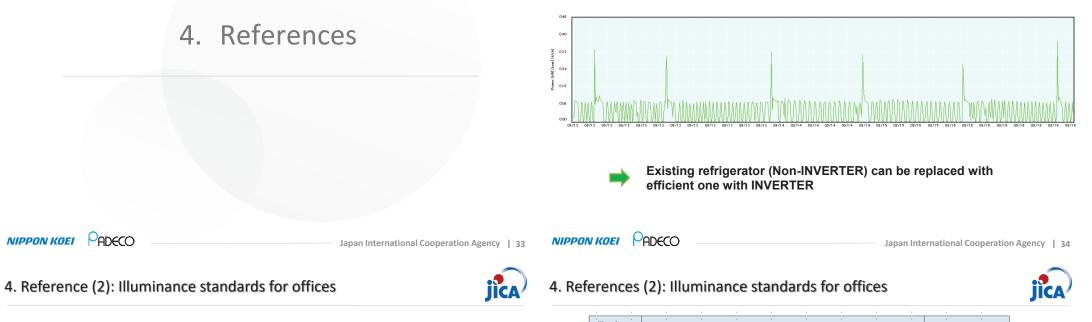


#### Graph of Annual Power Consumption per Floor Area with EE Measures





#### Ref: Measured Power Consumption Data of Refrigerator in GOB (Sep.12 – 16, 2022)



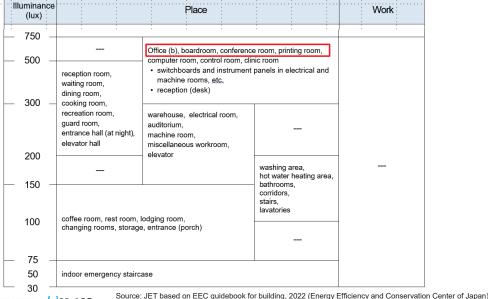
# Illuminance (lux) Place Work 2000 - 1500 - 1500 0 design 1000 office (a)<sup>(·)</sup>, sales room, design room, entrance hall (daytime)<sup>(··)</sup> 750 -

Illuminance standards for offices in Japan (JIS Z 9110)

#### (Note)

(\*) In the event that the office is used for detailed visual work or where daylight makes the room feel dark inside and bright outside the window, (a) should be selected.

(\*\*) In the entrance hall, the illuminance should be high because the interior of the hall appears dark when the eye is applying the tens of thousands of lux from outdoor natural light during the day. The entrance hall (nighttime) and (daytime) may be adjusted with staged flashing.



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### **EEC Promotion System**

- ✓ Do you have a mechanism for continuous EEC (e.g. EEC committee, etc.)?
- Are PDCA cycles for EEC activities being implemented with management participation?
- ✓ Have you designated a person or leader responsible for promoting EEC?
- ✓ Have you set EEC targets?
- Are energy consumption statuses posted for employees to see?
- Y Have you established a policy and implementation plan for EEC measures?
- ✓ Do you conduct personnel training and EEC awareness activities?
- ✓ Do you have the time and budget for EEC efforts?

Source: JET based on EEC guidebook for building, 2022 (Energy Conservation Center of Japan)

#### Measurement, Recording and Maintenance

- Do you maintain equipment ledger, drawings and other documents?
- Have you identified equipment that should be intensively managed for EEC?
- ✓ Do you have operation records (daily, monthly, etc.) for major facilities?
- Have you set values to be managed and their ranges to check operating conditions?
- Do you perform daily inspection and maintenance of equipment?
- ✓ Are there management standards for major facilities (air conditioning, ventilation, lighting, production facilities, etc.)?
- ✓ Do you perform periodic calibration and inspection of measuring instruments?
- ✓ Are filters, strainers, etc. cleaned and replaced regularly?
- ✓ Do you conduct periodic repairs and leak inspections (water, steam, compressed air, etc.) of piping, etc.?

Source: JET based on EEC guidebook for building, 2022 (Energy Conservation Center of Japan)

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### 4. Reference (3): EEC Check Items



### 4. Reference (3): EEC Check Items

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### **Energy Management**

- ✓ Do you tabulate (graphs, etc.) and visualize energy consumption by month/year?
- Is energy consumption measured and recorded by type and use, and constantly monitored?
- ✓ Do you measure hourly power usage and manage peak power?
- Do you analyze energy consumption taking into account outside temperatures and other factors?

### Management of Energy Intensity, etc.

- ✓ Have you calculated a common energy unit cost for the office (e.g. \$/kWh, \$/litre, \$/m3)?
- ✓ Do you manage intensity ("energy use/floor area", "energy cost/floor area", etc.)?
- ✓ Do you manage energy intensity / expenses by each department?

### **Management Cycle -PDCA-**

- ✓ Are you reviewing your EEC targets?
- Are you verifying the effectiveness of improvement measures implemented to date?
- ✓ Are you reviewing your plans for implementing future facility improvements and measures?

Source: JET based on EEC guidebook for building, 2022 (Energy Efficiency and Conservation Center of Japan) NIPPON KOEI ADECO

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### Improvements of Air Conditioning Efficiency

- Are outdoor units shaded and watered during the summer months?
- Are window blinds utilized to reduce heat gain through windows?
- ✓ Are filters cleaned regularly?
- ✓ Are shading films attached to window glass, and has plantings near windows implemented?
- ✓ Is air introduced into the room at night when the outside temperature is cooler (night purge)?
- ✓ Can we reduce the size of the air-conditioned area (partitions, high ceiling linings, etc.)
- ✓ Are spot coolers used when the air-conditioned area is large and the number of people is small?
- ✓ Are air-conditioned areas blocking drafts?
- Are you updating to high-efficiency air conditioners?

Source: JET based on EEC guidebook for building, 2022 (Energy Conservation Center of Japan)

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Lighting Fixtur	e Management and EEC			
✓ Is the illuminance standard for each room	n determined and controlled?			
✓ Are window lights turned off (using daylights)	ht)?			
$\checkmark$ Are lights turned off when not needed, su	ich as in unoccupied rooms or during lunch breaks?			
$\checkmark$ Do you adjust the lighting hours and num	ber of exterior lights according to the hours of daylight?			
✓ Have you cleaned the lamps and replace	d old lamps?		Thank you very much for	or your kind attention !
✓ Are motion sensors used in restrooms, w	varehouses, etc.?			•
✓ Is the installation position (height and pla brightness?	cement) of the lighting fixture appropriate for the required			
✓ Are lighting circuits subdivided so that lighting	hts can be turned off in unoccupied areas, etc.?			
✓ Are lights dimmed or turned off by autom	atic control?			
✓ Are you updating to LED lighting?				
✓ Have you considered task ambient lighting	ng (all room lighting => overall + hand lighting)?			
Source: JET based on EEC guidebook for building, 2	022 (Energy Conservation Center of Japan)			
NIPPON KOEI PADECO	Japan International Cooperation Agency   4	NIPPON	KOEI PADECO	Japan International Cooperation Agency   42
Technical Coo Energy Efficiency Information and kr	Conservation (EEC) Materiel peration to Promote in Caribbean Countries nowledge sharing material ement & Energy Audit -		•••••••	gement System (EnMS), d its Case Study
Jamaica,	February 2023			
	Nippon Koei Co., Ltd. PADECO Co., Ltd.			
NIPPON KOEI PADECO	Japan International Cooperation Agency	L _		

# Key Points of ISO 50001 (EnMS)



### **Key Points**

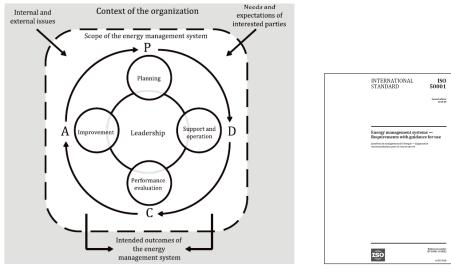
- ISO 50001 specifies the energy management system (EnMS) requirements for an organization. Successful implementation of an EnMS supports a culture of energy performance improvement that depends upon commitment from all levels of the organization, especially top management. In many instances, this involves cultural changes within an organization.
- EnMS includes an **energy policy, objectives, energy targets and action plans** related to its energy efficiency, energy use, and energy consumption.
- Energy performance is a concept which is related to energy efficiency, energy use and energy consumption. Energy performance indicators (EnPIs) and energy baselines (EnBs) are two interrelated elements to enable organizations to demonstrate energy performance improvement.
  - > Energy performance indicators (EnPIs)
    - The organization shall determine EnPIs that:
    - are appropriate for measuring and monitoring its energy performance;
  - enable the organization to demonstrate energy performance improvement.
  - Energy baseline (EnBs)
  - The organization shall establish (an) EnB(s) using the information from the energy review(s), taking into account a suitable period of time.

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# Key Points of ISO 50001 (EnMS)



Plan-Do-Check-Act (PDCA) cycle

# Key Points of ISO 50001 (EnMS)

### Plan-Do-Check-Act (PDCA) cycle

• The EnMS described is based on the Plan-Do-Check-Act (PDCA) continual improvement framework and incorporates energy management into existing organizational practices.

In the context of energy management, the PDCA approach can be outlined as table below.

Plan	Understand the context of the organization, establish an <b>energy</b> <b>policy</b> and an <b>energy management team</b> , consider actions to address risks and opportunities, conduct an <b>energy review</b> , identify <b>significant energy uses (SEUs)</b> and establish energy performance indicators (EnPIs), energy baseline(s) (EnBs), objectives and energy targets, and action plans necessary to deliver results that will improve energy performance in accordance with the organization's energy policy.
Do	Implement the action plans, operational and maintenance controls, and communication, ensure competence and consider energy performance in design and procurement.
Check	Monitor, measure, analyze, evaluate, audit and conduct management review(s) of energy performance and the EnMS.
Act	Take actions to address nonconformities and continually improve energy performance and the EnMS.
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### 1. Planning for Collection of Energy Data

- The organization shall ensure that key characteristics of its operations affecting energy performance are identified, measured, monitored and analyzed at planned intervals. The organization shall define and implement an energy data collection plan appropriate to its size, its complexity, its resources and its measurement and monitoring equipment.
- The plan shall specify the data necessary to monitor the key characteristics and state how and at what frequency the data shall be collected and retained.
- Data to be collected (or acquired by measurement as applicable) and retained documented information shall include:
  - · the relevant variables for SEUs;
  - · energy consumption related to SEUs and to the organization;
  - · operational criteria related to SEUs;
  - · static factors, if applicable;

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- data specified in action plans.
- The energy data collection plan shall be reviewed at defined intervals and updated as appropriate.

# Case Study of EnMS -ISO 50001-

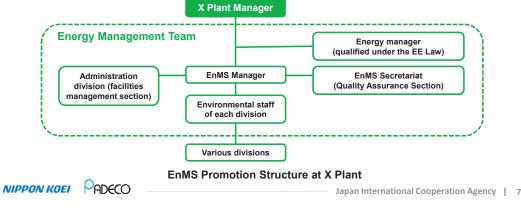
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### 2. Scope of EnMS

The scope of ISO 50001 certification covers the manufacture of automotive undercarriage parts at the X Plant.

### 3. Promotion Structure

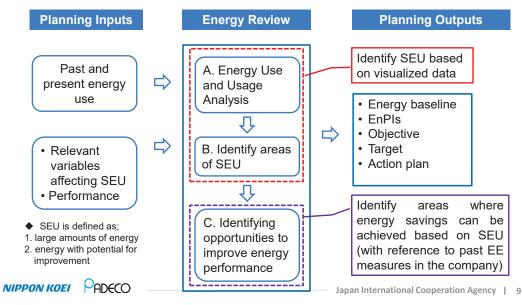
The X Plant Manager was appointed as top management to establish an EnMS based on ISO 50001, including an energy manager in accordance with the EE Law, a facility management section in the administration division, and a person in charge of promotion in each division.



# Case Study of EnMS -ISO 50001-



### 5. Overall Energy Review



### 4. Energy Policy

#### Energy Philosophy

We aim to be the top environmental runner in the automotive industry, and we will do our utmost to build a low-carbon and nature-rich future by deepening each employee's correct understanding of global environmental issues and actively engaging in ongoing environmental conservation activities in all areas of our corporate activities.

#### **Basic policy**

- > We will continuously implement energy conservation activities in our production activities.
- > Collect appropriate information to achieve our goals and objectives
- > We will strive to use appropriate resources to achieve our goals and objectives
- > We will comply with all laws and regulations related to energy use and other agreed upon requirements.
- > Set objectives and review them regularly.
- > We will strive to install energy-efficient product equipment and utilize energy-efficient services
- > We will develop environmentally conscious people through energy conservation activities.

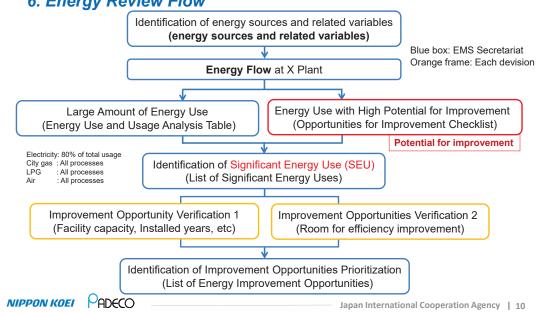
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# Case Study of EnMS -ISO 50001-



# 6. Energy Review Flow







### 7. Methodology for Setting Energy Baselines and Energy Performance Indicators

- The energy baseline was based on FY 2010, when operations were relatively normal.
- The energy performance indicators (EnPIs) are basic units obtained by dividing the respective energy consumption (total amount) by a more closely related variable.
- The intensity is set more precisely than that used for reporting under the EE Law, so that energy usage can be more clearly understood.

#### Energy Baselines and Energy Performance Indicators (EnPIs)

	Electricity	City gas	LPG	Air
Baseline	FY2010	FY2010	FY2010	FY2012
EnPIs	<ul> <li>Total amount</li> <li>Intensity (Value added)</li> </ul>	<ul> <li>Total amount</li> <li>Intensity (Production)</li> </ul>	<ul> <li>Total amount</li> <li>Intensity (Average temperature)</li> </ul>	<ul> <li>Total amount</li> <li>Intensity (Value added)</li> </ul>

Note: Parameter of intensity in parentheses

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# Case Study of EnMS -ISO 50001-



### 9. Preparation of Energy Management System Documents

- The following management system documents were prepared as applicable to the X plant.
- Energy Management System Manual
- Energy Review Implementation Procedures
- Environmental Meeting Procedures
- In addition, several forms mainly related to energy reviews were newly prepared, including an "Efficiency Improvement Feasibility Check Sheet" and an "Energy Review Survey Sheet" that lists;
- · Energy use classification of each process facility
- · Determination of equipment capacity suitability
- Determination of renewal timing
- EE improvement items
- Implementation status of measures.

#### 10. Management Review Outputs

The management review included detailed reports on the improvement of energy performance through the efforts of each division. Specific instructions were given to include total energy consumption in an energy performance indicators / targets, and "improving the energy management team's data analysis" and "improvements in implementation capabilities" were suggested.

# Case Study of EnMS -ISO 50001-

### 8. Energy Objectives and Targets

- Targets were set for a single year (FY2012) and for the medium term (through FY2015).
- In setting the targets, target values were set for each energy source without CO2 conversion or crude oil conversion in order to clarify the effect of energy improvement.

#### Energy Objectives and Targets (Mid term and FY2012)

		Electricity	City gas	LPG	Air
Intensity	FY2015	5% improvement	5% improvement	Less than FY2012	3% improvement
Intensity	FY2012	3% improvement	3% improvement	Less than FY2012	1% improvement
Total	FY2015	30% reduction	5% reduction	15% reduction	3% reduction
amount	FY2012	10% reduction	Less than FY2010	15% reduction	1% reduction

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# Case Study of EnMS -ISO 50001-



### 11. Schedule for ISO 50001 – from System Establishment to Certification

		20	12									20	13				
3 4	5 6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10
▲ Kick-of	f																
←		$\longrightarrow$	Sys	tem	estal	blish	ment										
	←			$\rightarrow$	Ene	ergy	revie	W									
					←					→	mple	emen	itatio	n of l	EE n	ieas	ures
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											/lana	gem	ent r	eviev	v		
													<b>ب</b>	Exan	ninat	ion	•
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# Case Study of EnMS -ISO 50001-



### 12. Results of Activities

Identified specific outcomes of the ISO 50001 are as follows;

- Regrading data collected by the energy management system, the steps formulation (e.g. data analysis, EE measures planning, implementation and effectiveness verification) has been standardized. This will enable permanent and systematic EE&C implementation.
- Persons in charge of implementation in each division improved skills in analyzing energy management data.
- Know-how on EE&C measures has been accumulated.
- > Morale / passion for EE&C increased at the plant.
- > Improved energy performance.

#### Improved Energy Performance Results

Total effect by measures	CO2 reductions (total)	81.2 t-CO2
conducted in FY2012	Reduction cost (total)	JPY 2,844,000
Total effect by measures	CO2 reductions (total)	130.3 t-CO2
conducted in FY2013 (estimates)	Reduction cost (total)	JPY 4,801,000

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### 13. Potential for Future Improvement

Future issues for the development of ENMS improvements include the following.

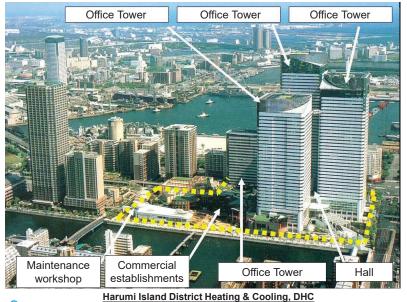
- Further strengthen data analytical capabilities of energy management system as well as implementation capabilities.
- > Accumulation of improvement know-how through energy use visualization.
- Support for ISO 50001 certification for overseas subsidiaries as a global mother.

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# Outline of District Heating & Cooling System

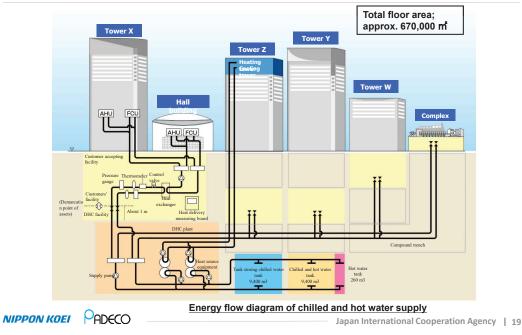




2. Energy Management Best Practice at District Heating & Cooling (DHC) plant in Japan

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# Outline of District Heating & Cooling System



# Key Points 1 for Achieving EEC

# jica

### Adoption of the most efficient chiller

Space cooling demand exceeds space heating demand in the offices, etc.

In order to increase the overall system efficiency, it is crucial to

adopt the equipment that produces chilled water efficiently.

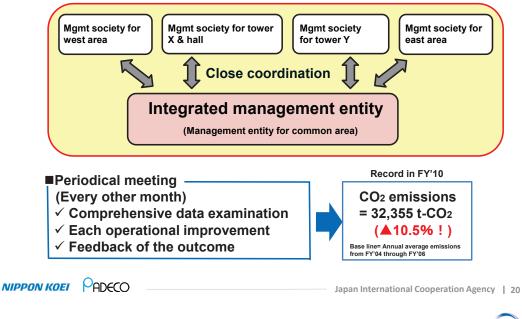
The most efficient centrifugal chillers at the time of design and construction were adopted.

AB			
A B C D E F G H			Chilled water
JKLM			Hot water
N O P			

# Outline of District Heating & Cooling System



Energy / Environment Management Structure

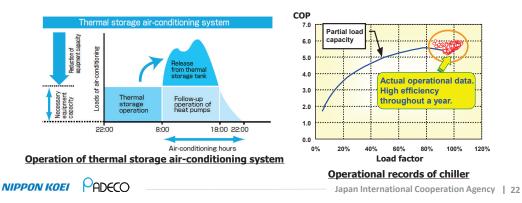


# Key Points 2 for Achieving EEC

### **Adoption of Thermal Storage Systems**

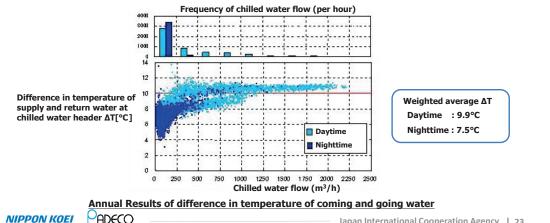
Heat pumps (chillers) can operate at high load factor where its efficiency is high with thermal storage system. Thus, large-scale thermal storage tank was adopted (19,060 m<sup>3</sup>). Note: Thermal storage system has similar effects with inverter

in terms of improving operational efficiency.



### Adoption of large temperature difference water

To reduce the power consumption by pumps, the temperature difference of supply and return water was designed at 10 degrees. while the standard is typically 7 degrees.



# Key Points 5 for Achieving EEC

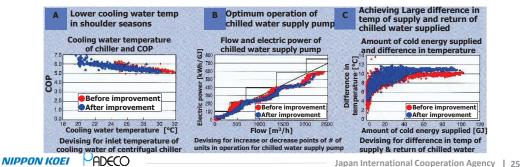


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### Implementation of continuous commissioning

Creation of "performance evaluation and review committee" including people of academic standing, designer and constructor. It lasted 3 years after completion of construction.

- > Understanding situation of operation through close and careful measurements and analyses.
- Evaluation of performance and identification of issues.
- Implementation of measures toward better performance and review of the effects thereof.



### Adoption of heat recovery heat pumps

Heat recovery heat pumps save energy drastically by recycling waste heat from cooling operation. Most of the waste heat is recovered and utilized as heat for space heating.

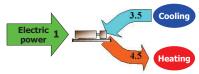
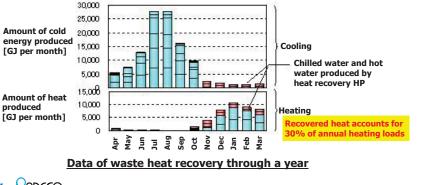


Image of heat recovery heat pump (COP=8)



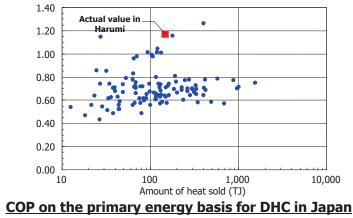
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✓ Among high-efficiency DHC systems, Harumi DHC achieved a top energy efficiency rating in Japan.

COP on primary energy base





Measurement

plan

Conducting the

site visit

Analysis

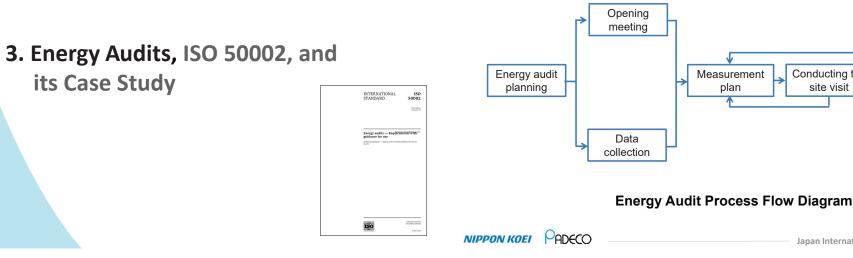
Energy audit reporting

> Closing meeting

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### **Energy Audit Process Flow**

ISO 50002 stipulates the energy audit process consists of the following stages.



#### Key Points of ISO 50002 (Energy audits) **iic**A

### **Data Collection**

Where available, the energy auditor shall collect, collate and record the appropriate energy data that support the audit objectives. This includes the following information:

- A) a list of energy consuming systems, processes and equipment;
- B) detailed characteristics of the energy uses within the defined energy audit scope, including relevant variables and how the organization believes they influence energy performance;
- historical and current energy performance data, including: C)
  - energy consumption, relevant variables, relevant related measurements (e.g. power factor i. measurements; results from a thermographic or compressed air survey);
  - operational history and past events that could have affected energy consumption in the period covered by the data collected;
- monitoring equipment, configuration and analysis information (e.g. local gauges, distributed D) control systems, instrumentation types);
- future plans, design, operation and maintenance documents; F)
- energy audits or previous studies related to energy performance; F)
- G) current energy rate schedule(s) (or tariffs) or a reference rate (or tariff) to be used for financial analysis;

# Key Points of ISO 50002 (Energy audits)

# Analysis of Current Energy Performance

The current energy performance provides the basis for evaluating improvements and shall include:

- A) a breakdown of the energy consumption by use and source:
- B) energy uses accounting for substantial energy consumption;
- C) where available and comparable, comparison with reference values of similar processes;
- D) a historical pattern of energy performance;
- E) expected improvements for energy performance.
- F) where appropriate, relationships between energy performance and relevant variables:
- G) an evaluation of the existing energy performance indicator(s) and, if necessary, proposals for (a) new energy performance indicator(s).

# Key Points of ISO 50002 (Energy audits)

### Identification of Improvement Opportunities

The energy auditor shall identify energy performance improvement opportunities based on analysis and the following:

- A) their own competency and expertise;
- B) evaluation of the design and configuration options to address the system needs;
- C) the operating lifetime, condition, operation and level of maintenance of the audited objects;
- D) the technology of existing energy uses in comparison to the most efficient on the market;
- E) best practices, including operational controls and behaviours;
- F) future energy use and changes in operation.

# jica

### **Evaluation of Improvement Opportunities**

The energy auditor shall evaluate the impact of each opportunity on the current energy performance based on the following:

- energy savings over an agreed time period or expected operating lifetime; (e.g. Energy savings, improvements in specific energy consumption).
- B) financial savings anticipated from each improvement opportunity;
- C) necessary investments;
- D) agreed economic and other criteria identified in the energy audit planning;
- E) other non-energy gains (such as productivity or maintenance);
- F) the ranking of energy performance opportunities;
- G) potential interactions between various opportunities.

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Key Points of ISO 50002 (Energy audits)

### **Energy Audit Report Contents**

The energy audit report shall include the following topics:

- A) Executive summary:
  - i. summary of energy use and consumption;

ii. ranking of opportunities for improving energy performance;

- iii. suggested implementation programme;
- B) Background:
  - i. general information on the organization, energy auditor and energy audit methods;
  - ii. relevant legal and other requirements applicable to the energy audit;
  - iii. statement of confidentiality;
  - iv.context of the energy audit;
  - v. energy audit description, defined scope and boundaries, audited objective(s) and timeframe;

# Key Points of ISO 50002 (Energy audits)

#### C) Energy audit details

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- i. information on data collection:
- ii. analysis of energy performance and any energy performance indicator(s);
- iii. basis for calculations, estimates and assumptions and the resulting accuracy;
- iv. criteria for ranking opportunities for improving energy performance.

#### D) Opportunities for improving energy performance

- i. recommendations and the suggested implementation programme;
- ii. assumptions and methods used in calculating energy savings, and the resulting accuracy of calculated energy savings and benefits;
- iii. assumptions used in calculating costs of implementation, and the resulting accuracy;
- iv. appropriate economic analysis, including known financial incentives and any nonenergy gains;
- v. potential interactions with other proposed recommendations;
- vi. measurement and verification methods recommended for use in post-implementation assessment of the recommended opportunities;
- E) Conclusions and recommendations.

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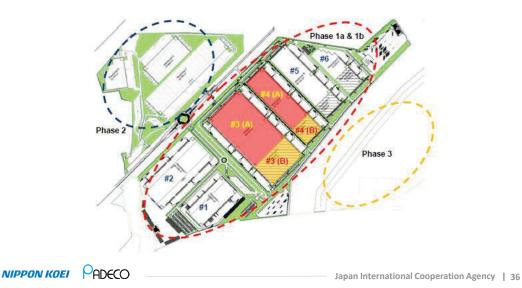
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### < Reference> Energy Audit Principles

The energy audit shall be conducted according to the following principles:

- A) the audit is consistent with the agreed energy audit scope, boundary and audit objective(s);
- B) the measurements and observations are appropriate to the energy uses and consumption;
- c) the collected energy performance data are representative of the activities, processes, equipment and systems;
- D) the used data for quantifying energy performance and identifying improvement opportunities are consistent and unique;
- E) the process of collecting, validating and analysing data is traceable;
- F) the energy audit report provides energy performance improvement opportunities based on appropriate technical and economic analysis.

### Logistics Center Project (2 large warehouses + offices)



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# Case Study of Energy Audits (1)



# Case Study of Energy Audits (1)

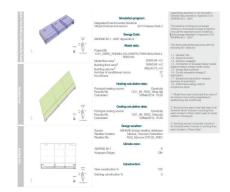


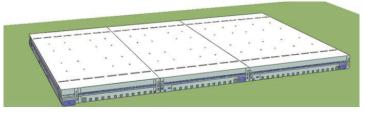
# Energy Dynamic Simulation

Part of Building Design Data (Project Data)

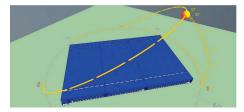
Areas	Lighting ( in	nstalled)	People		Shifts	Т©
	GL	FF				
	kW	kW				
Warehouse 1	13176	96336		70	3	1
Warehouse 2	13608	100224		70	3	1
Warehouse 3	17496	123552		80	3	1
Office 1_1	15	W/m2		13	2	1
Office 1_2	15	W/m2		13	2	1
Office 2_1	15	W/m2		13	2	1
Office 2_2	15	W/m2		13	2	1
Office 3_1	15	W/m2		24	2	1
Office 3_2	15	W/m2		24	2	1
Toilets 1	15	W/m2		24	2	1
Toilets 2	15	W/m2				
Toilets 3	15	W/m2				
Toilets 4	15	W/m2				
Toilets 5	15	W/m2				
Toilets 6	15	W/m2				
Plantrooms	8	W/m2				1

Screen of General Information of Dynamic Energy Calculation





#### Facade and Roof of Warehouse





### Summary of Dynamic Energy Calculation of the Building for BREEAM Assessment

Indicator	Baseline	The Project
Overall final energy performance (electricity + fuel) (kWh/m²/year)	215	95
Overall final energy consumption (electricity + fuel) (MWh/year)	7,856	3,474
Energy savings of electricity (kWh/m²/year)	-	31
Energy savings of electricity (MWh/year)	-	1,132
Energy savings of heat and fuel (kWh/m²/year)	-	89
Energy savings of heat and fuel (MWh/year)	-	3,250
Primary energy savings (KJ/m²/year)	-	2,754
Primary energy savings (MJ/year)	-	100,697

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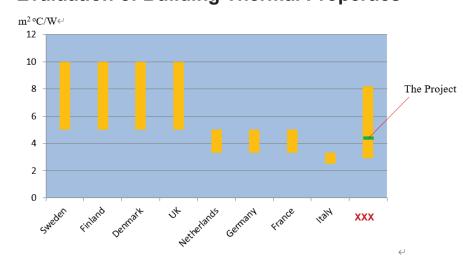
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# Case Study of Energy Audits (1)



ÍÌCA



# **Evaluation of Building Thermal Properties**

# Examined EE&C Technologies (additional study)

Examined technologies	Examination / Evaluation	Financial Analysis
Combined Heat & Power (co-generation)	Proposed	<ul><li>Investment cost</li><li>Cash-flow</li></ul>
Variable speed control units (inverters)	Proposed	<ul><li>Pay back period</li><li>IRR</li></ul>
Efficient transformer	Proposed	• NPV
Renewable energy	Already included	-
Peak shaving	Not necessary (high load factor)	-
Building envelope performance	Good (see next slide)	-

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### **Mining Plant Project**



# Case Study of Energy Audits (2)

### Examined EE&C Technologies

Examined technologies	Examination / Evaluation	Financial Analysis
Efficient motors	Proposed	Investment cost
PV system	Proposed	<ul> <li>Cash-flow</li> <li>Pay back period</li> </ul>
PV system with financial incentives	Proposed	<ul><li>Pay back period</li><li>IRR</li><li>NPV</li></ul>
Inverter to motors	Already included	
Improvement of power factor of receiving ends	Analyzed high enough	
Inverter to compressors	Recommended	
Efficient transformers	Recommended	
Efficient lighting	Recommended	
Electrically-driven dump trucks for a mine	Recommended	
Trolley dump trucks for a mine	Recommended	
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# Case Study of Energy Audits (2)





Source Energy Conservation Centre of Japan Electrically-driven dump trucks for a mine



Source Energy Conservation Centre of Japan Electrically-driven dump trucks for a mine

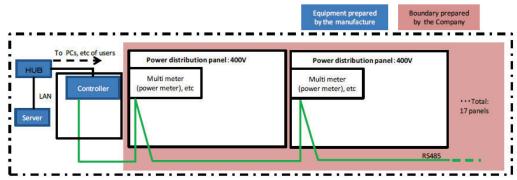
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# Case Study of Energy Audits (2)



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### Structure of EMS for 17 Power Distribution Panels

### Estimates for the introduction of EMS

Item	Cost (USD)
The cost of the hardware and software	XXXXX
The cost of design, installation and construction	XXXXX
The total cost of introduction of EMS	XXXXX

# Case Study of Energy Audits (2)



# ise study of Ellergy Adults (2)

### **Representative Monitoring Items and Functions with the EMS**

Monitoring items and functions	Comments
Peak demand of electric power	Alarm function included. ( in case of exceeding threshold value)
Demand history of electric power	Displaying the power demand history.
Power consumption history by the distribution panel	Displaying the power demand history by the equipment groups.
Analysis by the output level (e.g. in manufacturing) and energy management (targets/actual results)	Analysis by the output level and equipment groups. The following targets and actual results to be displayed in the tables and the graphs on monthly basis. a. Electric power consumption b. Primary energy consumption c. CO <sub>2</sub> emissions d. Costs
Creation of the reports	Creation of the reports on daily, monthly and yearly basis regarding energy consumption.
Creation of the reports required by the government	Creation of the reports to be submitted to the government.

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# Outline of the Aquarium & Amusement Park



- ✓ The company was Established in 1990.
  - $\checkmark$  The amusement park was opened in 1993.
  - ✓ Annual number of visitors; 4 to 5 million (Top 5 in Japan).
  - ✓ The park is <u>type-1 designated energy management factory</u> under "the law concerning the Rational Use of Energy".
  - Three-story aquarium with thousands of fish which is one of the largest in Japan.
    - ⇒ A lot of cold energy & heat (chilled & hot water) are necessary to maintain water temperature in water tanks constant all year around as well as space heating & cooling for visitors.

Other attractions

- > Vertical fall amusement (BLUE FALL) with 107 meters high.
- > Japan's first roller coaster that swings out over the ocean.
- World famous Merry-Go-Round with thousands of lights glittering.

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# 4 WANTS in the Company

- 1. Cut energy cost
- 2. Improve the efficiency of maintenance and operation of facilities
- 3. Promote further energy savings and environmental measures
- 4. Asset-light business operation by reducing investments

### - Two major backgrounds in Japan

- ✓ Increasing interests in energy savings by the law concerning the Rational Use of Energy.
- ✓ Increasing interests in CO₂ emissions reduction.



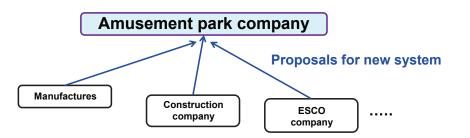
# Outline of the Aquarium & Amusement Park











- Several companies proposed new system.
- Amusement park company itself analyzed and examined each proposal for more than a year.
- In the process of examination, the responsible person was appointed by the company played an important role on;
  - Providing suggestion to management from technical angle.
  - Verification of various figures indicated in proposals such as consumption of electric power, city gas, water.

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# Key Point 2 for Realization of 4 WANTS

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### Adoption of high efficiency heat pumps

- > The industry's first large-scale heat pumps with high efficiency.
- This heat pump won the Minister of Economy, Trade and Industry Prize at the Energy Conservation Awards.



- 1. Reduction of maintenance fee for co-generation
- 2. High efficiency system which contributes to energy savings and CO<sub>2</sub> reductions
- 3. Simple system toward the realization of efficient operation

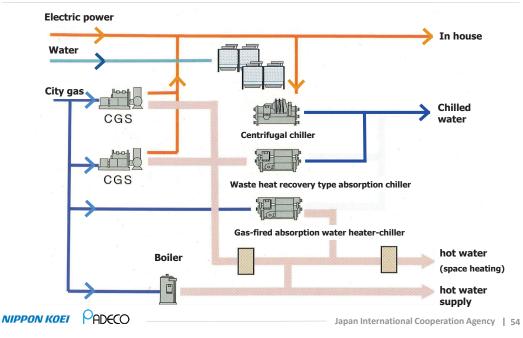
# Stop operation of co-gen (2 units) and introduction of high efficiency air-source heat pumps instead.

In case of air-source HPs, cooling water necessary in the existing system will not become necessary by air-source HPs.

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# System Comparison – existing system -



## System Comparison – renewed system -



200

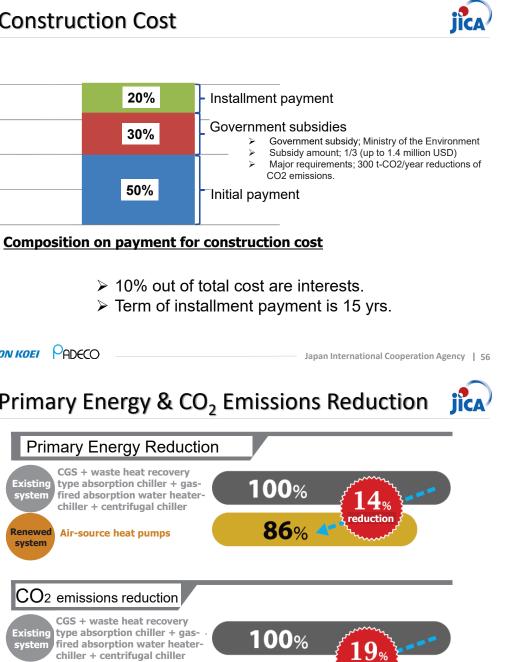
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### **Construction Cost**

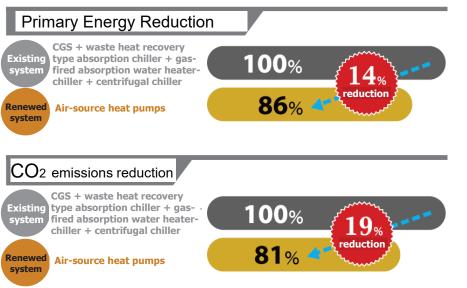


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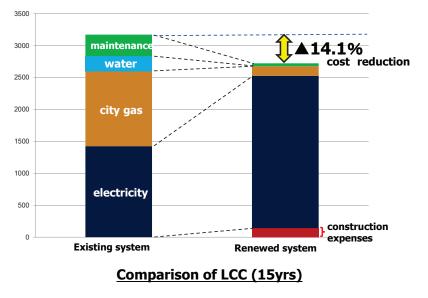
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# Primary Energy & CO<sub>2</sub> Emissions Reduction

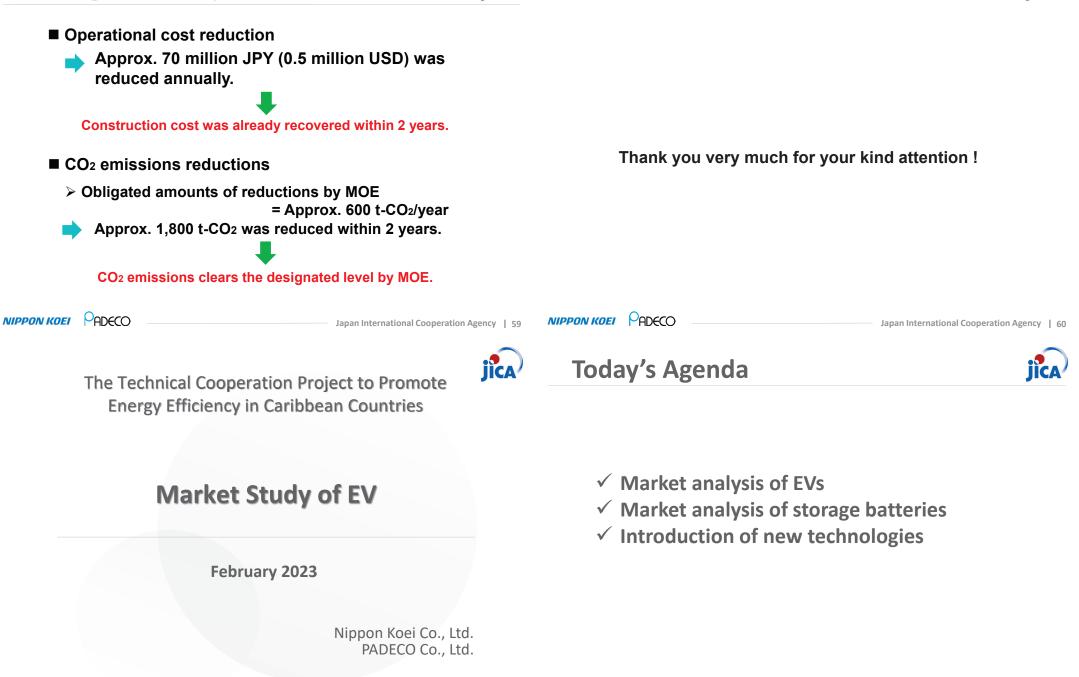


#### Electric power In house Air-source heat pumps Air-source heat pumps Chilled water & hot water (space heating) Air-source heat pumps Boiler City gas hot water supply New system is more simple. $\Rightarrow$ Needs no water and less space. NIPPON KOEI Japan International Cooperation Agency | 55

# Comparison of Life Cycle Cost



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#### Different types of EVs

	Automobile
With battery for drive	<b>BEV: Battery-powered vehicle</b> HV: Hybrid vehicle PHEV: Plug-in hybrid vehicle
No battery for drive	FCV: Fuel-cell vehicle (hydrogen vehicle) Solar car Trolley bus

Ref. UZABASE

ICV: Internal Combustion Engine Vehicle

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# **Different Types of EVs**

**1. Different Types of EVs** 

Pros & Cons of EVs

- ICV: Internal Combustion Engine Vehicle
- BEV: Battery-powered vehicle
- PHEV Plug-in hybrid vehicle FCV: Fuel-cell vehicle (hydrogen vehicle)

	Pros	Cons
ICV	<ul> <li>Cheaper to buy</li> <li>Longer driving range</li> <li>Wider cabin space</li> <li>Good infrastructure (many gas stations)</li> <li>Short refueling time</li> </ul>	<ul><li>Higher CO2 emission</li><li>Higher running cost</li></ul>
BEV	<ul><li>No CO2 emission</li><li>Cheap running cost</li><li>Can be charged at home</li></ul>	<ul> <li>More expensive than ICV</li> <li>Shorter driving range</li> <li>Limited cabin space</li> <li>Limited number of charging stations</li> <li>Longer charging time (rapid charge takes 30 mins)</li> </ul>
		Ref. UZABASE

Different Types of EVs

Pros & Cons of EV

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- Internal Combustion Engine Vehicle Battery-powered vehicle
- Plug-in hybrid vehicle
- PHEV: FCV: Fuel-cell vehicle (hydrogen vehicle)

	Pros	Cons
HV/PHEV	<ul> <li>Longer driving range</li> <li>Lower CO2 emission</li> <li>Cheaper running cost than ICV</li> <li>Good infrastructure (many gas stations)</li> <li>Short refueling time</li> <li>PHEV can be recharged at home</li> </ul>	<ul> <li>More expensive to buy (because there are 2 driving systems of ICV and BEV)</li> <li>Limited cabin space</li> </ul>
FCV	<ul> <li>Longer driving range</li> <li>No CO2 emission</li> <li>Wider cabin space</li> <li>Short filling time (takes 5 mins)</li> </ul>	<ul> <li>Limited number of hydrogen filling stations</li> <li>Limited car models</li> </ul>

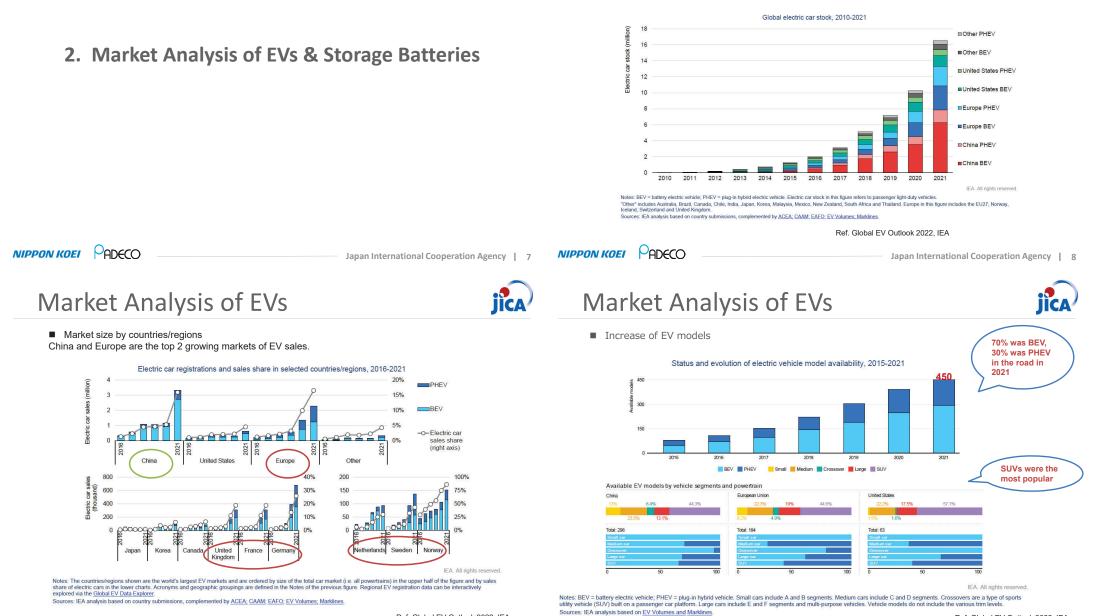
ICV:

BEV:



#### Market size of EVs

The EV market is rapidly growing, and sales of EVs were 6.6 million units in the world in 2021. There were over 16.5 million EVs on the road. EVs are 10% of all vehicles.



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Ref. Global EV Outlook 2022, IEA

Ref. Global EV Outlook 2022, IEA

# Market Analysis of EVs

Increase of EV models and sales



Market Analysis of EVs

Future EV market size

- The total sales of EVs is expected to be 18 million units in 2025 and over 30 millions in 2030.
  - ICV will be 13% of new car sales in 2025, and over 20% in 2030. EV will be the main passenger car in the world.



Ref. Global EV Outlook 2022, IEA

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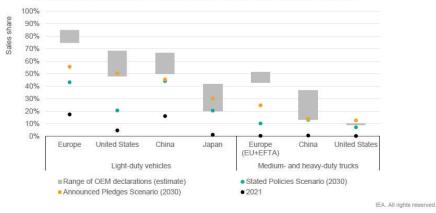
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# Market Analysis of EVs

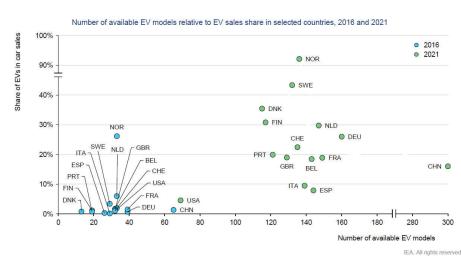
- .
- Policy and Regulation

#### Zero emissions vehicle announcements by automakers are more ambitious than policy targets

#### OEM targets and registrations in the Stated Policies and Announced Pledges scenarios, 2030



Ref. Global EV Outlook 2022, IEA



Notes: EVs = BEVs and PHEVs. Vehicle models do not include the various trim levels. Sources: IEA analysis based on EV Volumes.

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Ref. Global EV Outlook 2022, IEA

# Market Analysis of EVs



#### Policy and Regulation

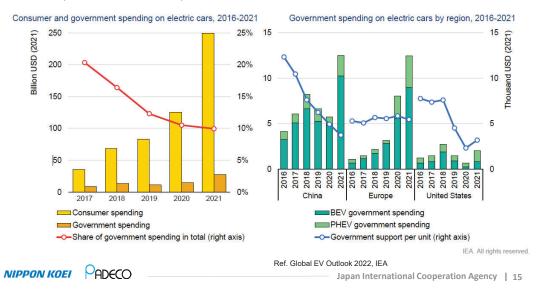
#### Automobile regulation of each country, subsidy and policy for EVs

Country	Regulation	EV Subsidy & Policy
China	Introduce NEV regulation to produce and import 10% of NEV (EV, PHEV, FCV) out of 30,000 units of yearly production and import vehicle.	Subsidy for BEV, PHEV No tax for purchasing BEV, PHEV Mitigation measure of issuing number plate of BEV Increase number of NEV sales to 20% by 2025.
EU	The "Green Deal Policy" launched by the European Union in 2019 aims to reduce carbon emissions by at least 50% by 2030 and achieve carbon neutrality targets by 2050.	<ul> <li>Germany</li> <li>Subsidy for BEV, PHEV</li> <li>10yrs preferential treatment of car tax (5yrs no tax and 5yrs 50% tax reduction)</li> <li>France</li> <li>Subsidy for BEV, PHEV</li> <li>Penalty in case CO2 emission is over 120g/km</li> </ul>
US	Introduced ZEV regulation to promote sales of new generation vehicle to reduce CO2 emission	Subsidy for BEV, PHEV
Japan	Reach 30% of EV sales by 2030 Set goal of fuel consumption of new car to 25.4km/l by 2030 (19.2km/l in 2016).	Subsidy for BEV, PHEV No tax for purchasing BEV Preferential treatment of car tax by regional government



#### Subsidies

Chinese and European governments spent more money on EVs. Sales price of EVs remain cheaper in China.



# Market Analysis of EV Batteries



- Market size of EV batteries
- The EV battery market is expected to be worth 218.47 billion USD by 2027, from 34.08 billion USD in 2020 (CAGR of 31.56%).
- · The lithium-ion battery segment is expected to dominate the market.
- There are technological advancements of the lithium-ion battery market and reduced the overall cost of lithium-ion battery production.
- Asia Pacific is expected significant growth in the EV battery market due to increasing demand from China, India, Japan, and other countries.
- The increasing share of EVs and rising sales volumes are also driving demand for lithium-ion battery in the U.S. and Europe("Green Deal Policy").

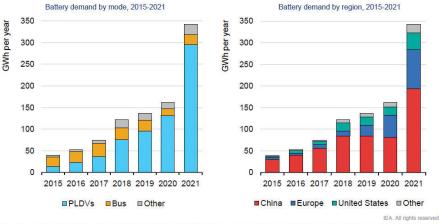


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# Market Analysis of EV Batteries

#### Increase market demand of EV batteries



Notes: GWh = gigawatt-hours; PLDVs = passenger light-duty vehicles; other includes medium- and heavy-duty trucks and two/three-wheelers. This analysis does not include conventional hybrid vehicles. Sources: ICA analysis based on EV Volumes.

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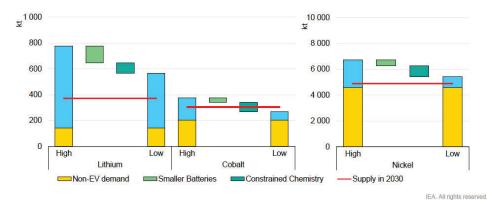
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# Market Analysis of EV Batteries

Increase market demand of EV batteries

Demand side measures such as limiting the growth of battery size can help bridge the gap

#### Measures to lower metal demand in 2030 in the Net Zero Scenario



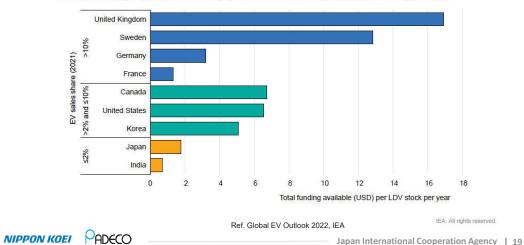
Notes: NZE = Net Zero Emissions by 2050 Scenario; STEPS = Stated Policies Scenario; APS = Announced Pledges Scenario. Sources: IEA analysis based on <u>Benchmark Mineral Intelligence</u> for supply capacity.



# jica

China and Europe boast the largest EV charging networks in the world. Governments provide subsidies for installation of charging stations.

Government funding for publicly available charging infastructure normalised by LDV stock and funding period, 2021



### 3. Analysis of EV Markers



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# Analysis of EV Markers

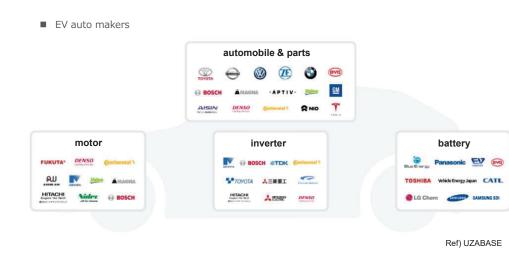


# Analysis of EV Markers

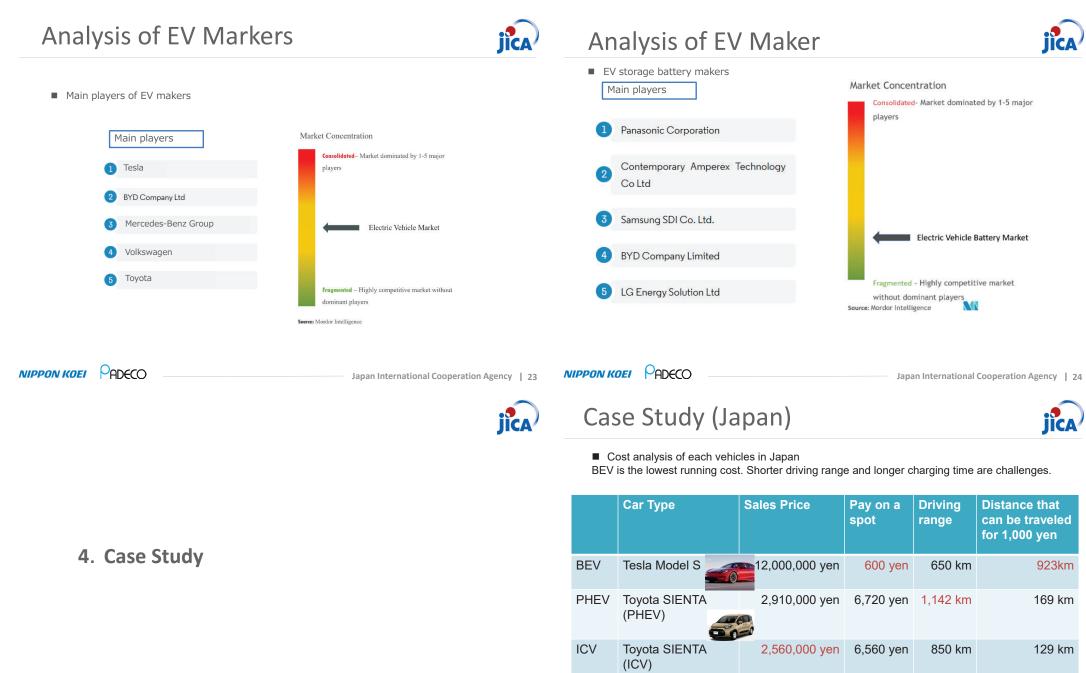
EV auto makers

Companies included in the EV, battery and top-ten automaker indices

EV index	Battery index	Top-ten automaker index	
<ul> <li>Tesla</li> <li>Lucid Group</li> <li>Rivian Automotive</li> <li>NIO</li> <li>Li Auto</li> <li>XPeng</li> <li>Fisker</li> <li>Nikola</li> <li>Arrival</li> <li>Proterra</li> <li>Lion Electric</li> <li>Hyzon Motors</li> <li>Canoo</li> <li>Hylion Holdings Corp</li> </ul>	<ul> <li>LG Energy Solution</li> <li>BYD</li> <li>Contemporary Amperex Technology Ltd</li> <li>Samsung SDI</li> <li>Gotion High-Tech</li> <li>Eve Energy Co</li> <li>Farasis Energy Gan Zhou</li> </ul>	<ul> <li>Toyota Motor</li> <li>Volkswagen</li> <li>Kia</li> <li>General Motors</li> <li>Ford Motor</li> <li>Nissan Motor</li> <li>Stellantis</li> <li>Renault</li> <li>Hyundai Motor</li> <li>Mercedes-Benz Group</li> </ul>	



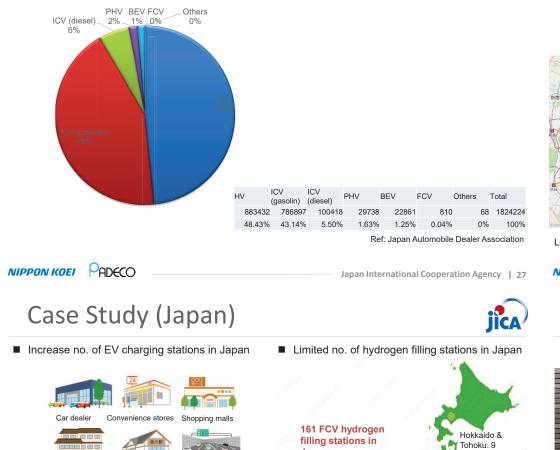




Ref. Tesla Japan, Toyota, https://car.rakuten.co.jp/magazine/articles/2022/carlife05/

(国所/单位:千)

Car Sales by Fuel Type in Japan (January to October 2022)







Comparison of infrastructure in Japan

Fuel stations:	28,500	ICV:	Internal Combustion Engine Vehicle
EV charging stations:	21,000	BEV:	Battery-powered vehicle
FCV hydrogen filling stations:	161	FCV:	Fuel-cell vehicle (hydrogen vehicle)
(as of			

Increase no. of EV charging stations



Location of EV charging stations in central Tokyo

NIPPON KOEI PADECO

Ref. GoGoEV, NeV, ENEOS, Toyota Mirai

Cost of installation of charging station in Japan

Case Study (Japan)

Different types of EV stations



PADECO

NIPPON KOEI

Limited no. of hydrogen filling stations



Location of FCV hydrogen stations in central Tokyo (5 stations only)

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Rapid charging station: 21,500-36,000USD Normal charging station: 1,500 -2,900USD Plan of EV stations for general customers in Japan Plan to use EV Rapid Normal charging station charge plan Charge

		plan	
Charging machine	Rapid charger	Normal charger	Both
Monthly plan	28.5 USD/mo	10 USD/mo	31.5 USD/mo
Pay on a spot	0.1 USD/min	0.02 USD/min	0.1 USD/min 0.02 USD/min
Registration charge		10 USD	

Ref. Guliver, GoGoEV, NeV, ENEOS

Combine

plan



# Case Study (Japan)



# Case Study (Japan)

#### Consumer price: 8-8.7 USD/Litter

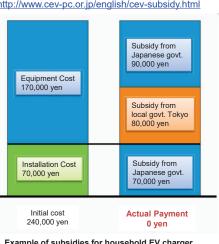


Installation of household charging plugs: JPY 40,000-120,000 (USD 270-820)

Running cost: EV < ICV</p>

Household EV charger

When you drive 10,000km with EV (Nissan Leaf) and ICV (Toyota Prius), running cost of Nissan Leaf is JPY 30,000 (USD 200) cheaper than Toyota Prius.



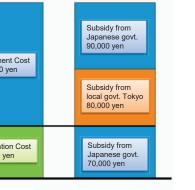
NIPPON KOEI PADECO

NIPPON KOEI PADECO

# Case Study (Japan)

#### Japanese EV makers analysis

Name	Area	Analysis
Toyota	Automobile	<ul> <li>Focused on PHEV, FCV &amp; BEV. By 2025, Toyota will introduce EV (PHEV, BEV, FCV) in all models.</li> <li>BEV for personal mobility (car for 1-2 passenger use), connected EV &amp; MaaS (Mobility as a Service).</li> <li>Creating EV platform called 'e-TNGA' with Subaru for efficiency of EV development.</li> </ul>
Nissan	Automobile	<ul> <li>Nissan set goal of EV &amp; e-POWER sales ratio as 30% by 2022.</li> <li>Nissan developed a simple Hybrid system called 'e-POWER', which uses engine only for power creation. E-POWER can realize shorter charging time and cheap selling price.</li> <li>Nissan also develops small EVs.</li> </ul>
Panasonic	Electronics	<ul> <li>Operating EV battery factory 'GIGA factory' with Tesla.</li> <li>In April 2022, Panasonic established 'Prime Planet Energy &amp; Solutions' with Toyota to produce EV battery.</li> <li>Panasonic launched EV with self-driving system called Spacy.</li> </ul>
Prime Earth EV energy	Battery	<ul> <li>Toyota and Panasonic established together in 1996 to produce EV battery.</li> <li>Increasing production capacity based on Toyota's plan.</li> <li>A factory for HEV battery (nickel metal hydride battery) was established in 2021.</li> </ul>
0		



Example of subsidies for household EV charger

#### Ref. ENECHANGE

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Different types of FCV hydrogen filling stations





@Hydrogen filling station







@ Liquefied petroleum gas station

Cost of installation of hydrogen filling station in Japan 500 million yen (3.6 million USD) Installation : 350 million yen (2.5 million USD) Subsidy of govt : Initial cost: 150 million yen (1.1 million USD)

Ref. https://www.jhym.co.jp/station/

PADECO NIPPON KOEI

# Case Study (Japan)

Each Japanese makers analysis

Name	Area	Analysis
Prime Planet Energy & Solutions	Battery	<ul> <li>EV battery maker for Lithium-ion battery funded by Toyota (51%) and Panasonic (49%).</li> <li>Developed EV battery for all-solid battery and started operation in April 2020.</li> <li>Provide batteries not only for Toyota but also for other makers.</li> </ul>
Denso	Electronic parts for automobile	<ul> <li>Toyota was agreed to business transfer and Denso of main electronic parts business (such as inverter, motor, semiconductor) to increase competitive advantage.</li> <li>To develop auto driving car, Denso strength cooperation with Toyota.</li> </ul>
Aishin Seiki	Powertrain	• For development of auto driving car, management integration with subsidiary named Aishin AW in April 2021, and changed company name to Aishin. Mass production of EV motor parts started in 2020 and supply the parts to Toyota EV production in China.
Hitachi Automotive Systems	Electronic parts for automobile	<ul> <li>Provide EV motor to GM (General Motors), Inverter to GM, Ford Motors, Mercedes, BMW etc.</li> <li>In October 2019, management integration with Honda suppliers (Kehin, Nisshin Kogyo, and Showa) in purpose to become a maga player in the field of auto powertrain, chassis, self-drive, and ADAS (Advanced driver-assistance systems).</li> </ul>
		Japan International Cooperation Agency







@ Airport

- https://www.etic.co.jp/feature/hydrogen-station1118//
- Japan International Cooperation Agency | 32





#### Each Japanese makers analysis

Name	Area	Analysis
Meidensha	Heavy power (Power equipment)	<ul> <li>Provide EV motor and inverter to Mitsubishi auto factory.</li> <li>Invested 7 billion yen to equipment facility at 3 factories in 2018.</li> <li>Invested to subsidiary Meidensha for EV production in China in 2019.</li> <li>Established new factory development for motor and invertor with investment of 5 billion yen in Feb 2020.</li> </ul>
NiDec	Motor	<ul> <li>Produce EV motor, and parts of together with motor and inverter.</li> <li>Order of EV motor was rapidly increased by 2023, decided to expand production lines in Poland and Mexico in addition to a current factory in China.</li> </ul>
Mitsubishi Electric	Electronics	<ul> <li>Provide inverter to Honda, Suzuki and Daimler.</li> <li>Develop V2H (Vehicle to Home) system, that utilize EV battery for household power supply.</li> </ul>
TDK Automotive Technologies	Inverter	<ul><li>EV inverter maker funded by TDK (75%) and Toshiba (25%).</li><li>Provide inverter to Volkswagen and Ford Motors etc.</li></ul>

## Case Study (Barbados)

- EV Dealers in Barbados
  - Megapower Barbados https://www.megapower365.com/ Private vehicles MG NISSAN JAGUAR

 Commercial vehicles BYD (bus, van, trucks etc.)

@Megapower

150,000 BBD

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Private vehicles Hyundai (EV and HV)





@av motors 55,900 BBD

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## Case Study (Barbados)



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Case Study (Barbados)



Cost of charging station

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- 0.15 kWh/km to 0.2 kWh/km
- About 2,200 to 2,900 kWh of electricity per year
- About \$1,300 to \$1,700 per year in electricity based on our residential tariff
- Megapower rate

Top-up charger (Garo)	\$1.5/kWh
Medium & fast chargers (DBT)	\$1.75/kWh
All you can charge	\$600/month
All you can charge (non- megapower Evs)	\$1,000/month

 Charging speed Ultra charger 100kW: 30-45 mins Rapid charger 25kW: 2-3 hours Fast charger 7.2kW 10-16 hours

Flat road. More charging stations. Commercial & tourist areas.

Ref) The Barbados Light & Power Company Limited, Megapower NIPPON KOEI PADECO

#### Map of EV Charging Station

Ref. SPEEDA



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@COURTESY

117,995 BBD

- New Incentives of the Barbados Government
- Government workers who can borrow up to \$100,000 interest-free for purchase an electric or ٠ hybrid vehicle (it was \$50 000 for vehicle purchase)
- Tax and VAT holiday on electric vehicles for 24 from April 1, 2022. Also, 10% import duty for the next two years on the purchase of electric vehicles".

Ref) Electric cars tax breaks, but new alternate levy https://barbadostoday.bb/2022/03/15/electric-cars-tax-breaks-but-new-alternate-levy/



## Introduction of New Technology



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Toyota's Woven City: a Prototype City of the Future

YouTube Video: https://www.youtube.com/watch?v=ng3X39lenvg

Toyota has revealed plans to build a prototype "city" of the future on a 175-acre site at the base of Mt. Fuji in Japan.

Called the Woven City, it will be a full connected ecosystem powered by hydrogen fuel cells. Envisioned as a "living laboratory," the Woven City will serve as a home to full-time residents and researchers who will be able to test and develop technologies such as autonomy, robotics, personal mobility, smart homes and artificial in a real-world environment.

Read more about Toyota's Woven C https://blog.toyota.co.uk/toyota-wove...



#### NIPPON KOEI PADECO

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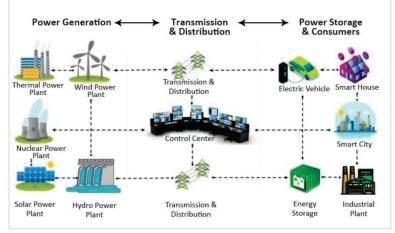
## Introduction of New Technology

5. Introduction of New Technology



Smart Grid is the integration of our existing Electrical Grid with **2-way communication** and **digital sensing technology** in order to enhance the capabilities of the current grid and make it more secure, reliable, efficient, and self-sufficient.

### Smart Grid : The Electrical Grid of the Future



## Introduction of New Technology

Wireless Transmission

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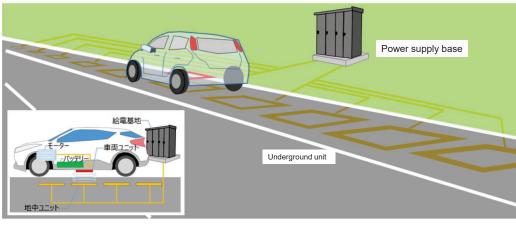


Image of wireless charging of EV

Ref) https://www.toyota.co.jp/jpn/tech/partner\_robot/news/202112\_01.html

## Introduction of New Technology





Experiment of PV and wireless charging system

https://media.dglab.com/2022/05/02-dwpt-01/

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## Introduction of New Technology



#### Electric carrier ship

Power X is an electric carrier ship that stores electricity generated from the ocean in batteries and transports it. Power X Inc. manufactures and operates large storage batteries and deliver clean power generated by offshore wind power stations to around the world.

Conventional power transmission systems using submarine cables are problematic in terms of installation costs (e.g., drilling of the seabed) and environmental impact, but Power X does not require large-scale construction work and has minimal environmental impact.

## Introduction of New Technology

#### Wireless Transmission



Image of wireless transmission to a large flying object for use in a communication network

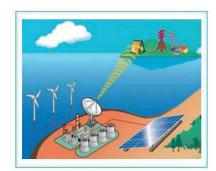


Image of wireless transmission to remote islands \*There is a plan to build a PV generation facility in space for wireless transmission.

Ref. https://www.ieice.org/~cs-edit/magazine/ieice/spsec/Bplus57_sp	o.pdf

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## Thank you!



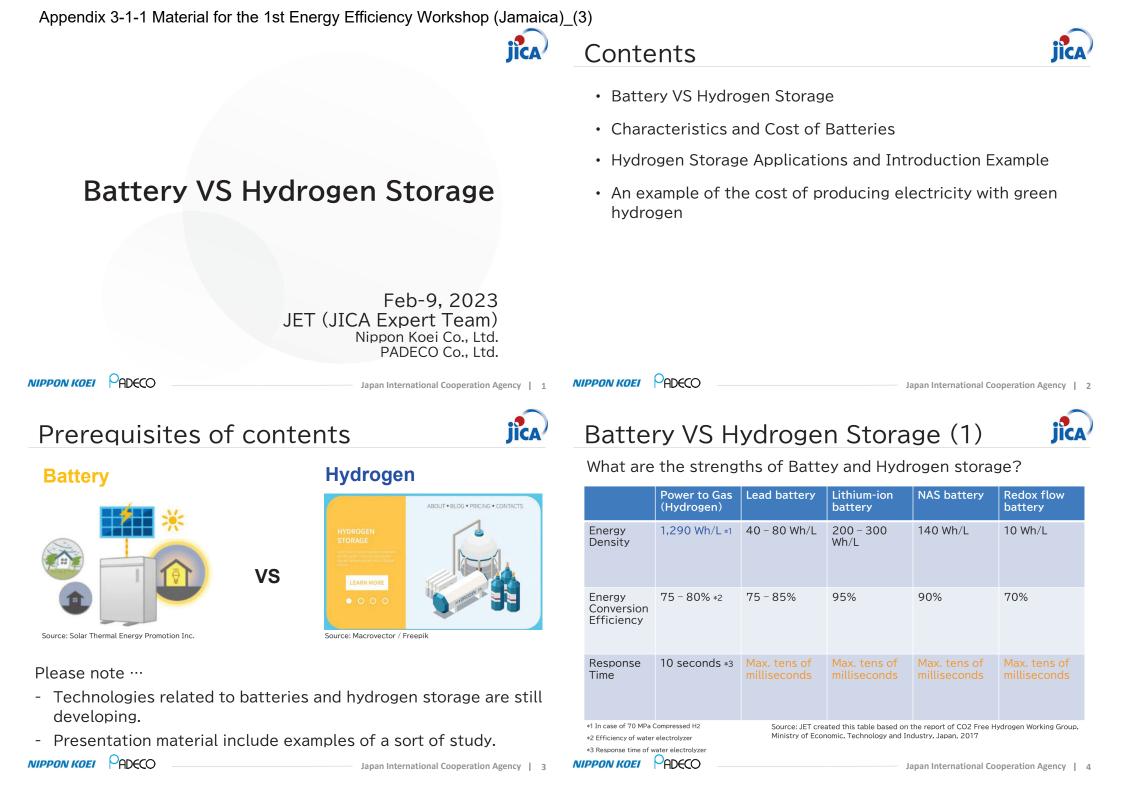
JICA Expert of Human Resources Development/Monitoring Project Consultant @PADECO



#### Ref. Power X, PowerX, Inc. (power-x.jp)

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NIPPON KOEI 





What are the strengths of Battey and Hydrogen storage?

### 1. Battery

Fast response speed

⇒ Superior ability to follow output fluctuations of renewable energy

### 2. Hydrogen Storage

High energy density

 $\Rightarrow$  Suitable for large-volume and long-term energy storage

Before discussing costs, let's first look at the different characteristics of each

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## Characteristics of Batteries (1)



NIPPON KOFI

### The characteristics of each typical battery are shown below.

	Advantage	Disadvantage
Lead-Acid battery	<ul> <li>Low manufacturing costs result in lower unit power costs</li> <li>Easy maintenance</li> </ul>	<ul> <li>Faster deterioration as the number of charge/discharge cycles increases</li> <li>Physically large</li> </ul>
Lithium-Ion battery	<ul> <li>Compact size and large capacity</li> <li>High-current charging and discharging</li> </ul>	<ul> <li>Fire hazard</li> <li>Extreme degradation after around 500 charge-discharge cycles</li> </ul>
NaS battery	<ul> <li>&gt; Durability</li> <li>&gt; High energy density</li> <li>&gt; Low cost</li> </ul>	<ul> <li>Requires about 300 Celsius degrees to operate</li> <li>Handling and disposal of hazardous materials such as sodium and sulfur</li> </ul>
Redox-flow battery	<ul> <li>Easy to scale up and suitable for large-capacity facilities</li> <li>Long cycle life, can be used for more than 10 years</li> </ul>	<ul> <li>Relatively low energy density</li> <li>Long installation period for large facilities</li> <li>Requires a large site</li> </ul>

Source: JET created this table based on the report of CO2 Free Hydrogen Working Group, Ministry of Economic, Technology and Industry, Japan, 2017

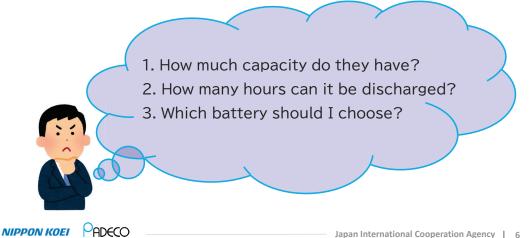


## Batteries Energy Storage System

### 1. Battery

Fast response speed

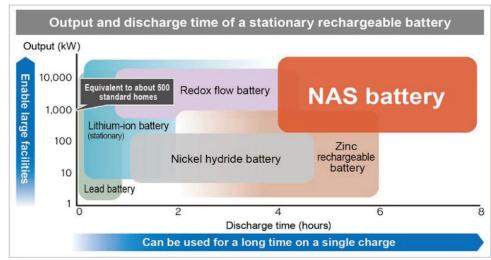
⇒ Superior ability to follow output fluctuations of renewable energy



## Characteristics of Batteries (2)



Storage batteries depend on capacity and discharge time.



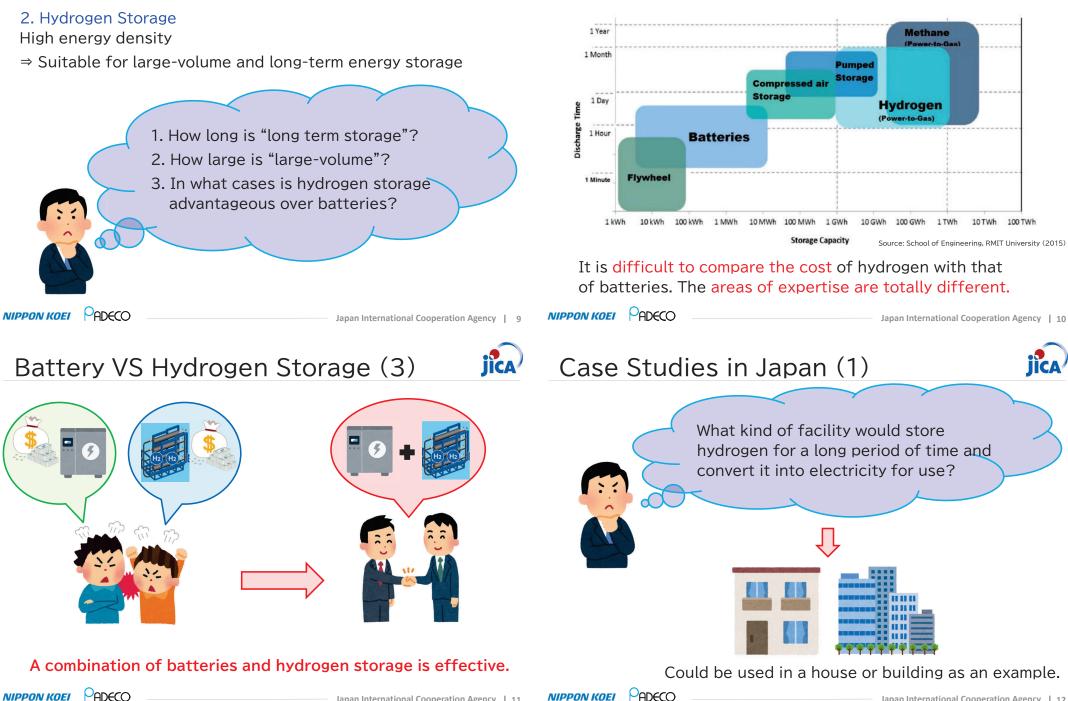
Source: https://www.mynewsdesk.com/ngk-insulators/news/sodium-sulfur-battery-technology-nas-battery-enables-megawatt-hour-energy-storage-realizes-a-stable-supply-of-renewable-energy-410813



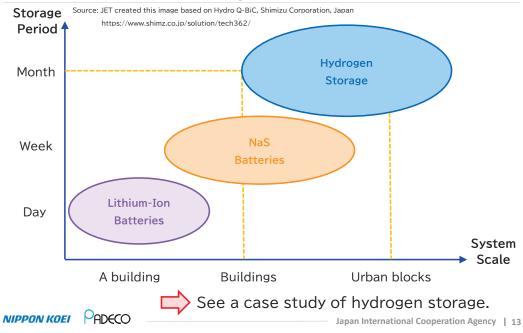
## Hydrogen Storage(1)



## Hydrogen Storage(2)



## Case Studies in Japan (2)



## Case Studies in Japan (3)

Buildings of wholesales market

7		Specifications	
		Location	Wholesales Market
		Power Demand	100 kW
		PV	64 kW
		Water Electrolyzer	5 Nm3/h
and a free of the last		Hydrogen absorbing alloy tank	(1) 80 Nm3 (2) 100 Nm3
		Fuel cell	14 kW
PV H	ydrogen Facilities	Batteries	20 kW – 20 kWh Lithium-Ion

Source: Hydro Q-BiC, Shimizu Corporation, Japan, https://www.shimz.co.jp/solution/tech362.

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## Case Studies in Japan (4)



Office Building (Zero Emission Building)



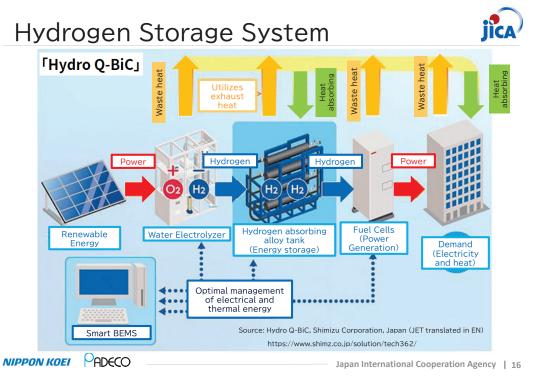
- Various energy-saving technologies
- PV system
- Hydrogen production and storage with PV surplus power

Source: Hydro Q-BiC, Shimizu Corporation, Japan,

https://www.shimz.co.jp/company/about/news-release/2021/2021006.html

Specifications	
Location	Office building
PV	140 kW
Hydrogen absorbing alloy tank	2,000 kWh
Hydrogen Facil	ities Basemen <sup>-</sup>





## What is "Hydrogen absorbing alloy"?

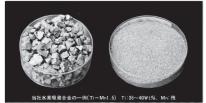
Alloy that absorbs hydrogen and releases.

> Compact storage of large volumes of hydrogen; compressed to about 1/1000th of its original volume

Cooling and

pressurization

 $\succ$  Low cylinder pressure reduces the possibility of leakage (Less than 1 MPa)

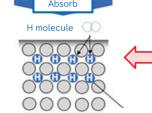


Source: http://www.daido-100th.com/topics/327

Absorb H molecule

Source:

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H atom

https://kompas.hosp.keio.ac.jp/sp/contents/medical\_info/science/201912.html Japan International Cooperation Agency | 17

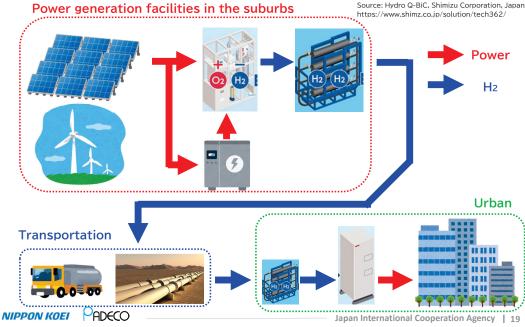
Heating or

decompression

Discharge

H molecule

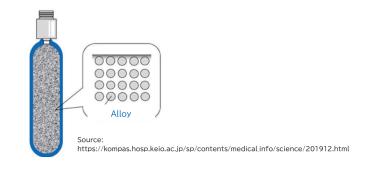
## Image of Hydrogen Utilization



# What is "Hydrogen absorbing alloy"?

The issue with hydrogen storage alloy tanks

- □ The tanks will be made of alloy, so they are heavier than cylinders such as compressed hydrogen
- □ Alloy prices are expensive as of 2022.



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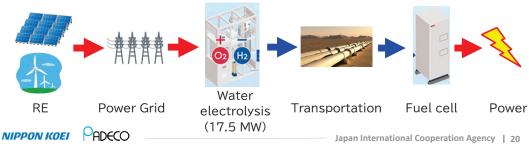




Systems using hydrogen storage alloy tanks are not yet at the commercial stage.

An example calculation of hydrogen production using RE through grid in one study and its generation costs as applied to the CARICOM region is presented below.

## [Equipment configuration]





This trial calculation based on purchasing electricity produced from renewable energy sources via the grid and using that electricity to produce green hydrogen.

Water electrolyzer rated capacity (Rated input power)	17.5	MW
Annual hydrogen production (ton)	2,936	ton/year
Annual hydrogen production (Nm3)	264,462	Nm3/year
Amount of electricity required per year	151,620	MWh/year
Variable-OPEX(Water)	67,714	USD/year
Variable-OPEX(Electricity)	24,115,195	USD/year
LCOH (price of equalized hydrogen)	9.89	USD/kg-H2
Source: Created by JET		

## Conclusion

### Battery Storage

Batteries and hydrogen storage have different areas of expertise, so choose based on features, not cost.

### Method of Hydrogen Storage

In addition to compressed hydrogen and liquefied hydrogen, there are also storage methods using hydrogen storage alloys.

### Cost of Green Hydrogen

The unit cost of producing green hydrogen is high, but the cost can be reduced to some extent by direct using of renewable energy.

# Cost estimation of H<sub>2</sub> Production (2)

Green hydrogen price in 2022 is 5.5 - 9.5 USD/kg-H2, \* Depending on location and conditions.

Source: S&P Global Commodity Insights, USA

https://www.spglobal.com/commodityinsights/en/our-methodology/price-assessments/energy-transition/hydrogen-price-assessments/

In the CARICOM region, it is impractical to purchase electricity from renewable energy sources via the grid to produce green hydrogen.

If they can get the electricity needed for water electrolysis from their own renewable energy generation facilities

The cost of hydrogen production can be reduced.

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Thank you.

Technical Cooperation to Promote Energy Efficiency in Caribbean Countries

Energy Efficiency Workshop

List of Participants (Jamaica)

Lis	t of Participants for Online Atte	endance (9 Feb 2023)	Venue: Zoom		
No	Name	Agency	Title	Department	
1	Craig Rattary	Office of Utilities Regulation			
2	Horace Buckley	MSET	Director of Projects	Prog. Implementation Div.	
3	Steve Windross	JPS			

Lis	t of Participants for Online Atte	endance (10 Feb 2023)	Venue: Zoom		
No	Name	Agency	Title	Department	
1	Craig Rattary	Office of Utilities Regulation			
2	Andre Lindsay	Office of Utilities Regulation	Junior Engineer		
3	Horace Buckley	MSET	Director of Projects	Prog. Implementation Div.	

#### Technical Cooperation to Promote Energy Efficiency in Caribbean Countries

#### 1st EE Workshop: Q&A

No	Day	ltem	Content	Name	Answer
1	9-Feb	Question	How were the targets determined? Technology vs process/activity.	Craig Rattray	Energy managements needs to be carried out through actual data collection as it is a successful element.
2	9-Feb	Question	Does the cost of energy influence the pursued targets and if so, how?	Craig Rattray	The energy cost is very much an important factor particularly in Jamaica as the power rate is increasing and there is a spike in the energy price all over the world as well. Electric power, fuel cost, etc are all increasing and the user will determine the investment by various aspects. Based on experience, the payback period needs to be less than five years. Also, there are some incentives in many countries, Japan for instance gives financial support to invest in efficient technologies and the key point is how many years will it take to recover the investment. Oftentimes efficient technology is very expensive and cannot recover which commonly happens so governmental support is a key factor.
3	9-Feb	Question	What is your opinion on the competition between hydrogen fuel cell and technology? Which one do you see becoming predominant on the global scene?	Craig Rattray	It is difficult to decide/answer which will become predominant in the 2020s however possibly the answer will come in the 2030s.
4	10-Feb	Question	In your review, did you come across any situation where management had challenges getting persons complying with the requirements of energy efficiency improvements?	Craig Rattray	Yesterday, the standards of energy management was introduced and to implement successful energy management there first needs to be an establishment of an energy management team in the organization in which top management will supervise the team. An energy management manager needs to be appointed and relevant persons from various sections will join the team. The team must consider what will be the energy efficiency policies in their organization and discuss their energy saving targets. The energy management international standards mentions some steps to be taken to implement the successful energy management and to improve energy efficiency.

#### Technical Cooperation to Promote Energy Efficiency in Caribbean Countries

#### 1st EE Workshop: Q&A

No	Day	ltem	Content	Name	Answer
5	10-Feb	Question	Is the practice of offering incentives or benefits to the employees, was it considered in the approaches you reviewed?	Craig Rattray	There is some award system in Japan. If a very excellent job is carried out by a company/individual, the prize or reward will go to the energy efficiency manufacturers or an individual. This is the overall frame regarding awards as a governmental policy. In the private sector, in the case of Japan, we are a little bit more cautious with energy consumption. Also, two decades ago carbon reduction was very much an important task for Japanese private companies. For instance, Japanese major private sector federations such as electric power and large energy consumption organizations had to develop their plan to reduce carbon emissions about 20 or more years ago. So with this situation, the Japanese showed a lot of interest in carbon emissions and when the persons successfully implemented the cost reduction or energy efficiency improvement, I believe the person or the team is very proud of their achievements. I am not sure if the salary will become more however having been successful, they are proud of it because the people interested in energy efficiency improvement are very much satisfied to be recognized by their achievement in their entity/organization.
6	10-Feb		How did they control compatibility issues with the different connectors in Barbados?	Craig Rattray	At the front of your car, you can connect the plug to your car. The connectors operate similar to an electricity plug as there is a convertor plug; the market sells the convertor plug. Because they are only selling the limited types of electric vehicles in Barbados, there have been no issues heard of in relation to the difference of connectors however there can be problems like this and we will try to check about the information.
7	10-Feb		With the technology of wireless transmission of power, do you have any idea what frequency is used for long distance?	Craid Rattray	No, actually this is just an introduction of this technology. My background is business administration so I am not really sure about the technical aspects.

Appendix 3-2-1 Material for the 2nd Energy Efficiency Workshop (Jamaica)

Contents



### **Energy Efficiency & Conservation (EEC) Materiel** 1. Energy Consumption Analysis from Energy Balance Table **Technical Cooperation to Promote** 2. EEC Roadmap - Residential Sector -**Energy Efficiency in Caribbean Countries** 3. EEC Roadmap - Commercial Sector -4. Promising Energy Efficient Technologies in non-industrial Energy Consumption Analysis & EEC Roadmap sectors Jamaica, March 2023 5. References Nippon Koei Co., Ltd. PADECO Co., Ltd. PADECO NIPPON KOEI PADECO NIPPON KOEI Japan International Cooperation Agency Japan International Cooperation Agency | 2 **Energy Consumption Analysis from Energy Balance Table** Current situation : Energy consumption outlook by sector and energy source Transportation is the largest energy consuming sector (40%) followed by nonindustrial sector (31%, Residential & Commercial).

#### Oil products is the largest energy source (54%) followed by electricity (33%).

Energy consumption by sector and energy source on primary energy basis (2021, Thousand Barrels of Oil Equivalent (KBOE))

	Industry	Commercial	Residential	Other	Transportation	То	tal
Coal	497	-	-	-	-	497	3%
Natural gas	518	-	-	-	-	518	3%
Oil products	1,405	346	518	67	6,676	9,012	54%
Bio/RE	266	236	387	366	-	1,255	7%
Electricity (Primary energy basis)	1,757	1,980	1,726	32	-	5,494	33%
Total	4,443	2,561	2,632	465	6,676	16,777	100%
rotar	26%	15%	16%	3%	40%	100%	100%

Note 1: Primary energy conversion factor of electricity is utilized to evaluate the effect of energy saving by reduction of 1kWh of electricity consumption at demand side.

Note 2: To calculate primary energy consumption of electricity, energy efficiency at end use (39.0%) was used based on the energy balance by Government of Jamaica

Source: JET with reference to energy balances (2021) by the Government of Jamaica. https://www.mset.gov.jm/documents/energy-balances/

1. Energy Consumption Analysis from **Energy Balance Table** 

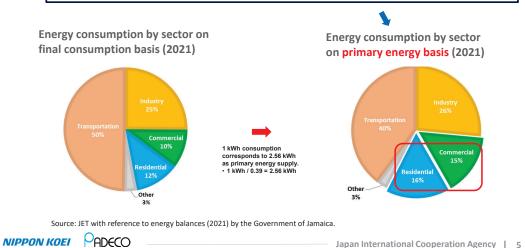
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## **Energy Consumption Analysis from Energy Balance Table**



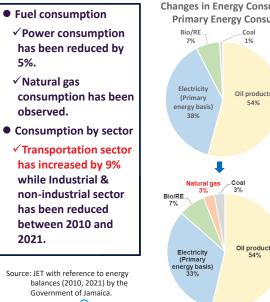
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- National Energy consumption should be evaluated on primary energy basis.
- **Commercial & residential sectors** share 31% of the primary energy consumption.

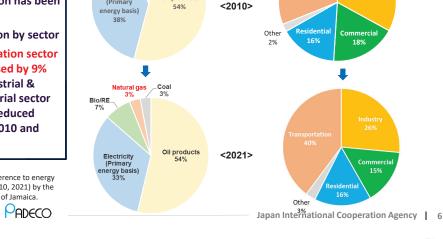


## **Energy Consumption Analysis from Energy Balance Table**





Changes in Energy Consumption Ratio by Fuel (left) and by Sector (right) on Primary Energy Consumption Basis from 2010 (upper) to 2021 (lower)



**Energy Consumption Analysis from Energy Balance Table** 

Energy Consumption by Fuel and by Sector on Final Consumption Basis (2021, KBOE)

	Industry	Commercial	Residential	Other	Transportation	То	tal
Coal	497	-	-	-	-	497	4%
Natural gas	518	-	-	-	-	518	4%
Oil products	1,405	346	518	67	6,676	9,012	67%
Bio/RE	266	236	387	366	-	1,255	9%
Electricity (Final consumption basis)	686	773	674	12	-	2,145	16%
Total	3,372	1,355	1,579	445	6,676	13,428	100%
	25%	10%	12%	3%	50%	100%	100%

Energy Consumption by Fuel and by Sector on Primary Energy Basis (2021, KBOE)

	Industry	Commercial	Residential	Other	Transportation	То	tal
Coal	497	-	-	-	-	497	3%
Natural gas	518	-	-	-	-	518	3%
Oil products	1,405	346	518	67	6,676	9,012	54%
Bio/RE	266	236	387	366	-	1,255	7%
Electricity (Primary energy basis)	1,757	1,980	1,726	32	-	5,494	33%
Total	4,443	2,561	2,632	465	6,676	16,777	100%
	26%	15%	16%	3%	40%	100%	100%

Note: To calculate primary energy consumption of electricity, energy efficiency at end use (39.0%) was used based on the energy balance by Government of Jamaica.

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Energy Consumption by Fuel and by Sector on Final Consumption Basis (2010, KBOE)

	Industry	Commercial	Residential	Other	Transportation	Tota	I
Coal	159	-	-	-	-	159	1%
Oil products	3,072	330	327	335	5,460	9,524	74%
Bio/RE	418	533	228	-	-	1,179	9%
Electricity (Final consumption basis)	654	702	675	14	-	2,045	16%
Total	4,303	1,565	1,230	349	5,460	12,907	100%
	33%	12%	10%	3%	42%	100%	

**Energy Consumption Analysis from Energy Balance Table** 

#### Energy Consumption by Fuel and by Sector on Primary Energy Basis (2010, KBOE)

	Industry	Commercial	Residential	Other	Transportation	Tota	
Coal	159	-	-	-	-	159	1%
Oil products	3,072	330	327	335	5,460	9,524	54%
Bio/RE	418	533	228	-	-	1,179	7%
Electricity (Primary energy basis)	2,148	2,306	2,217	46	-	6,718	38%
Total	5,797	3,169	2,772	381	5,460	17,580	
	33%	18%	16%	2%	31%	100%	100%

Note: To calculate primary energy consumption of electricity, energy efficiency at end use (30.4%) was used based on the energy balance by Government of Jamaica.

## **Energy Consumption Analysis from Energy Balance Table**



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- In past 10 years, final energy consumption has not changed much with slight increase of AAGR=0.1%
- Regarding fuel type, electricity consumption has increased with AAGR=1.1% while oil consumption has been decreasing.

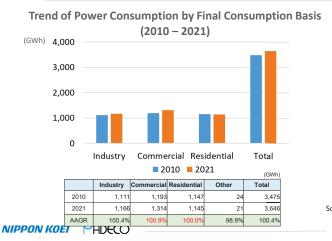
(LT)	Final Consumption by Fuel (1990 – 2020)		Trend of Final Consumption by Fuel (2010 – 2020) (ד)						
150k				2010	Share	2020	Share	AAGR	
			Electricity	11650	15%	12977	17%	1.1%	
100k	30k		Bio & Waste	4944	7%	5676	7%	1.4%	
50k			Natural Gas	-	-	2225	3%		
			Oil	58012	77%	52590	69%	-1.0%	
0 1990	1995 2000 2005 2010 2015 2020	)	Coal	1187	2%	2831	4%	9.1%	
	oal Oil Oil Natural Gas iofuels & Waste Electricity & Heat		Total	75793	100%	76299	100%	0.1%	
Source: Ui	nited Nations Statistics Division.								

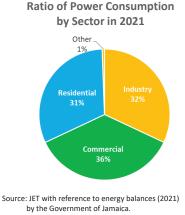
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Note: AAGR = Annual Average Growth Rate Japan International Cooperation Agency

## **Energy Consumption Analysis from Energy Balance Table**

- Energy efficiency efforts at demand side should be evaluated by final consumption basis when efficiency at supply side changes significantly.
- Non-industrial sector shares 67% of annual electricity consumption.
- AAGR between 2010 2021 was 100.4% (very slight increase).

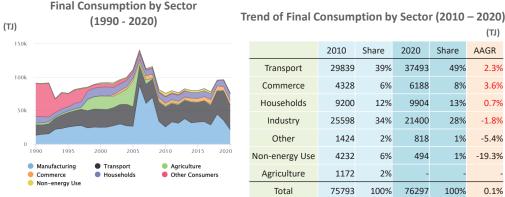




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### **Energy Consumption Analysis from Energy Balance Table**

In past 10 years from 2010 to 2020, commercial, transport and residential sectors have been increasing its final consumption while reduction has been observed in industrial sector.



					(TJ)
	2010	Share	2020	Share	AAGR
Transport	29839	39%	37493	49%	2.3%
Commerce	4328	6%	6188	8%	3.6%
Households	9200	12%	9904	13%	0.7%
Industry	25598	34%	21400	28%	-1.8%
Other	1424	2%	818	1%	-5.4%
Ion-energy Use	4232	6%	494	1%	-19.3%
Agriculture	1172	2%	-	-	-
Total	75793	100%	76297	100%	0.1%

Source: United Nations Statistics Division. PADECO NIPPON KOEI

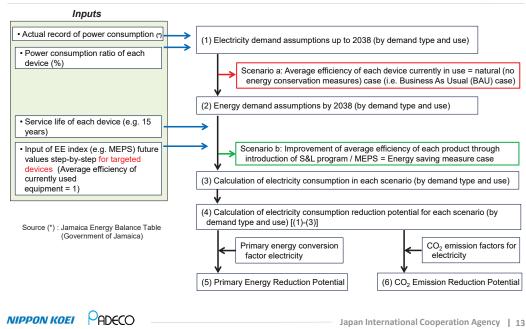
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## 2. Energy Efficiency & Conservation (EEC) Roadmap - Residential Sector -



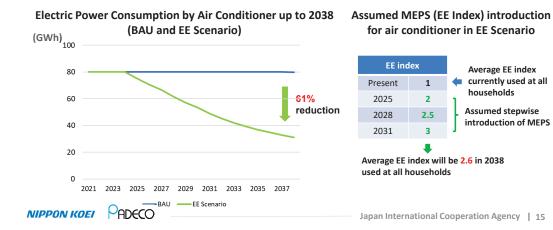
## Method of EEC Roadmap Development



## Energy Efficiency & Conservation (EEC) Roadmap

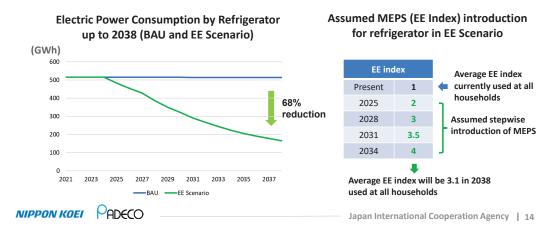


- Electric power consumption of air conditioner has been estimated to be reduced by 61% with EE Scenario compared with BAU Scenario in 2038.
- Energy efficiency of air conditioner in use at households will be 2.6 times more efficient compared with that of currently used in 2038 in EE Scenario with Introduction of MEPS.



## Energy Efficiency & Conservation (EEC) Roadmap

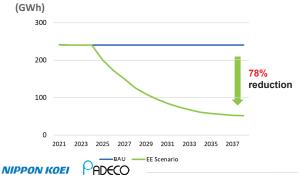
- Electric power consumption of refrigerator has been estimated to be reduced by 68% with EE Scenario compared with BAU Scenario in 2038.
- Energy efficiency of refrigerator in use at households will be 3.1 times more efficient compared with that of currently used in 2038 in EE Scenario with Introduction of MEPS.



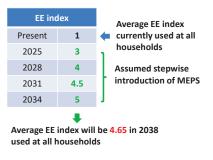
## Energy Efficiency & Conservation (EEC) Roadmap

- Electric power consumption of lighting equipment has been estimated to be reduced by 78% with EE Scenario compared with BAU Scenario in 2038.
- Energy efficiency of lighting equipment in use at households will be 4.7 times more efficient compared with that of currently used in 2038 in EE Scenario with Introduction of MEPS.

#### Electric Power Consumption by Lighting Equipment up to 2038 (BAU and EE Scenario)



#### Assumed MEPS (EE Index) introduction for lighting equipment in EE Scenario

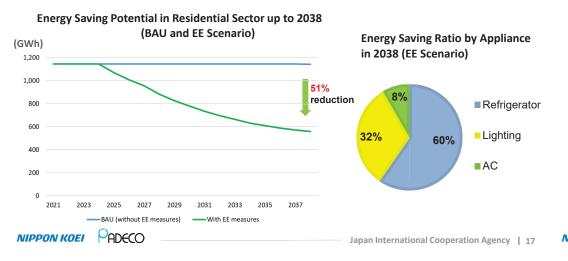




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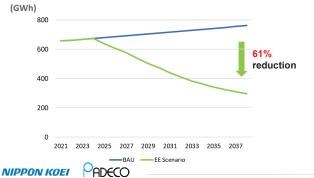
 With MEPS introduction targeting refrigerator, lighting equipment and air conditioner, it has been estimated power consumption will be reduced by 51% in 2038.



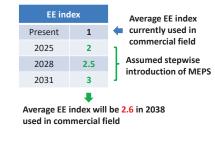
## Energy Efficiency & Conservation Roadmap -Commercial-



- Electric power consumption of air conditioner has been estimated to be reduced by 61% with EE Scenario compared with BAU Scenario in 2038.
- Energy efficiency of air conditioner in use at households will be 2.6 times more efficient compared with that of currently used in 2038 in EE Scenario with Introduction of MEPS.
- Electric Power Consumption by Air Conditioner up to 2038 (BAU and EE Scenario)



Assumed MEPS (EE Index) introduction for air conditioner in EE Scenario



## 3. Energy Efficiency & Conservation Roadmap -Commercial Sector-

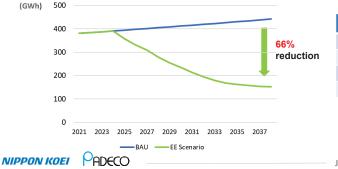
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Energy Efficiency & Conservation Roadmap -Commercial-

- Electric power consumption of lighting equipment has been estimated to be reduced by 66% with EE Scenario compared with BAU Scenario.
- Energy efficiency of lighting equipment in use at households will be 2.9 times more efficient compared with that of currently used in 2038 in EE Scenario with Introduction of MEPS.

Electric Power Consumption by Lighting Equipment up to 2038 (BAU and EE Scenario)



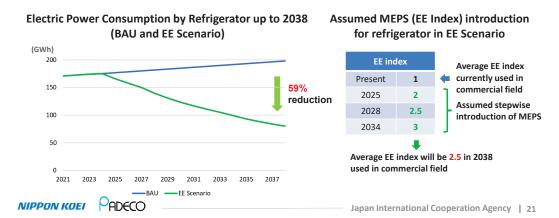
#### Assumed MEPS (EE Index) introduction for lighting equipment in EE Scenario

EE ind	EE index	Average EE index
Present	ent 1	<ul> <li>currently used in</li> </ul>
2025	25 <b>2</b>	commercial field
2028	28 <b>2.5</b>	Assumed stepwise
2031	31 <b>3</b>	introduction of MEP
0	ge EE index wil in commercial f	

## Energy Efficiency & Conservation Roadmap -Commercial-



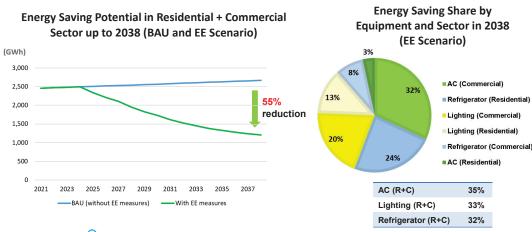
- Electric power consumption of refrigerator has been estimated to be reduced by 59% with EE Scenario compared with BAU Scenario in 2038.
- Energy efficiency of refrigerator in use at commercial field will be 2.5 times more efficient compared with that of currently used in 2038 in EE Scenario with Introduction of MEPS.



## EE&C Roadmap -Residential + Commercial Sectors-



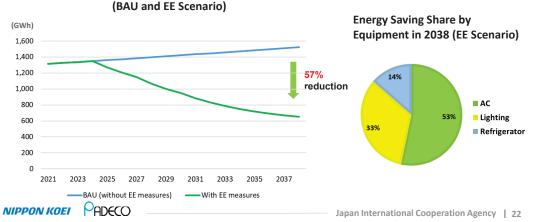
 With MEPS introduction targeting refrigerator, lighting equipment and air conditioner, it has been estimated power consumption will be reduced by 55% in residential and commercial sectors in 2038.



### Energy Efficiency & Conservation Roadmap -Commercial-

 With MEPS introduction targeting refrigerator, lighting equipment and air conditioner, it has been estimated power consumption will be reduced by 57% in 2038.

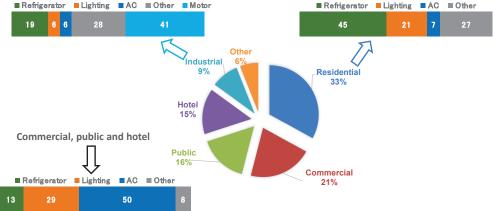
### Energy Saving Potential in Commercial Sector up to 2038



### Energy Efficiency & Conservation(EEC) Roadmap

#### Ref: Current situation: Electricity consumption by sector and end-use

Electricity sales by demand group (last 10 years) and end-use

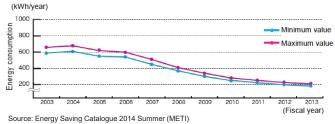


Source: JET with reference to Barbados NATIONAL ENEGY POLICY (2019-2030) and material by the Government of Barbados

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### Trends in Annual Energy Consumption of Refrigerator (401 –450ℓ, 2003 - 2013)



#### Trends in Annual Energy Consumption (2016 – 2020)



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4. Promising Energy Efficient Technologies in non-industrial sectors

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EE Improvement of Refrigerator (Commercial), Japan



### Trends of EE Improvement of various ACs, Japan

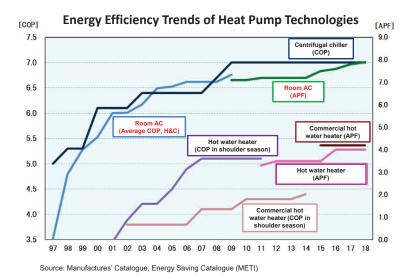
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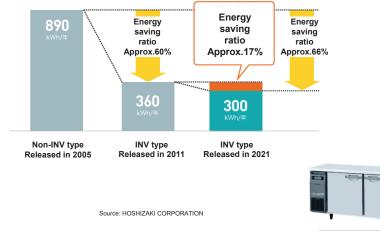
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Note 1: COP stands for Coefficient of Performance, energy efficiency at rated operation (kWh/kWh) Note 2: APF stands for Annual Performance Factor, energy efficiency throughout a year (kWh/kWh) Japan International Cooperation Agency 28

Comparison of Annual Energy Consumption of Refrigerator (Commercial)

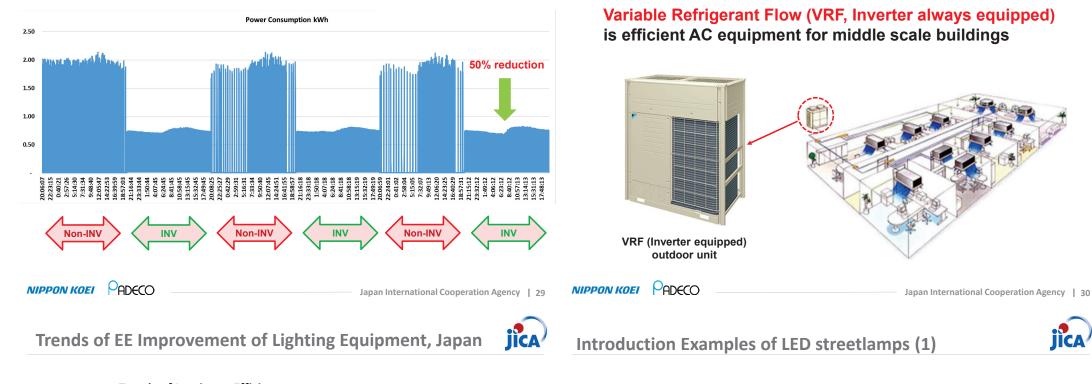


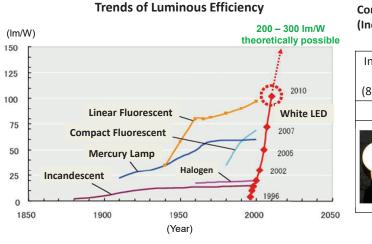
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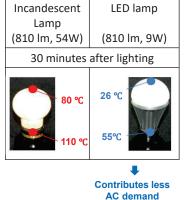
## Variable Refrigerant Flow (VRF) for middle-scale buildings





Source: Ministry of Economy and Trade and Industry, METI

Comparison of heat generation (Incandescent lamp vs LED lamp)







Road width	4.8 m
Installation interval	Approx. 35 m
Installation height	Approx. 4.5 m

Before refurbishment: Mercury lamp 80W



Horizontal	2.75 Lux	
Vertical lane (Min.)	Road center	0.41 Lux
	Both sides of the road	0.39 Lux

#### After refurbishment: LED 33W



Horizontal	Horizontal plane (average)		
Vertical	Road center	1.59 Lux	
plane (Min.)	Both sides of the road	1.49 Lux	

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### Introduction Examples of LED streetlamps (2)

5. References



### **Introduction Examples of LED on Highways**





- Building structure: RC (Basement 1F 4 floors)
- AC system: DHC (District Heating and Cooling) + AC units (partially)
- Number of workers: Approx.200 persons

• EEC approaches (STEP by STEP)

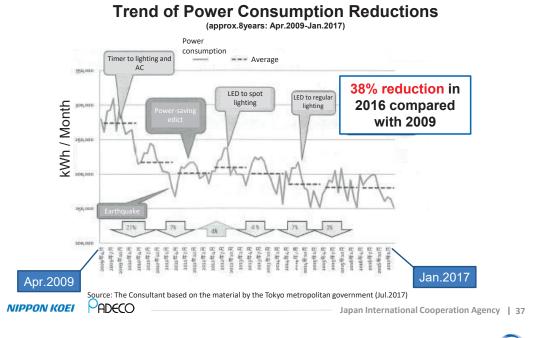
- > Introduction of auto timer to lighting and AC in 2009. (ON/OFF switch was operated manually in the past)
- > Introduction of LED to spot lighting equipment (approx. 1,000 units) in 2012
- > Introduction of LED to regular lighting equipment (approx. 2,000 units) in 2014





### **EEC Implementation Best Practice - Commercial Sector -**





### **EEC Implementation Best Practice - Commercial Sector -**

#### **Evaluation of Energy Consumption Reductions** on Primary Energy Basis

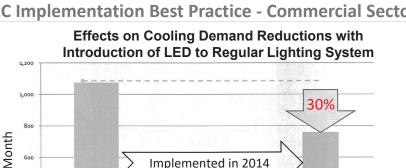
	Before		Af	ter	Primary energy
Energy	2009	2013	2015	2016	consumption reductions
Electric power consumption	275 MWh x 12 = 3,300 MWh/year			171 MWh x 12 = 2,052 MWh/year	
Primary energy consumption	3,300 x 9.97 = <b>32,901</b> GJ/year			2,052 x 9.97 = <b>20,458</b> GJ/year	32,901 – 20,458 = <b>12,443 GJ/year</b>
Cooling& heating demand		445 GJ x 12 = 5,340 GJ/year	325 GJ x 12 = 3,900 GJ/year		
Primary energy consumption		5,340 GJ x 1.36 = <b>7,262</b> GJ/year	3,900 GJ x 1.36 = <b>5,304</b> GJ/year		7,262 – 5,304 = <b>1,958 GJ/year</b>
Total	32,901 + 7,262 = 40,163 GJ/year		20,458 + 5,304 = 25,762 GJ/year		14,401 GJ/year (36%)

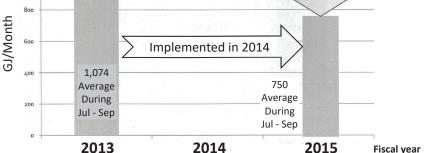
Note1: Calculation was made by JET Note2: Conversion factors for electric power and DHC were based on the guide for completing periodical report regarding EE law . (METI, Aug-2017) Note3: Changes of both heating and cooling demands by the introduction of LED are taken into account. Source: JET based on the material by the Tokyo Metropolitan government (Jul.2017)



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Source: JET based on the material by the Tokyo Metropolitan government (Jul.2017)

#### Introduction of LED realized reductions of waste heat from lighting equipment and achieved cooling demand reductions (30%) in summer.

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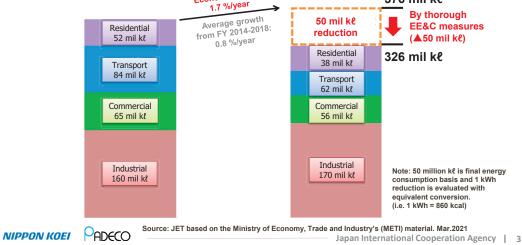
Thank you very much for your kind attention !

**Technical Cooperation to Promote Energy Efficiency in Caribbean Countries** 



## Information Sharing Material - Energy Efficiency Policy in Japan -

Jamaica, March 2023 Nippon Koei Co., Ltd. PADECO Co., Ltd. PADECO NIPPON KOEI Japan International Cooperation Agency | 1 Energy Efficiency - EE&C Targets in Energy Mix -EE&C Target for 2030 in Long-term Outlook for Energy Demand and Supply (energy mix) FY 2013 FY 2030 361 mil kℓ Economic growth 376 mil kℓ 1.7 %/year By thorough



Energy Efficiency - Energy Policy incl. EE&C in Japan -



Year	Policy
2002	Basic Act on Energy Policy
2003-2014	Released Basic Energy Policies 4 times in 2003, 2007, 2010, 2014
2015	Long-term outlook for energy demand and supply •Energy Mix in 2030 (ratio of power sources): RE: 22-24%, Nuclear: 20-22%
2018	5th Basic Energy Policy         • 2030: To achieve Energy Mix surely         • 2050: Challenge to energy conversion and decarbonization
Oct.2020	<ul> <li>Prime Minister's speech</li> <li>Greenhouse gas emissions to zero by 2050</li> <li>Establishment of a stable energy supply by thorough EE as well as introducing RE to the maximum extent.</li> </ul>

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Energy Efficiency - EE&C Targets in Energy Mix -

EE&C 2030 targets were developed sector by sector as well as technology by technology (bottom-up approach)

EE&C 2030 Targets by Sector (in Energy Mix) 24% 23% 21% Residential Transport Industrial Commercial Low carbon industrial furnace Improvement of energy performance of specified equipment (Top runner program) Energy management by utilizing BEMS/HEMS High efficiency motor High efficiency lighting High efficiency water heater Improvement of energy performance in new buildings/homes Dissemination of next-generation automobiles Energy saving (retrofit) of buildings/homes Other NIPPON KOEI PADECO



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• Various EE&C technologies / approaches could be applied across the sectors, and these exceeded 40% of the energysaving target amount.

Cross Sectorial EE&C Approaches (in Energy Mix targets)

				(%)
	Industrial	Commercial	Residential	Total
Improvement of energy performance in new buildings/homes		6.6	6.2	12.8
High efficiency lighting	2.1	4.5	4	10.6
Energy management by utilizing BEMS / HEMS		4.7	3.5	8.2
Improvement of energy performance of specified equipment (Top runner program)		5.5	2.7	8.2
Energy saving (retrofit) of buildings/homes		0.8	0.8	1.6
Total	2.1	22.1	17.2	41.4

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Energy Efficiency - Energy Efficiency & Conservation Policy in Japan -

■ Energy savings achieved in FY 2018 = ▲13.4 mil kℓ Progress rate = 26.6% # Average progress rate = 33.3% (2013-2030)

#### Progress of Energy Savings by Sector

	FY 2018 results					
Sector	Energy savings	Progress rate by EE&C measure				
Residential	▲2.9 mil kł	24.9%	Introduction of LED, etc.72%EE improvements of appliances24%EE improvements of house10%			
Commercial	▲3.3 mil kł	27.1%	<ul> <li>Introduction of LED, etc.</li> <li>Energy management by BEMS, etc.</li> <li>Introduction of efficient refrigerator -freezer and router / server, etc.</li> <li>63%</li> <li>25%</li> <li>18%</li> </ul>			
Industrial	▲2.8 mil kł	26.3%	Introduction of LED, etc.         66%           Energy management by FEMS, etc.         18%           Introduction of efficient motor         9%           Introduction of industrial heat pump         8%			
Transport	<b>▲</b> 4.4 mil kł	27.6%	Other measures in transport sector 47%     Diffusion of next generation vehicle 14%			
0	Source: JET b	ased on METI's m	naterial, Mar.2021			

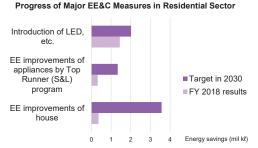
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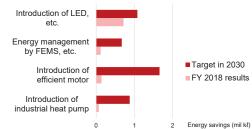
Energy Efficiency - Progress of Energy Mix -

	FY 2018 results	Targets in FY 2030	Progress
1. Energy-originated CO <sub>2</sub> emissions (total GHG emissions)	1.06 billion Ton (GHG:1.24 billion Ton)	0.93 billion Ton (GHG:1.04 billion Ton)	15 FY 2018 FY 2010 FY 2010
2. Electricity cost (fuel cost + FIT purchase cost)	8.5 Tera Yen • Fuel cost: 5.7 Tera Yen (Crude oil cost: 63\$/bbl) • FIT cost: 2.8 Tera Yen	9.2~9.5 Tera Yen • Fuel cost: 5.3 Tera Yen (Crude oil cost: 128\$/bbl) • FIT cost: 3.7~4.0 Tera Yen	15 10 5 17 2010 0
3. Energy self- sufficiency rate (whole primary energy)	12%	24%	30% FY 2010 FY 2018 FY 2018
4. Zero emission power supply ratio	<b>23%</b> • RE: 17% • Nuclear: 6%	44% • RE: 22-24% • Nuclear: 22-20%	50% FY 2010 25% FY 2018
5. EE&C (final energy consumption in crude oil equivalent)	<b>339 mil kę</b> • Commercial/industry:210 • Residential:50 • Transport:80	326 mil kę Commercial/industry:230 Residential:40 Transport:60	4 FY 2010 Economy growth 7%/or FY 2013 FY 2018 (Energy Mix formulation) Ecoc

### Energy Efficiency - Energy Efficiency & Conservation Policy in Japan -



Progress of Major EE&C Measures in Industrial Sector

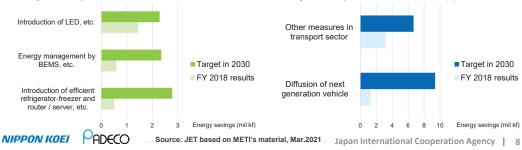


Progress of Major EE&C Measures in Transport Sector

Target in 2030

FY 2018 results

#### Progress of Major EE&C Measures in Commercial Sector





Major Issues and EE&C Regulations by Sector





#### Top runner program started in 1998 which was defined in EE law (establishment: 1979)

- > Standards for performance of appliances, etc. are set at the top runner performance in that year.
- > Other products (runner-up, etc.) are required to catch up and qualify the top runner level in designated duration.

#### Current Target Products of Top Runner Program (32 products)

Passenger Vehicles	Video Tape Recorders	Vending Machines	Printers
Freight Vehicles	Electric Refrigerators	Transformers	Heat Pump Water Heaters
Air Conditioners	Electric Freezers	Electric Rice Cookers	AC Motors
TV Sets	Space Heaters (Gas/Oil)	Microwave Ovens	Bulbs
Convind Machines	Gas Cooking Appliances	DVD Recorders	Refrigerating Showcases
Computers	Gas Water Heater	Routers	Insulation Materials
Magnetic Disk Units	Oil Water Heaters	Switches	Sashs
Lighting equipment	Electric Toilet Seats	Multi-function Printers	Double Glazing
PON KOEI PADECO	Source: JET based on METI's		rnational Cooperation Agenc



**Energy Efficiency & Conservation (EEC) Materiel Technical Cooperation to Promote Energy Efficiency in Caribbean Countries** 

## - Energy Efficiency Building Code -

Jamaica, March 2023

Nippon Koei Co., Ltd. PADECO Co., Ltd.

trial Commercial g EE remains at a standstill otion of EE&C investment Limitations of improving eq ⇒ Utilization of IoT, AI, et EE&C promotion for h	uipment efficiency	Passenger ⇒ Full-scale spread of EV / PHV / FCV	Freight More frequent and smaller ⇒ Promotion of cooperation between shipper and freight operator
tion of EE&C investment Limitations of improving eq ⇒ Utilization of IoT, AI, et EE&C promotion for h	c.,	spread of EV /	smaller ⇒ Promotion of cooperation between shipper and freight
⇒ Utilization of IoT, AI, et EE&C promotion for h	c.,		between shipper and freight
⇒ Runner Program (Energy sates and the sates are sates as a set of the sates are sates as a set of the sates are sates as a set of the sates are sates as a set of the sates are sates as a set of the sates are sates as a set of the sates are sates as a set of the sates are sates as a set of the sates are sates as a set of the sates are sates as a set of the sates are sates as a set of the sates are sates as a set of the sates are sates as a set of the sates are sates as a set of the sates are sates as a set of the sates are sates as a set of the sates are sates are sates as a set of the sates are	opriate system design, e		
Ilation on factories, etc. trengthen execution, etc.	]		gulation of shipper gulation on freight operator
EE law of buildings ⇒ Take highly effective measures for each scale / use to ensure compliance with EE standards			xamination on EE&C ts of supply chain,
t	rengthen execution, etc. EE law of bu ⇒ Take highly effective me / use to ensure compliance	rengthen execution, etc. <b>EE law of buildings</b> ⇒ Take highly effective measures for each scale	rengthen execution, etc.       Re         EE law of buildings       ⇒ E         ⇒ Take highly effective measures for each scale       effor         / use to ensure compliance with EE standards       effor

Thank you very much for your kind attention !

## Contents



- 1. Outline of EE Regulations in Residential Building
- Examples of Simplified Calculation in Residential Building (Region-6)
- 3. Examples of Simplified Calculation in Residential Building (Region-8)
- 4. EEC Unique Approaches in Residential Building, Okinawa

## 1. Outline of EE Regulations in Residential Building

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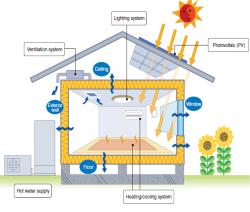
## **1.** Outline of EE Regulations in Residential Building



Overview of the Energy Efficiency Standards for Residential Buildings

The evaluation of energy efficiency (EE) performance for residential buildings uses the following two standards:

- $\succ$  Standards to evaluate envelope performance (e.g. windows, exterior walls of residential buildings
- > Standards to evaluate the primary energy consumption amount of equipment and appliances etc.



## 1. Outline of EE Regulations in Residential Building

• Envelope performance

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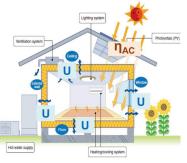
 $\succ$  Average outer shell heat transmission coefficient (U<sub>A</sub>)

U<sub>A</sub> = (W/m<sup>2</sup>·K) Mount of total heat loss per unit of temperature difference Total surface area of exterior

≻ U<sub>A</sub>

## An indicator of the ease of heat transfer between indoor and outdoor air.

- ✓ When the temperature difference between the inside and outside of the building is 1 °C, the amount of heat released per unit time from the inside of the building to the outside of building is divided by the total surface area of exterior.
- ✓ The smaller the value, the more difficult it is for heat to enter and exit, and the higher the insulation performance.



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Padeco

## **1.** Outline of EE Regulations in Residential Building



#### • Envelope performance

 $\succ\,$  Average solar heat gain coefficient during cooling period ( $\eta_{AC})$ 

η<sub>AC =</sub> <u>Amount of total solar heat gain per unit of solar radiation intensity</u> X 100 (-) <u>Total surface area of exterior</u> X 100

≻ n<sub>AC</sub>

#### ✓ An indicator of how easily solar radiation enters the room.

- ✓ Amount of heat acquired inside the building from solar radiation per unit of solar radiation intensity averaged by the cooling season and divided by the total surface area of exterior.
- ✓ The smaller the value, the less sunlight enters and the higher the shielding performance.

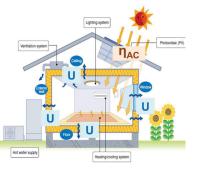


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- 1. Outline of EE Regulations in Residential Building
- Primary energy consumption amount
  - + heating/cooling system primary energy consumption amount
  - + ventilation system primary energy consumption amount
  - + lighting system primary energy consumption amount
  - + hot water supply primary energy consumption amount
  - + other (household appliances) primary energy consumption amount
  - reduction amount of primary energy consumption through PV, etc
  - = primary energy consumption amount

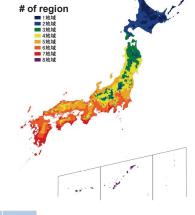
#### Evaluation of primary energy consumption amount

Design value (excludes home appliances etc.)≤1.0Standard value (excludes home appliances etc.)



1. Outline of EE Regulations in Residential Building

- □ Envelope performance
   □ U<sub>A</sub> Design Value ≤ Standard Value
  - $\eta_{AC}$  Design Value  $\leq$  Standard Value
- ✓ Standard values of U<sub>A</sub> and η<sub>AC</sub> are defined by region by region. (regions are classified in 8 regions in Japan)



Region	1&2	3	4	5	6	7	8	
Standard Value of U <sub>A</sub>	0.46	0.56						
Standard Value of $\eta_{AC}$	-	-	-	3.0	2.8	2.7	6.7	Revised in Apr.2020 as previous value was too strict (3.2)
							_	

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## 1. Outline of EE Regulations in Residential Building

#### Promulgated on June 17, 2022 (Ministry of Land, Infrastructure, Transport and Tourism Housing Bureau

- > Mandate that all new residential and nonresidential buildings comply with EEC standards
- Conducted as part of the building permit process, integrated with the structural safety regulation conformity assessment.
- Enforcement will be made by FY2025, while ensuring a sufficient preparation period in consideration of small and medium-sized construction firms and the development of the screening system.

	current				revis	sion
	Non-residential	Residential			Non-residential	Residential
large-scale 2,000m <sup>2</sup> or more	Compliance obligation	Notification obligation	-	large-scale 2,000m <sup>2</sup> or more	Compliance obligation	Compliance obligation
mid-scale	Compliance obligation	Notification obligation		mid-scale	Compliance obligation	Compliance obligation
Less than 300m <sup>2</sup> small scale	Explanation obligation	Explanation obligation		Less than 300m <sup>2</sup> small scale	Compliance obligation	Compliance obligation



## 2. Examples of Simplified Calculation in Residential Building (6 Region)

Simplified Calculation						
Envelope performance						
Region	Legend of sheet number					
6 Region	6 - 1 - 1 1: Floor-insulated dwelling (Bathroom floor insulation)					
wooden	Category       2: Floor-insulated dwelling         1: Wooden       (Bathroom foundation insulation)         2: Reinforced Steel, Steel, etc.       3: Floor-insulated dwelling         4: Foundation-insulated dwelling					

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### 2. Examples of Simplified Calculation in Residential Building (6 Region)

## IICA

#### Average heat transmission coefficient $U_A$

Please fill in the values in the bold frame below. In the case where a single part has several different specifications, the heat transfer coefficient shall be that of the specification with the largest heat transfer coefficient. If the area of a window is less than or equal to the total floor area of the unit dwelling multiplied by 0.02, the window specification concerned may be excluded.

				_	Heat transmission co	efficient U	Result	
Roof or ceili	ing		0.194	×	0.258	=	0.051	(1)
o	general section	n	0.489	×	0.430	=	0.211	(2)
Outer wall	Foundation w	all (Entrance)	0.004	×	4.11	=	0.017	(3)
Floor	Bathroom		0.009	×	3.34	=	0.031	(4)
Other Floors			0.121	×	0.492	=	0.060	(5)
Window	1		0.107	×	2.91	=	0.312	(6)
Door			0.014	×	3.49	=	0.049	(7)
			1				↑ Rounded up to the fou	urth decimal place
				Linea	ar thermal transmi	ittance $\psi$	Result	_
Periphery o	f dirt floor, <u>etc.</u>	Entrance etc.	0.021	×	0.99	=	0.021	(8)
							↑Rounded up to the f	ourth decimal place

Average heat transmission coefficient of envelope:  $U_A[W/(m^2 \cdot K)]$ Sum of (1) - (8) =0.76

\*Rounded up to the third decimal place (Conforming if the standard value is 0.87 [W/(m<sup>2</sup>·K)] or less)

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2. Examples of Simplified Calculation in Residential Building (6 Region)

#### Average solar heat gain during cooling season $\eta_{AC}$

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If a site has several different specifications, the thermal transmittance of the specification with the largest thermal transmittance should be used If a window has several different specifications, the vertical solar heat gain shall be the vertical solar heat gain of the specification with the largest vertical solar heat gain. If the area of a window is less than or equal to the total floor area of the unit dwelling multiplied by 0.04, the window specification concerned may be excluded.

				Heat transmission co	efficient U	Result	
Roof or ceiling		0.659	×	0.258	=	0.171	(9)
Outer wall	General section	0.762	×	0.430	=	0.328	(10)
	Foundation Wall (Entrance)	0.004	×	4.11	=	0.017	(11)
Door		0.020	×	3.49	=	0.070	(12)
				<u>.</u>		↑Rounded up to the f	ourth decimal place
			Coeffi	cient of Vertical Su	rface Solar		
				Heat Gain Coeffi	cient $\eta_d$	Results	
Window		4.356	×	0.32		1.394	(13)
						↑Rounded up to the f	ourth decimal place
Average	solar beat gain during cooli	ing season a	n [_]	Sum of (9	)_(12) =	2.0	
Average	Average solar heat gain during cooling season $\eta_{AC}$ [-] Sum of (9)-(13) =						
						*Rounds up to the sec	ond decimal place

(Conforming if the standard value is 2.8 [-] or less)

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Please fill in the values in the hold frame below

### 2. Examples of Simplified Calculation in Residential Building (6 Region)



**İİCA** 

#### Average solar heat gain during the heating season $\eta_{AH}$

Please enter the values in the bold boxes below.

If a site has <u>several</u> different specifications, the thermal transmittance of the specification with the largest thermal transmittance should be used. If a window has <u>several</u> different specifications, the vertical surface solar heat gain shall be that of the specification with the lowest vertical surface solar heat gain. If the area of the window is less than or equal to the total floor area of the unit dwelling multiplied by 0.04, the window specification concerned may be excluded.

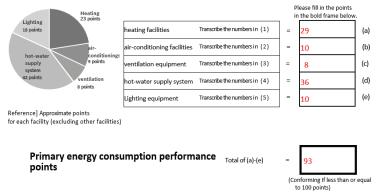
			H	leat transmission coeffi	cient U	Result	_
Roof or ceiling		0.658	×	0.258	=	0.169	(14)
Outer wall	general section	0.882	×	0.430	=	0.379	(15)
Outer wall	Foundation Wall (Entrance)	0.002	×	4.11	=	0.008	(16)
door (Western-	<u>style)</u>	0.014	×	3.49	=	0.048	(17)
						↑Rounded down to the place	fourth decimal
				cient of Vertical Surf eat Gain Coefficient		Results	
					- 1/0		_
window		4.786	×	0.32	=	1,531	(18)
						↑Rounded down to the place	fourth decimal
Average sola	ar heat gain during the heat	ing season 1	η <sub>ан</sub> [-]	Sum of (14)		2.1 Rounded down to the set place (Reference value:	
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### 2. Examples of Simplified Calculation in Residential Building (6 Region)

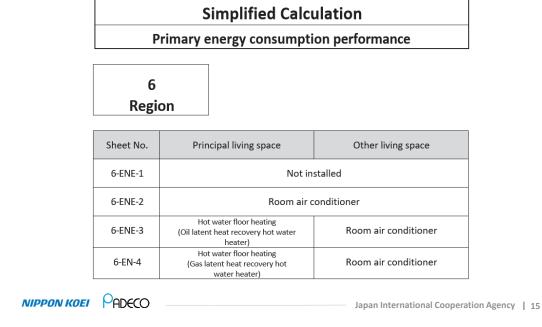
Please fill in the envelope performance.

Please fill in the figures in th	ne bold frame below.
Average heat transmission coefficient $U_A$ [W/( $\mathfrak{m}^{\dagger} \cdot K$ )]	0.76
Average solar heat gain during cooling season $\eta_{AC}$ [-]	2.0
Average solar heat gain during the heating season $\eta_{\!A\!H}$ [-]	2.1

### From the Point Listing page, post the points you selected in (1) through (5) in the bolded box below and calculate the total.









#### (1) Envelope performance and heating system

\*Confirm the average heat transmission coefficient and the average solar heat gain during the heating season for the house in question, and check the points of the heating equipment with 🗹 the relevant envelope performance value. (However, only if the average solar heat gain during the heating season is 1.8 or higher.

	Average heat tra coefficient U <sub>A</sub> [W			age solar h on <sub>ЛАн</sub> [-]	point	
≤	Greater than 0.69	0.78 or less	*	1.8 or higher	Less than 2.3	29
				2.3 or higher	Less than 2.8	28
				2.8 or higher	Less than 3.3	26
				3.3 or higher	Less than 3.8	25
				3.8 or higher	Less than 4.3	24
				4.3 or higher		21



#### (2) Envelope performance and cooling system

\*Confirm the average heat transfer coefficient of the external envelope of the house in question and the average solar heat gain during the cooling season, and check the points of the cooling system with ☑ the relevant external envelope performance value. (However, only if the average solar heat gain during the cooling season is 4.3 or less.

	Average heat transmission coefficient $U_A$ [W/( $n^2 \cdot K$ )]Average solar heat gain during the cooling season $\eta_{AC}$ [-]			point		
<b></b>	0.69 or more	Less than 0.78			1.8 or less	9
			٠	1.8 Larger	2.3 or less	10
				2.3 Larger	2.8 or less	11
				2.8 Larger	3.3 or less	13
				3.3 Larger	3.8 or less	14
				3.8 Larger	4.3 or less	16

#### (3) Ventilation equipment

\*Please check the points by ticking the appropriate ones.

	type	point
🗆 Di	icted Type 1 Ventilation System	13
🗆 Di	cted Type 2 ventilation equipment or ducted Type 3 ventilation equipment	10
🗆 W	all-mounted Type 1 ventilation equipment	10
	all-mounted Type 2 ventilation equipment or Wall-mounted Type 3 ventilation uipment	8

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### 2. Examples of Simplified Calculation in Residential Building (6 Region)

#### (5) Lighting equipment

\*Check the points for all fixtures in the main living room and all other living rooms by 🗹 in the appropriate combination. However, lighting fixtures in non-occupied rooms must be non-incandescent.

Lightir	ng fixtures in principal living rooms*. <sup>2</sup>	Light	ing fixtures in other living rooms *.2	point
	Not installed		Not installed	9
			LED	9
			Other than incandescent lamps	10
			Incandescent lamp	13
<b>*</b>	LED		Not installed	9
			LED	9
		1	Other than Incandescent lamps	10
			Incandescent lamp	13
	Other than incandescent lamps		Not installed	11
			LED	11
			Other than incandescent lamps	11
			Incandescent lamp	14
	Incandescent lamp		Not installed	15
			LED	15
			Other than incandescent lamps	16
			Incandescent lamp	18

2: "LED": LEDs are used in all devices.

"Non-incandescent": All equipment uses non-incandescent lamps. "Incandescent": Incandescent lamps are used in any of the devices.

#### (4) Hot-water supply system

\*Please check the points by ticking the appropriate ones.

type	Hot water-saving faucet <sup>*</sup> . <sup>1</sup>	point
Not installed	-	43
Conventional gas water heater	🗆 No	47
	Yes	44
Gas latent heat recovery water heater	□ No	40
	Yes	38
Conventional oil water heaters	🗆 No	42
	Yes	39
Oil latent heat recovery water heater	🗆 No	40
	Yes	38
Electric heat pump water heater (CO <sub>2</sub> refrigerant)	🗹 No	36
	□ Yes	34

\*1: "Yes" can be selected for hot water-saving faucets when faucets with the following functions are installed in all "kitchen", "bathroom shower", and "washbasin" areas.

Kitchen": water shut-off function or priority water dispensing function

Bathroom shower: Hand-held shut-off function or low-flow discharge function

Washbasin": Priority water dispensing function

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## 2. Examples of Simplified Calculation in Residential Building (6 Region



#### Primary energy consumption calculation results (residential version)

#### 1. Design primary energy consumption etc.

(1) Name of housing type	0000 residence ( d	etached house)			
(2) Floor area.	Principal Other living space living space		Non- living space	Total	
	29.81 m2	51.34 m2	38.93 m2	120.08 m2	
(3) Regional classification	6 Re	gion	******	*****	
(4) Primary energy consumption (per dwelling)			Design primary [MJ].	Standard Primary [MJ].	
	heating facilities		17236	15382	
	air-conditioning facili	ties	5390	5611	
	ventilation equipmen	t	4583	4542	
	hot-water supply sys	tem	20940	25091	
	lighting equipment		5964	10763	
	Other equipment.		21241	21241	
	On-site consumption generated by power s *1				
	Deductions related to electricity sold from co *2				
	total amount		75353	82629	
(5) BEI	Primary energy consur others) [GJ/(unit/yea		54.2	61.4	
	BEI		0.8	9	

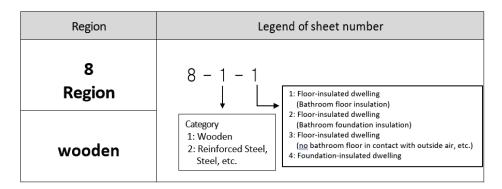
electricity sold by the cogeneration facility.

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## **Simplified Calculation**

### **Envelope performance**



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Please fill in the values in the bold frame below

### 3. Examples of Simplified Calculation in Residential Building (8 Region)

3. Examples of Simplified Calculation in

**Residential Building (8 Region)** 



3. Examples of Simplified Calculation in Residential Building (8 Region)

#### Average solar heat gain during cooling season nac

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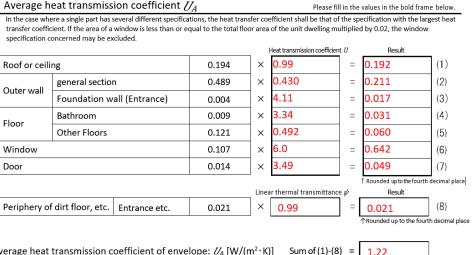
#### Please fill in the values in the bold frame below.

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If a site has several different specifications, the thermal transmittance of the specification with the largest thermal transmittance should be used. If a window has several different specifications, the vertical solar heat gain shall be the vertical solar heat gain of the specification with the largest vertical solar heat gain. If the area of a window is less than or equal to the total floor area of the unit dwelling multiplied by 0.04, the window specification concerned may be excluded.

				leat transmission coefficien	tU	Result	_
Roof or ceiling	g	0.959	×	0.99	=	0.949	(9)
Outer wall	General section	0.762	×	0.430	=	0.330	(10)
	Foundation Wall (Entrance)	0.004	×	4.11	=	0.016	(11)
Door	·	0.019	×	3.49	=	0.066	(12)
			Coeffi	cient of Vertical Surface S Heat Gain Coefficient A		↑Rounded up to the fo Results	
			Coeffi			Deculte	
Window		4.55	×	0.63		2.867 ↑Rounded up to the fo	(13)
Averag	e solar heat gain during cool	ing season $\eta$	7AC [-]	Sum of (9)-(13	s) =	4.2 *Rounds up to the seco (Conforming if the stan [-] or less)	and decimal place

Note : For window, adopted coefficient of vertical surface solar heat gain of single-layer glass



Average heat transmission coefficient of envelope:  $U_A$  [W/(m<sup>2</sup>·K)] Sum of (1)-(8)

Note 1: U, of roof /ceiling was adopted the standard value in region 8 while other values are set at same value as region 6 (there is no standard values for them)

Note 2: For window, adopted coefficient of vertical surface solar heat gain of single-layer glass

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Primary energy consumption performance

Not installed

Room air conditioner

Other living space

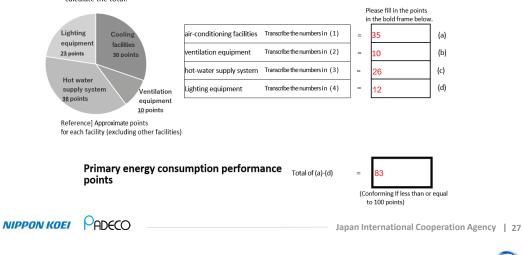
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Please fill in the envelope performance.

Please fi	ill in the figures in the bold frame below.
Average heat transmission coefficient $U_{\mathbb{A}}[W/(n^2 \cdot K)]$	1.22
Average solar heat gain during cooling season $\eta_{AC}$ [-]	4.2

From the Point Listing page, post the points you selected in (1) through (4) in the bolded box below and calculate the total.



3. Examples of Simplified Calculation in Residential Building (8 Region)

Principal living space

#### (1) Envelope performance and cooling system

8

Region

Sheet No.

8-ENE-1

8-ENE-2

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\*Confirm the average heat transfer coefficient of the external envelope of the house in question and the average solar heat gain during the cooling season, and check the points of the cooling system with 🗹 the relevant external envelope performance value. (However, only if the average solar heat gain during the cooling season is 8.7 or less.

Average heat transmission coefficient $U_A$ [W/( $\mathbf{m}^2 \cdot \mathbf{K}$ )]		age solar heat gain d on <sub>MAC</sub> [-]	luring the cooling	point
 1.05 or more Less than 1.50			1.7 or less	19
		1.7 Larger	2.7 or less	25
		2.7 Larger	3.7 or less	30
		3.7 Larger	4.7 or less	35
	0	4.7 Larger	5.7 or less	40
		5.7 Larger	6.7 or less	45
		6.7 Larger	7.7 or less	50
		7.7 Larger	8.7 or less	55
1.50 or more Less than 1.95			1.7 or less	17
		1.7 Larger	2.7 or less	22
		2.7 Larger	3.7 or less	26
		3.7 Larger	4.7 or less	30
		4.7 Larger	5.7 or less	35
		5.7 Larger	6.7 or less	40
		6.7 Larger	7.7 or less	45
		7.7 Larger	8.7 or less	49

3. Examples of Simplified Calculation in Residential Building (8 Region)

#### (2) Ventilation equipment

\*Please check the points by ticking the appropriate ones.

	type	point
	Ducted Type 1 Ventilation System	16
	Ducted Type 2 ventilation equipment or ducted Type 3 ventilation equipment	13
	Wall-mounted Type 1 ventilation equipment	13
<b>1</b>	Wall-mounted Type 2 ventilation equipment or Wall-mounted Type 3 ventilation	10
	equipment	

#### (3) Hot-water supply system

\*Please check the points by ticking the appropriate ones.

type	Hot water-saving faucet*.1	point
Not installed	-	38
Conventional gas water heater	🗆 No	42
	🗆 Yes	39
Gas latent heat recovery water heater	🗆 No	36
	Yes	33
Conventional oil water heaters	🗆 No	38
	Yes	35
Oil latent heat recovery water heater	🗆 No	36
	🗆 Yes	33
Electric heat pump water heater (CO <sub>2</sub> refrigerant)	🗹 No	26
	Yes	25

#### (4) Lighting equipment

\*Check the points for all fixtures in the main living room and all other living rooms by 🗹 in the appropriate combination. However, lighting fixtures in non-occupied rooms must be non-incandescent.

ty		
Lighting fixtures in principal living rooms*. <sup>2</sup>	Lighting fixtures in other living rooms *.2	point
<ul> <li>Not installed</li> </ul>	<ul> <li>Not installed</li> </ul>	11
	🗆 LED	11
	<ul> <li>Other than incandescent lamps</li> </ul>	12
	<ul> <li>Incandescent lamp</li> </ul>	16
🛃 LED	Not installed	11
	🗆 LED	11
	🖌 Other than Incandescent lamps	12
	<ul> <li>Incandescent lamp</li> </ul>	16
<ul> <li>Other than incandescent lamps</li> </ul>	Not installed	13
	🗆 LED	13
	<ul> <li>Other than incandescent lamps</li> </ul>	14
	<ul> <li>Incandescent lamp</li> </ul>	17
<ul> <li>Incandescent lamp</li> </ul>	<ul> <li>Not installed</li> </ul>	19
	🗆 LED	19
	<ul> <li>Other than incandescent lamps</li> </ul>	20
	<ul> <li>Incandescent lamp</li> </ul>	23

2: "LED": LEDs are used in all devices.

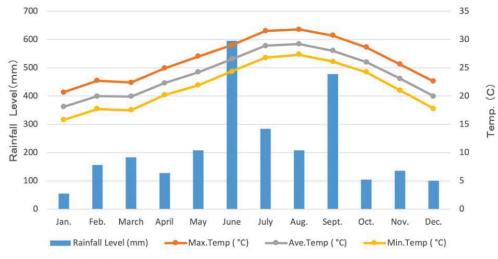
"Non-incandescent": All equipment uses non-incandescent lamps.

"Incandescent": Incandescent lamps are used in any of the devices

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#### [Ref] Rainfall level & average temperature in Okinawa, 8 Region, 2019



Data source: Japan Meteorological Agency

#### 1. Design primary energy consumption etc.

(1) Name of housing type	OOOO residence ( detached house)					
(2) Floor area.	Principal Other living space living space		Non- living space	Total		
	29.81 m2	51.34 m2	38.93 m2	120.08 m2		
(3) Regional classification	8 Res	aion	******			
(4) Primary energy consumption (per dwelling)			Design primary [MJ].	Standard Primary [MJ].		
	heating facilities		0	(		
	air-conditioning facilit	ies	15483	21289		
	ventilation equipment		4583	454		
	hot-water supply syst	em	12338	1792		
	lighting equipment		5964	1076		
	Other equipment.		21241	21243		
	total amount		59609	7575		
(5) BEI	Primary energy consum others) [GJ/(unit/yea		38.4	54.		
	BEI		0.71			

\*1: Power generation facilities include cogeneration facilities and photovoltaic facilities. \*2: This is the amount of primary energy consumption required to generate the electricity sold by the cogeneration facility.

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## 4. EEC Unique Approaches in Residential Building, Okinawa, Japan



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Use	Energy consumption	Efficient technology		Energy consumption rate (standard value is set at 1.0) more efficient				
standard value (C				Level 1	Level 2	Level 3	Level 4	
		Use and c	ontrol of natural wind	0.96	0.91	0.88		
Cooling	10.3 <mark>(15%)</mark>	Solar radia	ation shielding method	0.9	0.8	0.75	0.7	
		Cooling sy	vstem plan (efficient AC, etc.)	0.9	0.8	0.75	0.65	
Ventilation	3.1 (5%)	Ventilation	ducted	0.7	0.5			
ventilation	2.8	equipment	wall-mounted	0.8				
Hot water	13.8 <mark>(21%)</mark>	Solar hot v	water supply	0.9	0.7	0.5	0.3	
supply		Hot water	supply system	0.9	0.8	-	0.6	
	13.6 (20%)	Daylight u	se	0.97~0.98	0.95	0.9		
Lighting		Lighting E	quipment planning	0.85	0.8	0.7		
Appliances	21.4 <mark>(32%)</mark>	Introductio	on of high-efficiency appliances	0.8	0.6			
Other (Cooking)	4.4 (7%)							
Total amount	66.6							
Total amount	66.3							
KOEI PADE		Source: Er	nergy efficient house guidelines (		efecture, 2 Internat		operatio	

Energy Reduction Effects by Applying Efficient Technologies in Okinawa

## 4. EEC Unique Approaches in Residential Building, Okinawa jica

#### Adopted EE Methods and Estimation of Energy Saving Effects - Example of the Model House - (2)

Use	Standard value (GJ)	A	в	с	Design value (GJ)	Energy saving rate (%)	Note
Cooling	10.3	0.88	0.7	0.75	4.76	53.7	4.76 = 10.3 X 0.88 X 0.7 X 0.75
Hot water supply	13.8	0.6			8.28	40.0	8.28 = 13.8 X 0.6
Ventilation	3.1	0.8			2.48	20.0	2.48 = 3.1 x 0.8
Lighting	13.6	0.95	0.7		9.04	33.5	9.04 = 13.6 x 0.95 x 0.7
Appliances	21.4	0.6			12.84	40.0	12.84 = 21.4 x 0.6
Other	4.4				4.4	0	
Total	66.6				41.8	37.2	

Energy saving rate



#### Adopted EE Methods and Estimation of Energy Saving Effects - Example of the Model House - (1)

Use	Efficient technologies	Evaluation level	Energy consumption rate	Adopted EE methods
Cooling	Use of natural wind	3	0.88	<ul> <li>Openings on ventilation paths</li> <li>Openings with consideration of the prevailing wind direction</li> <li>Use of high windows</li> </ul>
Cooling	Solar radiation shielding method	4	0.7	<ul><li>Thermal barrier paint</li><li>Thermal barrier block</li></ul>
	Cooling system planning	3	0.75	<ul> <li>High-efficiency air conditioner (COP 4 or higher) + fan</li> </ul>
Hot water supply	Hot water supply system planning	4	0.6	CO2 heat pump water heater
Ventilation	Ventilation system planning	1	0.8	Simplified ventilation system
	Daylight use	2	0.95	LD and individual rooms
Lighting	Lighting Equipment Planning	3	0.7	<ul> <li>High efficiency, control, and design ingenuity</li> </ul>
Appliances		2	0.6	<ul> <li>Efficient products + reduced standby power</li> </ul>

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4. EEC Unique Approaches in Residential Building, Okinawa jic

#### Key Points 1: Sunshine Shield

#### Methods to shield sunshine

- ✓ It is basic to keep the building skeleton close to the ambient temperature, not to heat it.
- ✓ The strong sunshine of Okinawa should be blocked outside.





Sunshine Shield in Urban Area



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### Key Points 1: Sunshine Shield

Green roof



Solar Heat Shielding Paint



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4. EEC Unique Approaches in Residential Building, Okinawa jica

Key Points 1: Sunshine Shield

> HANA Block





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Key Points 1: Sunshine Shield

Solar Heat Shielding Block





Key Points 1: Sunshine Shield

Wall-surface Greening



**Key Points 1: Sunshine Shield** 

#### > AMAHAJI





AMAHAJI is Okinawa's traditional eaves where customers are welcomed as there is not entrance in Okinawa's unique houses.

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4. EEC Unique Approaches in Residential Building, Okinawa jica

**Key Points 1: Sunshine Shield** 

> Louver



4. EEC Unique Approaches in Residential Building, Okinawa jica

#### **Key Points 1: Sunshine Shield**

#### > Eaves





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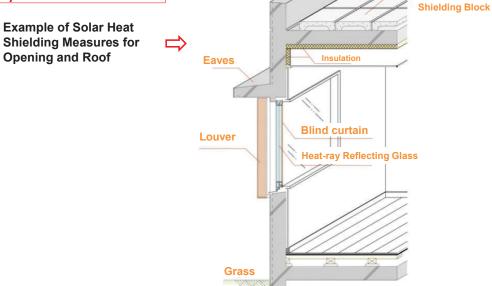
Solar Heat

4. EEC Unique Approaches in Residential Building, Okinawa jica

#### **Key Points 1: Sunshine Shield**

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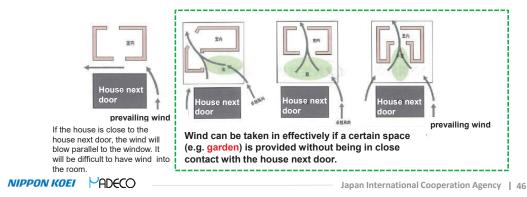




Key Points 2: Create Cool Breeze, Bring Cool Breeze

Methods to Create Cool Breeze, Bring Cool Breeze

- ✓ It is basic to bring cool breeze in rooms
- ✓ Ingenuity in building layout and window positions
  - In summer, cool breezes are drawn into the building from the south.
     In winter, the wind from the north should be blocked.



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Key Points 2: Create Cool Breeze, Bring Cool Breeze

Security-friendly small window



4. EEC Unique Approaches in Residential Building, Okinawa jica

Key Points 2: Create Cool Breeze, Bring Cool Breeze

Windows at high position



Windows at high position (from outside)



Windows at high position (from inside)

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4. EEC Unique Approaches in Residential Building, Okinawa jica

Key Points 3: Make good use of daylight

Methods to Make good use of daylight

- ✓ It is basic to allow light to enter a room while blocking direct sunshine.
- ✓ Utilization of inner court, high sidelight (windows on high position) and louver, etc.

### High Sidelight



High Sidelight

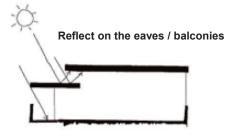
High Sidelight (sunshine enters indirectly)





Key Points 3: Make good use of daylight

> Introduction of light shelf concept



- If the eaves on the south side of the . building are made two-tiered, the eaves blocks direct sunshine from entering the window.
- The light reflected on the upper part of the eaves is diffusely reflected on the ceiling of the room and light up the back of the room.

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4. EEC Unique Approaches in Residential Building, Okinawa jica

Key Points 3: Make good use of daylight

#### > HANA Block



Lighting with utilization of HANA block

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Thank you very much for your kind attention !