NO. OF STAFF AT CONTROL STATION IFUTURE FEEDER		3 2	5 3	4 8 2	4 8 2	7 4 5	7 6 3	3 5	4 5 2	2	7 7	1 2 2		0 23 13 58 21 3
NO, OF C EXISTING UNDE	CTRONIC 1 2 3 4 1 2 3 4 1	2			1	1		1	p-d		1	-		2 5 1 0 0 2 1 0 0 0 1 0
NO I	(kV) C B HYDRAULIC ELE	22	22 V 6	22 V 9	22 V16	22 V 7	22 M 7	22 V S	22 M 4 I	22 2	22 B 4	22 M 4		E 95
SUBSTATION TRANSFORMER VOLTAGE CAPACITY		1. AO PHAI 1 x 40	BANG BUNG 1 x 25	BANG LAMU G 2 x 25	4. CHON BURI 1 x 40 2 x 25	CHACHOENGSAO 2 x 25	CHANTHABURI 2 x 25	KLAENG 1 x 25	RAYONG 1 2×25	9. RAYONG 2 1 x 25	RAYONG 3 2 x 40	11. SRIRACHA 2 x 12.5		TOTAL 11 19 510

TO A W TO GATE	POWER TRANSFORMER VOLTAGE	VOLTAGE	Z	NO. OF SWITCHGEAR	HGEAR	EXI	NO. EXISTING		OF CONTROL UNDER CONST	ROL	ROOM .	TURE	PLAN	OF CONTROL ROOM NO. OF STAFF AT UNDER CONST.! FUTURE PLAN CONTROL STATION		NO. OF	NO. OF RECLOSER ON DISTRIBUTION	ECLOSER IBUTION
25	CAPACITY		1	RECLOSER	SER	F	TYPE	1	TYPE	ш	L	TYPE		miemod ac	-	FEEDER	17	LINE
	(MVA)	(kV)	ا د	HYDRAULIC	LIC ELECTRONIC	1 2	2 3	4 1	2	3 4		2 3	4	PRESENT		4	HYDRAULIC	HYDRAULIC ELECTRONIC
	2 x 25	22	- Z	-										7		7	6	
			•				1	+		7	1	+	_			•	,	
BAN PONG 2	2 x 25	22	8 2			1								4		6		1
KANCHANA BURI	1 x 25	22	Λ 7			-									n	_	9	
KAMPHAENG SAE	1 x 25	22			2										8	5	2	
NAKHON CHAISI	1 × 40 2 × 25	22	B 7		-		,							7		٥	m	
SAM PHRAN 1	2 x 40	22	8 2		-	<i>7</i> =4		-				<u> </u>		7		œ	1	
7. SAMUT SAKHON 1	2 x 25	22	M 1 8 9			-	-							4		10		
SAMUT SAKHON 2	1 x 25	22			3							1			3	9	2	
SUPHAN BURI	2 x 25	22	7 A	I		1								4		5	7	
10. THAMUANG	1 x 25	22	7 g			1								8		7		
																	-	
10	17 470		55	p-4	Ŋ		0	<u>-</u>	0	0	0	2 0		27	σ.	67	18	÷

ANNEX 3-9-10

SUBSTATION DATA (SI)

LINE HYDRAULIC ELECTRONIC NO. OF RECLOSER ON DISTRIBUTION 0 56 4 7 ~ 4 ~ m ~ NO. OF FEEDER сч 4 34 'n 4 4 ന 4 ڼ ന ന 13 m 4 ന ጣ m m) 0 ~ --0 0 0 0 6 0 0 0 ø. RECLOSER HYDRAULIC ELECTRONIC ä ď OF SWITCHGEAR **-**4 о В ص بخ 7 H 33 > **7** <u>س</u> بن χĊ X øÞ ø Z X ပ POWER
TRANSFORMER VOLTAGE
CAPACITY
(MVA) (KV) 22 22 22 22 22 22 22 22 22 250 2×12.5 2×12.5 2×25 1 x 25 1×25 1×25 1×25 1×25 1 x 25 걸 4. PRACHOAPKHIRI KHAN ó 9. SAMUT SONGKHRAM 8. RATCHABURI 2 7. RATCHABURI 1 3. PHETCHABURI SUBSTATION 2. CHUM PHON PRAN BURI RANONG CHA AM TOTAL , ,--! 12 14. 13. 10. ٠,

SUBSTATION DATA (S2)

ANNEX 3-9-11

TRANSPORMER LVOI TACE	CN	OF SWITCHGEAR	GEAR	177	NO.	١,٢	OF CONTROL ROOM	OL R	8	a dail		OF CONTROL ROOM NO. OF STAFF AT INDEP CONST WINTED CONTROL STATION		ao ox	NO. OF RECLOSER	ECLOSER
٠,		RECLOS	ER	T F	YPE		TYPE		1	TYPE	9	FUT FUT	т.	FEEDER	II II	LINE
د	E.	HYDRAULIC ELECTRONIC	LECTRONIC	1 12	2 3	4	2 3	4		2 3	4	FKESENI PL	1	1	YDRAULIC	HYDRAULIC (ELECTRONIC
æ	T									18	15			1		
82	2													2	1	
В 2													3	1	2	
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B. 6				1						·		7.		9	. 3	2
-			2											2	,	d.
M 2 B 6				-								4		7		- 4
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B 5				**************************************		1							4	4	. 7	
B 2														2	1	
В 3				-4:								3		e.	2	2
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31		2	7	3	•	7	0	-	0	2 0	0	11	13	35	16	vo

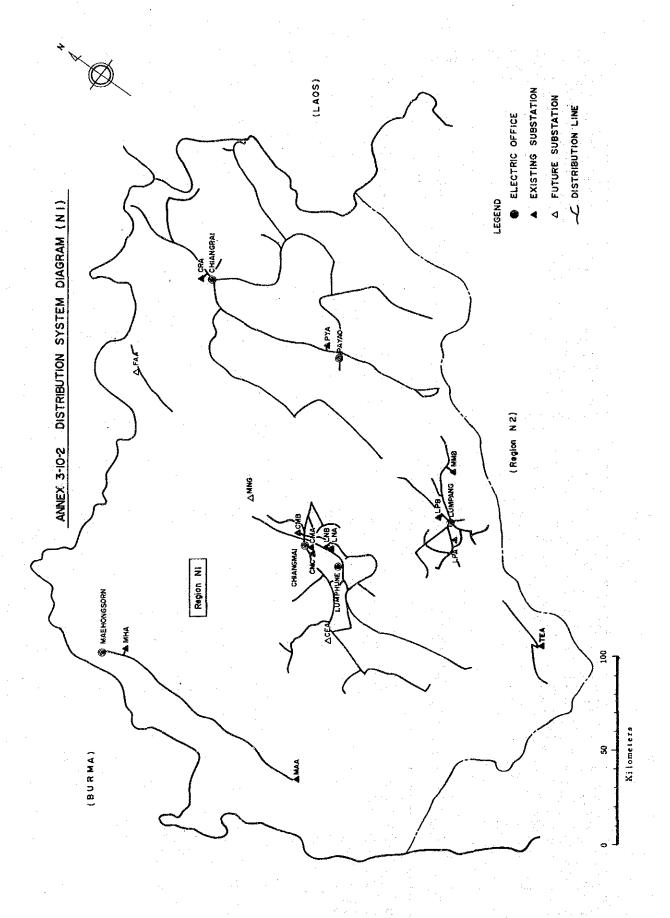
ANNEX 3-9-12

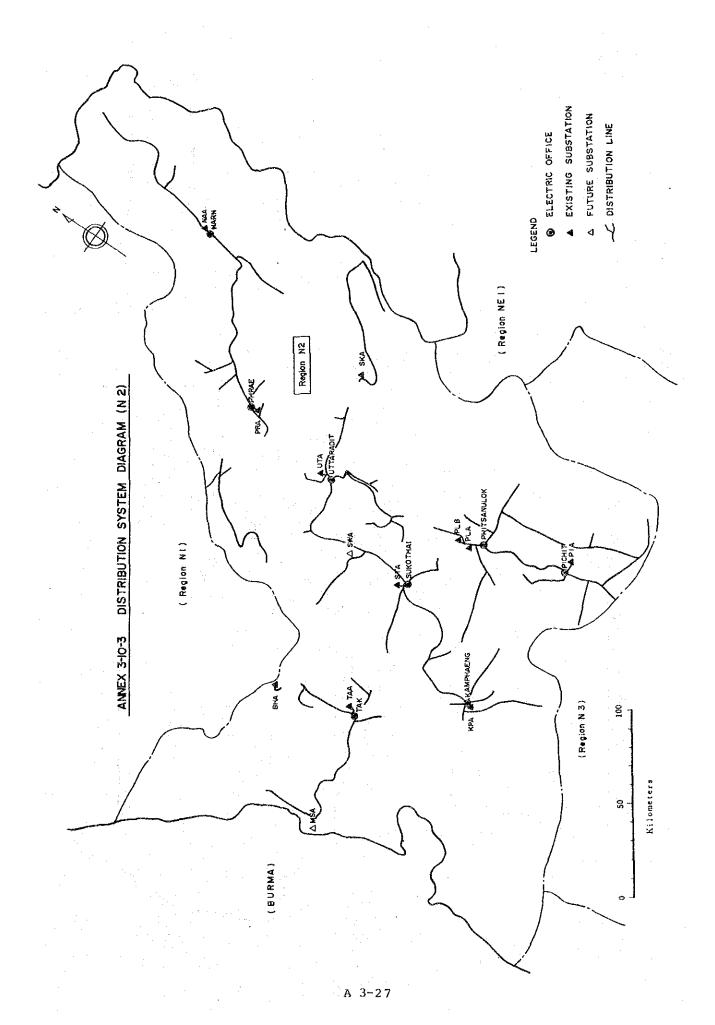
SUBSTATION DATA (S3)

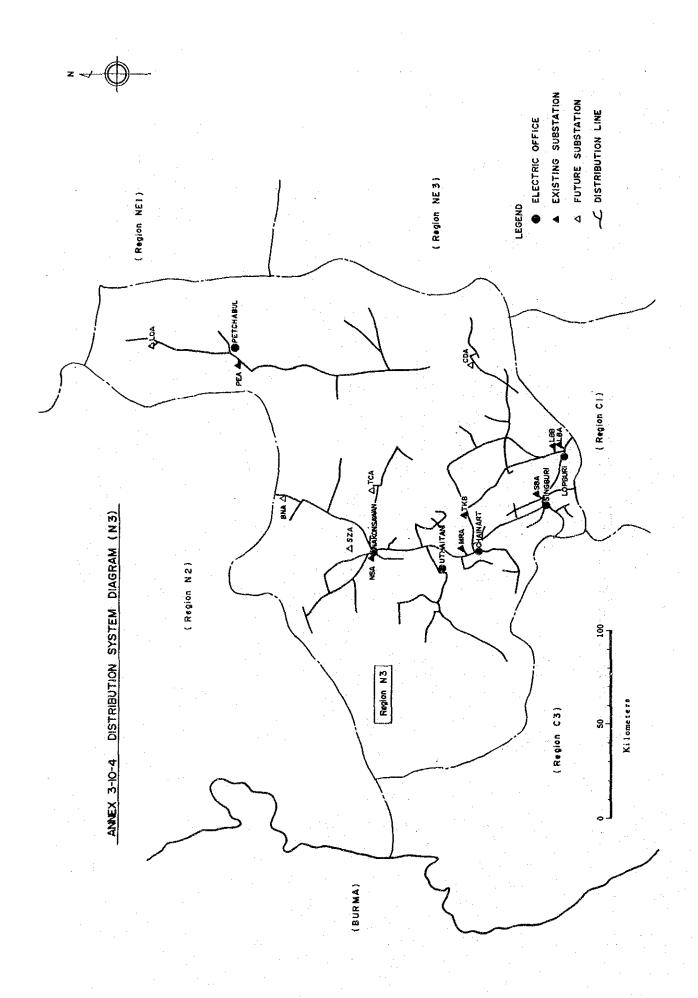
TRANSFORMER VOLTAGE NO. OF SWITCHGEAR CAPACITY (kV) C B RECLOSER CAPACITY (kV) C B HYDRAULIC ELECTRONIC 1 x 7.5 33 B 2
m m
33 B 4
33 B 5
28 0

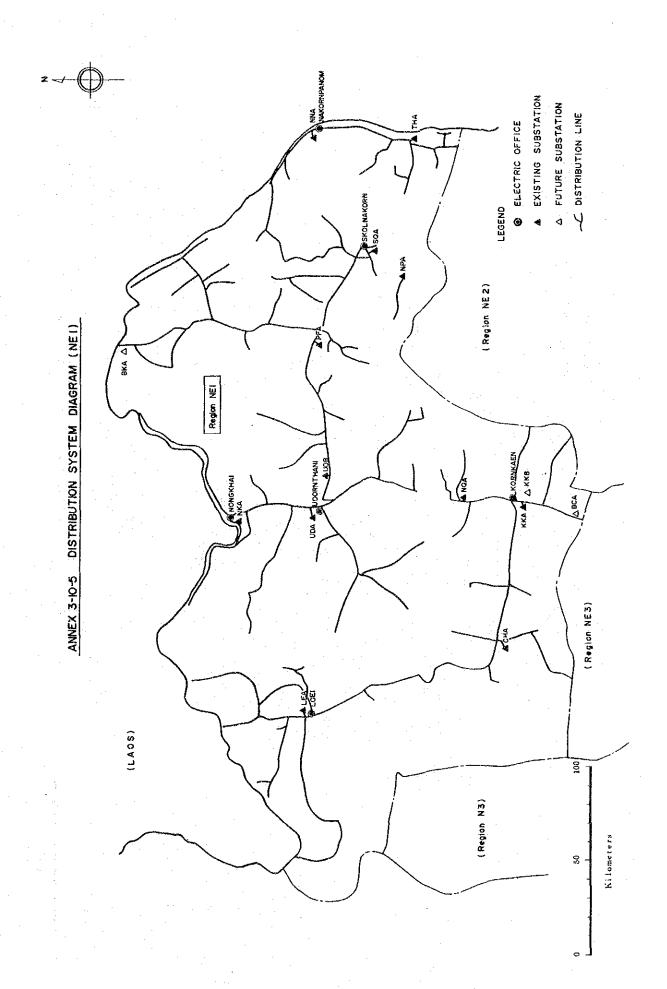
ANNEX 3-10-1 SUBSTATION SYMBOL LIST

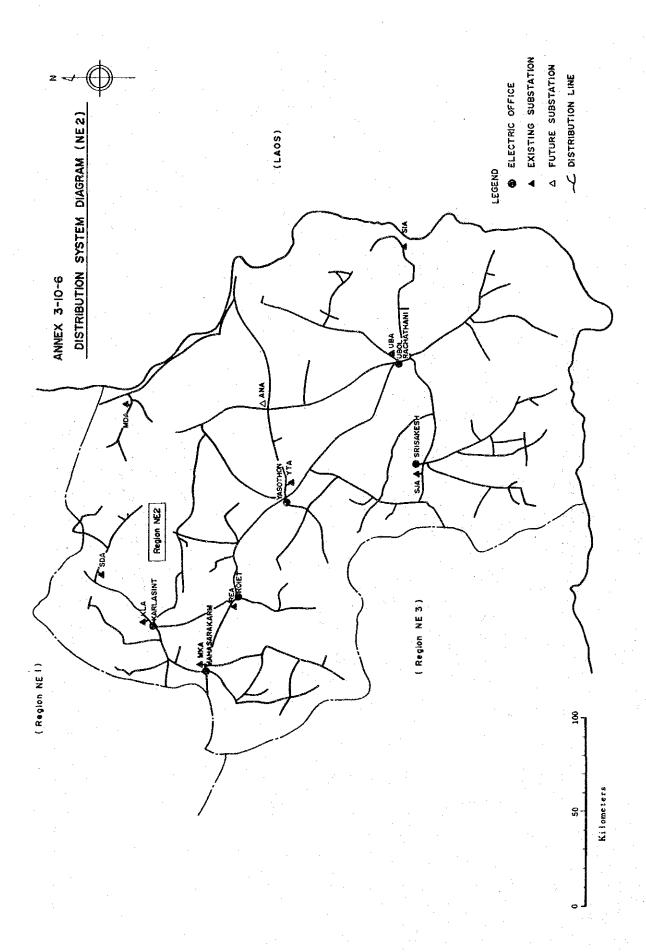
Substation Name	Symbol	Substation Name	Symbol	Substation Name	Symbol
NI	3,7,000	N2		N3	
CHIANG MAI 1	CMA	BHUMIBOL	BHA	LOP BURI 1	LBA
CHIANG MAI 2	СМВ	KAMPHAENG PHET	KPA	LOP BURI 2	LBB
CHIANG MAI 3	CMC	NAN	NAA	MANOROM	MRA
CHIANG RAI	CRA	PHRAE	PRA	NAKHON SAWAN	NSA
LAMPHUN 1	LNA	PHICHIT	PIA	PHECHABUN	PEA
LAMPHUN 2	LNB	PHITSANULOK 1	PLA	SING BURI	SBA
LAMPANG 1	LPA	PHITSANULOK 2	PLB	TAKHLI 2	TKB
LAMPANG 2	LPB	SIRIKIT	SKA	LOMSAK	LOA
FANG	FAA	SUKHO THAI	STA	CHAI BADAN	CDA
MAE HONG SON	MHA	TAK	TAA	THATAKO	TCA
MAE MHO 2	MMB	UTTARADIT	UTA	SALOKBAT	SZA
MAE SARING	MAA.	SAWAN KHALOK	SWA	BANG MUN NAK	BNA
PHAYAO	PYA	MAE SOT	MSA		
THOEN	TEA	•			
MAE NGAT	MNG	·]		-
CHOM THONG	CEA				
				,	
NE1	4751	NE2		NE3	
CHUM PHAE	CHA	KALASIN	KLA	BURIRAM	BRA
KHON KAEN 1	KKA	MAHA SARAKHAM	MKA	CHAIYAPHUM	CYA
LOEI	LEA	MUKDAHAN ROIET	MDA	NAKHON RATCHASIMA 1	NRA
NAKHON PHANOM	NNA	SIRINDHORN	REA	NAKHON RATCHASIMA 2 PAK CHONG	NRB
NAM PHONG	NQA	()	SIA		PCA
NAM PHUNG	NPA NKA	SI SA KET SOMDET	SJA SDA	PHON	POA SFA
NONG KHAI	,	UBON RATCHATHANI 1		SHIKHIU	
PHANG KHON SAKON NAKHON	PFA	YASOTHON	UBA YTA	SURIN	SUA
	SOA THA	AMNAT CHARDEN	ANA	PHIMAI PRAKHONCHAI	PMA PVA
THAT PHANOM UDON THANI 1	UDA	ARINAT CHARDEN	AIVA	PRAKHONCHAI	PVA
UDON THANI 2	UDB				1
BUNG KAN	BKA	· '	[}
1	KKB	The state of the s	1		
KHON KAEN 2 BAN PHAI	BCA			•	
CHULARHORN	CUA		}		
CHULARHORN	COA		1		
C1		C2	<u> </u>	C3	
ANG THONG 1	ATA	AO PHAI	APA	C3 BAN PONG 1	BPA
	ATA ATB		ВВА		BPB
ANG THONG 1		AO PHAI	1	BAN PONG 1	
ANG THONG 1 ANG THONG 2	ATB	AO PHAI BAN BUNG BANG LAMUNG CHON BURI	BBA BLA CBA	BAN PONG 1 BAN PONG 2	BPB
ANG THONG 1 ANG THONG 2 AYUTTAYA 1	ATB AYA	AO PHAI BAN BUNG BANG LAMUNG	BBA BLA CBA CCA	BAN PONG 1 BAN PONG 2 KANCHANA BURT	BPB KCA
ANG THONG 1 ANG THONG 2 AYUTTAYA 1 BANG KHAN	ATB AYA BKA	AO PHAI BAN BUNG BANG LAMUNG CHON BURI	BBA BLA CBA CCA CTA	BAN PONG 1 BAN PONG 2 KANCHANA BURT KAMPHAENG SAEN	BPB KCA KSA
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ANG THONG 1 ANG THONG 2 AYUTTAYA 1 BANG KHAN BAN MAI BAN PA IN PRACHIN BURI PATHUM THANI SARABURI 1 SARABURI 2 SARABURI 3 SARABURI 4 THALAN THANYA BURI WATTHANA NAKHON PRAPHUTTHABAT NAKHONNAYOK AYUTTHAYA 2 NAVANAKHON PHETCHA BURI PRACHUAP KHIRI KHAN PRAN BURI RANONG RATCHABURI 1 RATCHABURI 2	ATB AYA BKA BMA BIA PAA PQA SRA SRB SRC SRD TLA TYA WNA PJA NYA AYB NVA CAA CPA PBA PDA PNA RBA RBB	AO PHAI BAN BUNG BANG LAMUNG CHON BURI CHACHOENG SAO CHANTHABURI KLAENG RAYONG 1 RAYONG 2 RAYONG 3 SRIRACHA TRAT PHANOM SARAKHAM PHANUTNIKHOM S2 CHIEW LARN KRABI KHANOM LAMPOORA NAKHON SI THAMMARAT PHANGNGA PHUKET 1 PHUKET 2	BBA BLA CBA CCA CTA KAA RAA RAB RAC SCA TTA PSA CLA KBA KNA LRA NTA PGA PKA PKB	BAN PONG 1 BAN PONG 2 KANCHANA BURT KAMPHAENG SAEN NAKHON CHAIST SAM PHRAN 1 SAMUT SAKHON 1 SAMUT SAKHON 2 SUPHAN BURT THA MUANG SAM PHRAN 2 DOEMBANG NANGBUAT SRINAGARIND KHAO LAEM S3 BANG LANG HAT YAI 1 HAT YAI 2 NARATHIWAT PHATTHALUNG SADAO SONGKHLA YALA	BPB KCA KSA NCA SAA SMA SMB SPA TMA SAB DBA SVA KHA HYA HYB NWA PUA SQA SLA YLA
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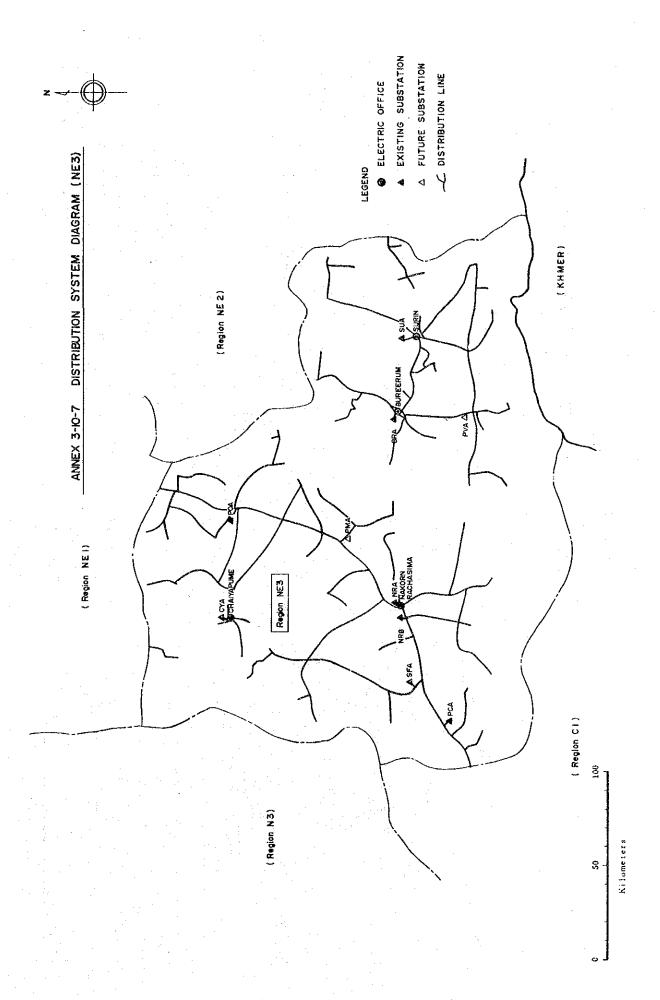


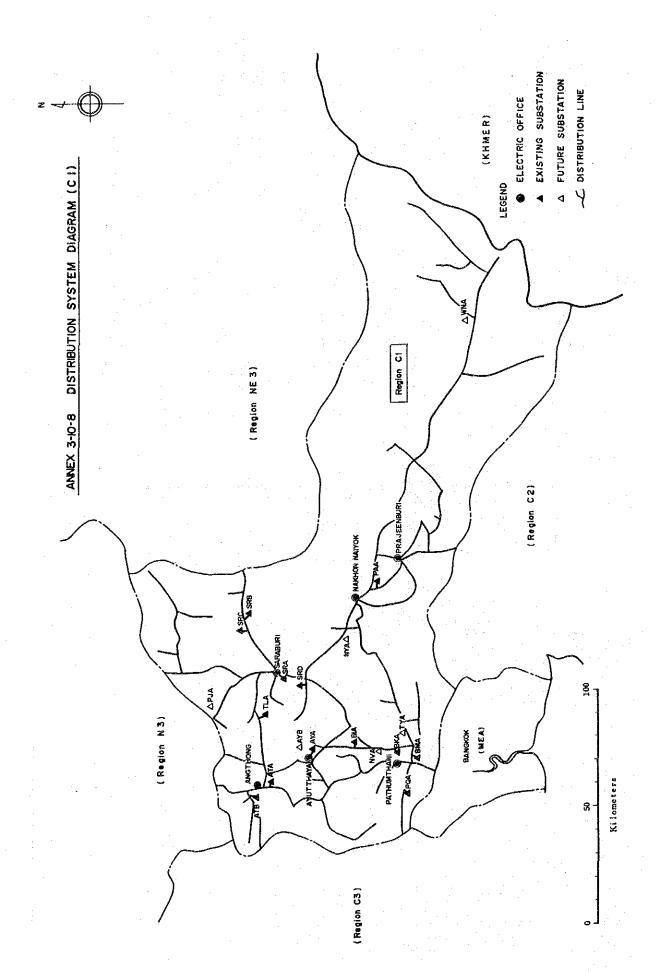


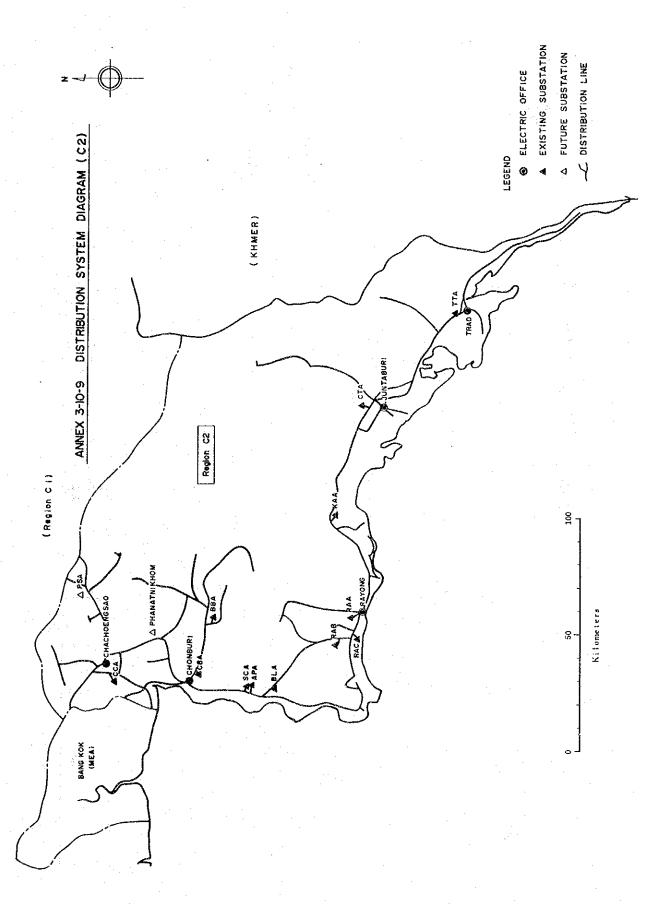


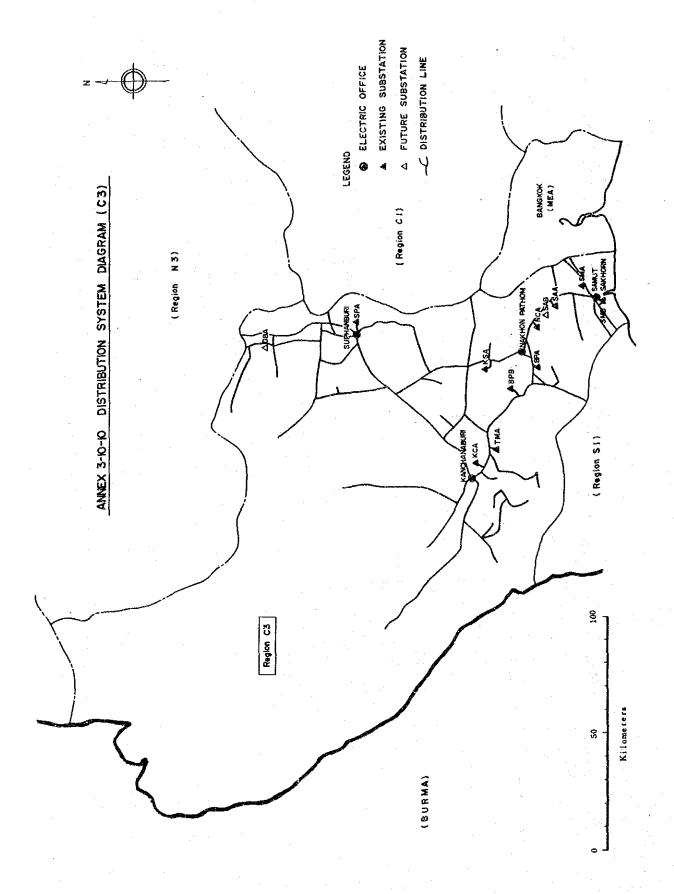


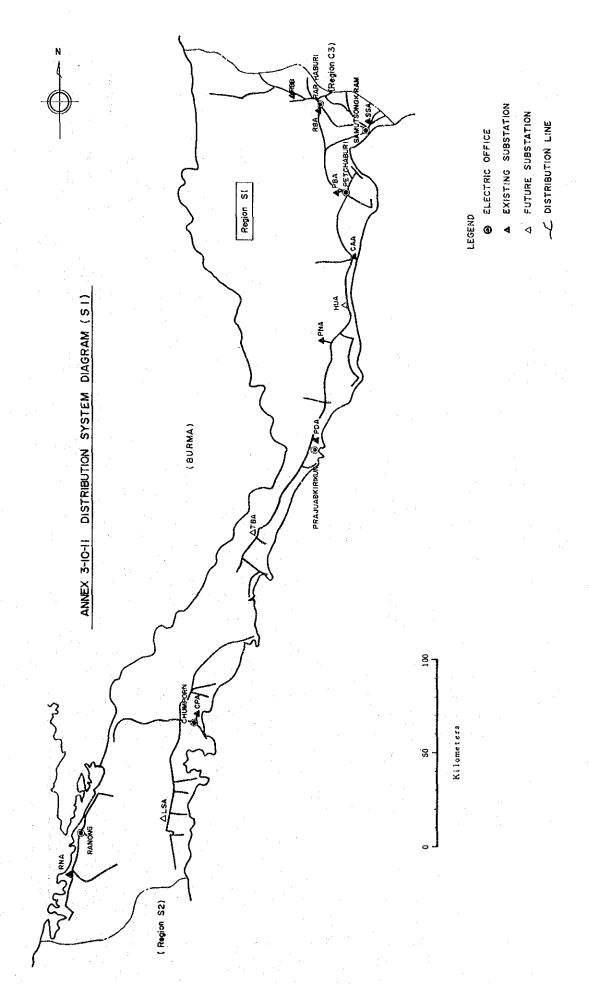


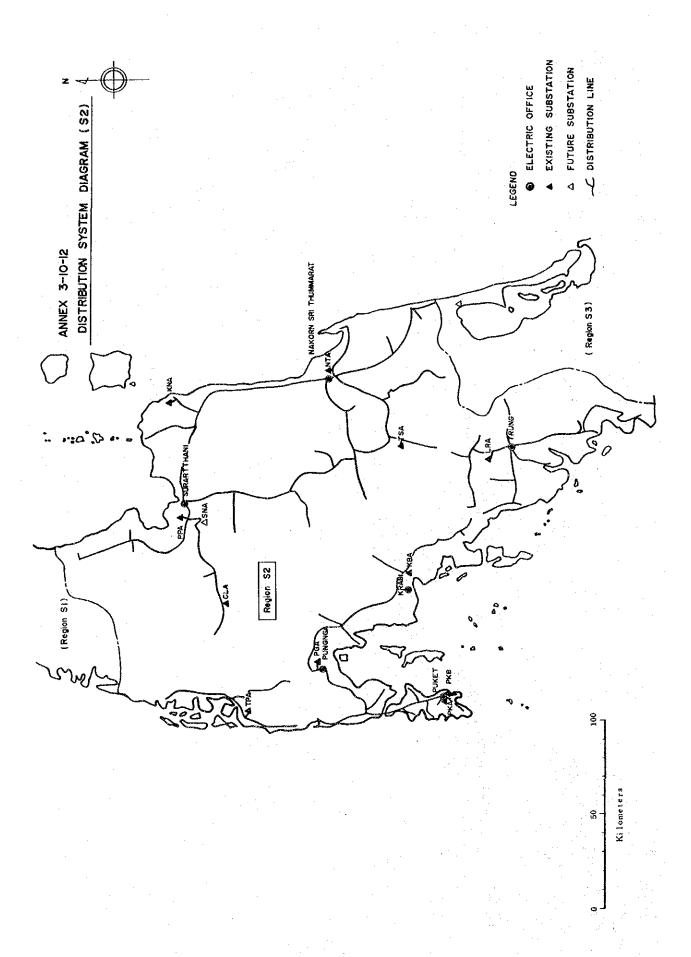


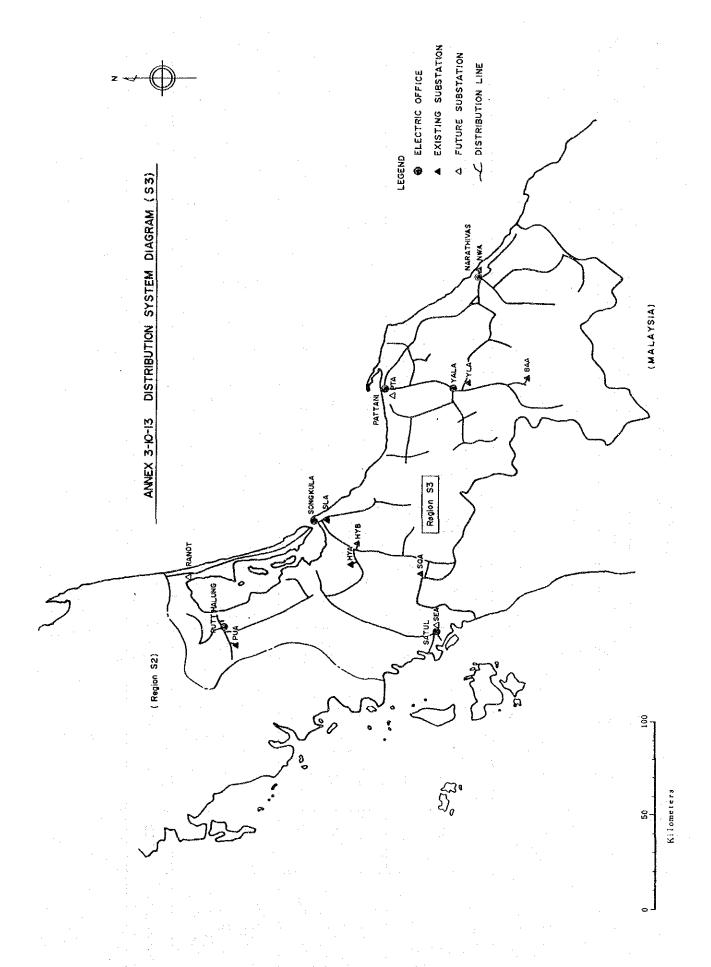












FREQUENCY OF FAULTS

(UNIT: TIMES)

	AVE/MON	52.9 39.3 8.3	130.5	61.9 39.0 52.4	153.3	67.2 50.2 67.3	184.7	58.7 56.4 70.3	185.4	653.9
	TOTAL	635 471 460	1,566	743 468 629	1,840	806 602 807	2,215	704 677 844	2,225	7,846
	JUL	59 26 39	124	60 51 47	158	81 55 47	183	72 81 70	223	989
	JUN	80 43 39	162	99 30 26	155	69 59 62	190	65 88 78	231	738
	MAY	50 42 67	159	97 55 55	207	70 90 106	266	116 83 101	300	932
1986	APR	142 124 84	350	137 62 111	310	141 64 79	284	74 74 61	209	1,153
	MAR	43 42 36	121	59 54 41	154	39 35 56	130	44 60 114	218	623
	FEB	32 38 27	26	26 22 29	77	34 19 42	95	23 34 60	117	386
	JAN	21 17 27	65	27 16 24	67	43 18 42	103	49 46 41	136	371
	DEC	13 10 24	47	34 22 33	88	30 33 56	119	36 39 67	142	397
	NOV	30 30 42	102	32 29 39	100	50 40 67	157	64 56 59	179	538
1985	OCT	46 33 34	113	46 47 40	133	53 53	185	52 34 35	121	552
	SEP	73 40 26	139	56 37 91	184	108 62 105	275	41 40 61	142	740
	AUG	46 26 15	87	70 43 93	206	88 74 66	228	68 42 97	207	728
	LTEMS	N1 N2 N3	SUB-TOTAL	NE1 NE2 NE3	SUB-TOTAL	3 2 2 3	SUB-TOTAL	S1 S3 S3	SUB-TOTAL	GRAND TOTAL

<u>ANNEX 3-11-2</u>

DURATION OF FAULTS

(UNIT: HOUR.MIN.)

_	_	The second residence of			-					
2007/ 2007	AVE/ MOR	96.48 88.29 65.18	250.34	261.02 105.32 75.56	442.30	94.21 77.21 85.06	256.48	129.25 160,55 169.39	459.59	1,409.52
1,00	TOTAL	1,161.34 1,061.48 783.30	3,006.52	3,132.28 1,266.23 911.13	5,310.04	1,132.10 928.13 1,021.10	3,081.33	1,552.59 1,931.02 2,035.49	5,519.50	16,918.19
	JUL	139.27 39.32 65.52	244.51	214.34 97.33 63.56	376.03	135.03 92.06 76.33	303.42	95.45 338.46 262.21	696.52	1,621.28
	JUN	94.04 66.45 84.35	245.24	424.07 86.46 55.10	566.03	98.12 91.25 68.35	258.12	185.42 173.49 208.23	567.54	1,637.33
	MAY	166.60 106.31 121.18	394.49	527.50 114.26 129.13	771.29	119.37 156.16 130.18	406.11	310.16 346.55 168.31	825.42	2,398.11
1986	APR	238.41 474.13 155.52	868.46	670.36 195.52 186.52	1,053.20	241.28 59.30 105.19	407.17	161.38 208.01 116.53	486.32	771.22 1,510.22 2,815.55 2,398.11 1,637.33 1,621.28
	MAR	73.26 69.58 87.39	231.03	232.15 184.22 58.32	475.09	73.55 38.44 96.16	208.55	126.47 161.58 306.30	595.15	1,510.22
	FEB	50.38 23.59 27.17	101.54	54.55 54.59 26.38	136.32	45.56 37.44 62.53	146.33	98.52 146.05 141.26	386.23	771.22
	JAN	44.25 17.27 48.18	110.13	107.22 23.58 79.57	211.17	56.26 15.27 32.33	104.26	72.59 101.30 66.41	241.10	90.799
	DEC	42.09 14.50 31.21	88.20	152.41 36.53 55.03	244.37	56.53 30.35 48.54	136.22	104.36 82.41 182.49	370.06	839.25
	NOV	41.05 47.09 33.45	121.59	55.06 52.20 34.38	142.04	58.07 54.58 68.12	181.17	128.08 100.21 119.32	348.01	793.21
1985	OCT	63.48 55.44 67.15	186.47	134.17 181.01 56.25	371.43	37.42 86.58 112.05	236.45	60.39 79.22 75.48	215.49	1,011.04
	SEP	121.49 83.01 33.25	238.15	235,39 72.54 93.32	402.05	131.06 76.27 155.52	363.25	51.46 91.40 116.18	259.44	1,263.29
	AUG	84.59 62.39 26.53	174.31	323.06 165.19 71.17	559.42	77.45 188.03 62.40	328.28	155.51 99.54 270.37	526.22	1,589.03
27	CMSTT	NI N2 N3	SUB-TOTAL	NE1 NE2 NE3	SUB-TOTAL	ចខូខ	SUB-TOTAL	S1 S3 S3	SUB-TOTAL	GRAND TOTAL

ANNEX 3-11-3

FREQUENCY OF FAULTS BY CAUSE (1)

(UNIT: TIMES)

TTEMS			CAUSE BY			TOTAT
	TREE	HUMAN/ANIMAL	EQUIPMENT	UNKNOMN	OTHERS	TWICT
	95 88 49	37 35 46	88 88 101	234 88 46	181 172 218	635 471 460
	232	118	277	368	571	1,566
	145 134 38	58 4 4 6	213 96 123	221 143 143	106 47 279	743 468 629
	317	152	432	507	432	1,840
	46 49 50	72 66 76	290 144 223	240 157 115	158 186 343	806 602 807
	145	214	657	512	687	2,215
	209 195 210	58 91 81	133 125 162	193 183 195	111 83 196	704 677 844
	614	230	420	571	390	2,225
	1,308	714	1,786	1,958	2,080	7,846

ANNEX 3-11-4

DURATION OF FAULTS BY CAUSE (2)

(UNIT: HOUR.MIN.)

			CAUSE RV			
ITEMS	TREE	HUMAN/ANIMAL		UNKNOMN	OTHERS	TOTAL
N1 N2 N3	414.31 448.03 152.50	88.21 52.13 87.16	271.56 261.46 342.45	191.04 134.55 55.39	195.42 164.51 145.00	1,161,34 1,061,48 783.30
SUB-TOTAL	1,015.24	227.50	876.27	381.38	505.33	3,006,52
NE1 NE2 NE3	882.38 436.39 113.15	230.11 98.35 63.00	1,247.01 388.42 396.07	529.03 269.17 170.41	243.35 73.10 168.10	3,132,28 1,266,23 911,13
SUB-TOTAL	1,432.32	391.46	2,031.50	10.696	484.55	5,310.04
C1 C2 C3	66.35 75.08 98.14	75.56 130.02 109.18	706.51 318.28 481.46	164.36 178.10 131.23	118.12 226.25 200.29	1,132,10 928,13 1,021,10
SUB-TOTAL	239.57	315.16	1,507.05	474.09	545.06	3,081.33
S1 S2 S3	585.06 880.26 900.26	150.28 213.55 115.23	494.45 430.04 489.26	217.10 290.39 265.03	105.30 115.58 265.31	1,552,59 1,931,02 2,035,49
SUB-TOTAL	2,365.58	479.46	1,414.15	772.52	486.59	5,519,50
GRAND TOTAL	5,053.51	1,414.38	5,829.37	2,597.40	2,022.33	16,918.19

DISTRIBUTION SYSTEMS OPERATION AND MAINTENANCE TRAINING COURSE

1. Objective

To promote working knowledge of PEA personnel concerning distribution systems operation and maintenance

2. Training Subjects

2.1 Lectures

- 2.1.1 Roles and responsibilities of distribution systems operation and maintenance work
- 2.1.2 PEA distribution systems
- 2.1.3 General problems concerning power distribution
- 2.1.4 Distribution systems protective equipment
- 2.1.5 Overcurrent protection coordination
- 2.1.6 Distribution systems maintenance
- 2.1.7 Distribution systems revamping
- 2.1.8 Street Lighting
- 2.1.9 Improvement of distribution systems efficiency
- 2.1.10 Use and maintenance of electrical measuring instruments
- 2.1.11 Use and maintenance of mechanical tools
- 2,1.12 General problems concerning daily-paid workers
- 2.1.13 Safety

2.2 Practices

- 2.2.1 Operate recloser
- 2,2.2 Operate oil switch
- 2.2.3 Operate load buster
- 2.2.4 Inspect and use hydraulic compression tool
- 2.2.5 Use electrical measuring instruments
- 2.2.6 First aids

DISTRIBUTION CONTROL STATION OPERATOR TRAINING COURSE

1. Objective

To promote working knowledge of PEA's distribution control station operators

2. Training Subjects

- 2.1 Structure and equipment in distribution control station
- 2.2 AC/DC power board
- 2.3 Circuit breaker
- 2.4 Recloser (Hydraulic & Electronic Controlled)
- 2.5 Protective relay
- 2.6 Control board
- 2.7 Overcurrent protection coordination
- 2.8 Battery charger
- 2.9 Battery
- 2.10 Radio communication

3. Training Methodologies

- 3.1 Lecture in the classroom with audio-visual aids such as
 - Overhead projector
 - Slide projector
 - Videogramme

3.2 Practice

- At substation site

- 4. Type of Trainees
 - Technicians
- 5. Number of Trainees per Course
 - about 30 persons
- 6. Duration
 - 8 days
- 7. <u>Instructors</u> from
 - Research Division
 - Transformer Division
 - Distribution System Dispatching Center
 - Training Center

DISTRIBUTION CONTROL STATION OPERATION (ON-SITE) TRAINING COURSE

1. Objective

To familiarize involving PEA technicians with the nature and functions of distribution control station operations

2. Training Subjects

- 2.1 General knowledge of switchgear
- 2.2 Overcurrent protection coordination
- 2.3 Power purchasing between EGAT and PEA
- 2.4 Operating directions for control board and circuit breaker
- 2.5 Daily load reporting and directions for substation operations

3. Training Methodologies

- 3.1 Lecture in the classroom with audio-visual aids such as
 - Overhead projector
 - Slide projector

3.2 Demonstrations

- In substation control rooms
- At substation switchyards

4. Type of Trainees

- Technicians

5. Number of Trainees per Course

- about 30 persons

6. Duration

- 2 days

7. Instructors from

- Research Division
- Transformer Division
- Distribution System Dispatching Center
- Training Center

SUBSTATION OPERATION TRAINING COURSE

1. Objective

To promote working knowledge of PEA personnel concerning substation operation

2. Training Subjects

- 2.1 Distribution systems and equipments
- 2.2 Substation equipments and installations
- 2.3 Power transformer operations
- 2.4 Circuit breaker operations
- 2.5 Substation protection
- 2.6 Substation protection
- 2.7 Principle of radio communication
- 2.8 Switching order of disconnecting equipment in substation
- 2.9 Principle of battery and battery charger
- 2.10 Operational regulations on substation operations and maintenance

3. Training Methodologies

- 3.1 Lecture in the classroom with audio-visual aids such as
 - Overhead projector
 - Slide projector
 - Videogramme

3.2 Practice

- At substation site

- 4. Type of Trainees
 - Technicians
- 5. Number of Trainees per Course
 - about 30 persons
- 6. Duration
 - 5 days
- 7. Instructors from
 - Regional Electric Administration
 - Distribution System Dispatching Center
 - Research Division
 - Electrical and Mechanical Engineering Division
 - Training Center
 - Transformer Division

DISTRIBUTION SYSTEM DISPATCHING CENTER OPERATION TRAINING COURSE

1. Objective

To promote working knowledge of PEA operators of distribution systems dispatching centers

2. Training Subjects

- 2.1 Structure and equipment in power substation
- 2.2 AC/DC power board
- 2.3 Power switches
- 2.4 Circuit breaker
- 2.5 Recloser (Hydraulic & Electronic controlled)
- 2.6 Voltage regulator
- 2.7 Protective relay
- 2.8 Control board
- 2.9 Overcurrent protection coordination
- 2.10 Battery charger
- 2.11 Battery

3. Training Methodologies

- 3.1 Lecture in the classroom with audio-visual aids such as
 - Overhead projector
 - Slide projector
 - Videogramme

3.2 Practice

- At substation site
- At distribution systems dispatching center

- 4. Type of Trainees
 - Technicians
- 5. Number of Trainees per Course
 - about 30 persons
- 6. Duration
 - 8 days
- 7. Instructors from
 - Research Division
 - Transformer Division
 - Electrical and Mechanical Engineering Division
 - Distribution System Dispatching Center
 - Training Center

DISTRIBUTION SYSTEM DISPATCHING CENTER OPERATIONS FOR ENGINEERS TRAINING COURSE

1. Objective

To promote working knowledge of PEA engineer concerning distribution system dispatching center operations

2. Training Subjects

- 2.1 Working psychology and human relationship
- 2.2 Problems on distribution system dispatching center operations
- 2.3 Load flow reports and data for electricity repair
- 2.4 Improvement of Reports on distribution system dispatching center operations
- 2.5 Group discussion

3. Training Methodologies

- 3.1 Lecture in the classroom with audio-visual aids such as
 - Overhead projector
 - Slide projector
- 3.2 Seminar session

4. Type of Trainees

- Engineers working as distribution system dispatching center supervisors

5. Number of Trainees per Course

- about 30 persons

6. Duration

- 4 days

7. Instructors from

- Transformer Division
- Research Division
- Power Economics Division
- Distribution System Dispatching Center
- Project and Planning Division
- Meter Division
- Electrical and Mechanical Engineering Division
- Training Center
- General Affairs Division
- Office of Deputy General Manager for Operations

ENERGY DEMAND BY SUBSTATION (NI)

(UNIT: GWh)

MOTE ACCES						ACTUAL						GROWTH RATE
SUBSTALTON	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	(%/YEAR)
CHIANG MAI 1, 2 & 3	80.02	92.53	109.66	126.78	146.91	154.91	163.38	178.66	212.98	234.88	269.02	11.7
CHAIANG RAI							18.99	50.45	66.71	81.03	90.07	47.6
LANPHON 1	9.98	18.15	25.51	28.46	30.93	23,80	27.43	28.47	31.24	26.76	29.75	4.6
LANPHON 2			•			11.10	13,54	21.61	27.77	37.42	30.30	35.5
LANPANG 1 & 2	30.96	36.90	45.74	53.58	60.21	61.45	63.62	71.49	84.01	87.64	95.29	9.2
MAE MHAO 2			0.01	0.08	0.10	0.12	0.15	0.64	1.32	2.01	2,32	80.8
PHAYAO		4.43	26.77	35.81	44.10	50.35	47.07	26.45	29.99	34.31	41.36	(3.9)
THOEN	0.48	0.73	1.06	1.97	1.98	2.15	2.43	5.34	6.65	7.46	8.97	33.1
CHOMTONG				:				-				
BAN KHUN KLANG	*****									0.56	1.09	0.0
BAN YANG	90.0	0.19	0.15	0.08	0.29	0.33	0.33	0.35	0.34	0.41	0.38	2.9
NEA	0.88	1.07	1.35	1.68	1.93	2.14	2.36	8.26	6.30	12,40	15.40	48.4
TOTAL	122.38	154.00	210.25	248.84	285.73	306,35	339.30	391.72	467.31	524.88	583.94	13.8
									-	£		

10 HB 180 610						FORECAST						GROWTH RATE
	1986	1987	1988	1989	1990	1991	1992	1993	7661	1995		(Z/YEAR)
	286.28	313.90	343.77	376.03	410.82	448.29	488.58	531.83	578.20	627.83		80
	98.12	111.42	123.26	135.50	148.32	161.37	174.58	187.78	200.92	213,92		0.6
	73.75	63,79	70.26	84.37	104.60	133.70	164.00	192.22	216.12	238.89		14.8
	101.74	112.40	120.52	128.65	137.09	145.54	153.95	162.20	170.30	178.19		6.5
	2.41	2.62	2.82	3.03	3.26	3.51	3.76	4.03	4.30	4.58		7.0
	44.76	51.27	57.53	63.98	70.74	77.65	84.65	91.67	98.66	105.59		8.6
	9.91	11.59	12.98	14.43	15.95	17.51	19.09	20.68	22.27	23.85		10.3
		17.08	18.42	19.80	21.25	22.72	24.21	25.68	27.15	28.58		6.6
	:							į		,	-	,
	19.00	23.70	24.00	24.30	24.70	25.00	25.30	25.70	26.10	26.50		5.6
ł	635.97	707.76	773.56	850.09	936.72	936.72 1,035.28 1,138.12 1,241.78 1,344.01 1,447.94	1,138.12	1,241.78	1,344.01	1,447.94		5.6

ENERGY DEMAND BY SUBSTATION (N2)

(UNIT: GWh)

CITECTATION						ACTUAL						GROWTH RATE
CORRECTION	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	(%/YEAR)
BHUMIBOL	0.16	0.16	0.27	0.35	0.46	0.50	0.85	1.10	1.34	1.57	2.06	32.8
KANPHAENG PHET							10.50	33.02	39.74	46.92	53.22	50.1
Zez												
PHARE	5.27	14.64	19.30	23.81	26.70	39.26	50.30	58.17	68.72	77.20	88.03	17.5
PHICHIT	700		10.35	19.55	25.96	35.19	43.29	51.08	60.70	67.61	75.81	16.6
PHITSANULOK 1	46.16	51.12	53.13	60.39	69.47	70.79	78.64	86.78	99.80	112.54	126.14	12.2
SIRIKIT				0.05	0.59	0.92	1.17	1.45	1.89	2.29	2.83	25.2
SUKHO THAI	15.11	19.10	28.18	37.21	44.58	54.90	56.30	43.09	48.64	53.82	60.35	6.1
TAK	8.14	9.54	11.34	12.81	14.48	19.20	24.82	28.02	34.30	38.40	41.86	16.9
UTTARADIT	14.09	17.94	22.28	24.94	28.21	32.02	36.55	40.26	49.77	59.23	68.87	16.6
PHITSANULOK 2											0.73	
¥ FCE	00	112 70	17.5 9.7	170 10	37 016	750 77	200 7.3	70 676	00 707	73 027	210 00	l/
18101	76.00	r +	† O	2	C+.017	777.11	34:300	744.31		77.67	20.01	1

1	1000	0801	0000	FORECAST	1000	1603	100%	1005	GROWTH RATE
1987	1988	1989	0661	1661	1992	1995	1774	1992	(Z/YEAR)
2.88	3.41	4.00	4.65	5.37	6.16	7,03	7.97	8,99	 15.9
63.08 69	69.63	76.37	83.39	90.52	97.70	104,85	111.95	118.95	4.0
	67	46.04	50.95	56.15	61.59	67.24	73.08	79.10	80.0
	. 57	74.46	79.48	84.45	89.35	94,12	98.76	103.24	1.6
87.48 95.	31	103.15	111.15	119.04	126.75	134.19	141.32	148.10	6.0
34.05 144.	3	154.87	165.76	176.66	187.44	197.99	208.24	218.08	5.6
3.8	m	4.24	4.69	5.18	5.71	6.28	6.90	7.56	10.3
<u>.</u> .		85.24	92.26	99.37	106.47	113.48	120,39	127.15	7.7
49.10 53.2	् - •	57.18	61,32	62.49	99.69	73.79	77,86	81.86	0,0
4 86.16	. ^	93.44	101.23	109.34	117.73	126,31	135.08	143.97	7.7
	_	8.29	9.00	9.71	10.42	11,12	11.83	12.48	32.9
-			300		0.00	0, 300		,	
50.550 65.009		87./0/	703.69	871.128	00.6/8	730.40	445.55	19.049.41	c.,

ENERGY DEMAND BY SUBSTATION (N3)

(UNIT: GWh)

						ACTUAL						GROWTH RATE
SUBSTALTON	1975	1976	1977	1978	1979	1980	1881	1982	1983	1984	1985	(%/YEAR)
LOP BURI 1 & 2	41.11	53.33	64.63	72.06	74.52	79.29	91.42	91,89	102.11	114.12	125.71	9.7
MANOROM	17.73	21.98	27.09	28.02	32.86	41,56	46.14	51,99	61.50	66.88	77.39	13.2
NAKHON SAWAN	47.74	53.63	68.17	81.24	88.76	93.93	99.03	106.31	123.21	136.53	151.71	10.1
PHETCHA BUN		-	14.17	22.73	28.20	33.76	39.84	44.64	54.62	59.83	61.72	12.8
SING BURI	13.09	18.04	22.12	27.57	32.85	35.08	40.57	48,63	54.76	54.72	59.45	31.1
TAKHLI 2	14.06	14.89	16.56	18.15	20.19	20.89	21.90	23.59	24.94	27.00	28.31	6.3
LOMSAK						need to be a second						
CHAI BADAN	,											
TOTAL	133.72	161.87	212,74	249.76	277.37	304.51	338,91	367.05	421.15	459.08	504.29	10.6

COLUMN COLON						FORECAST					GROWTH RATE
SUBSTRITUR	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	(%/YEAR)
LOP BURI 1 & 2	138.70	150.63	144.92	153.53	162.55	171 66	180.81	189.90	198.96	207.94	 5.2
MANOROM	80.34	93.50	100.74	108.11	115.77	123.46	131.15	138.74	146.21	153.53	 7.1
NAKHON SAWAN	165.06	182,29	195.89	209.92	224.69	239.69	254.80	269.83	284.73	299.39	7.0
PHETCHA BUN	73.16	81.78	47.96	51.83	56.09	60.37	64.63	68.83	72.95	76.97	2.2
SING BURI	61.64	66.93	71.33	76.65	82.14	87.66	93.17	98,60	103.96	109.23	6.3
TAKHLI 2	29.87	31.94	33,70	35.47	37.32	39.15	76.07	42,73	44.45	46.12	 5.0
LOMSAK			28,20	30.88	33.85	36.89	39.98	43.06	46.15	49.21	۳, ش
CHAI BADAN			28.96	31.72	34.78	37.91	80:15	44.26	47.45	50.63	e. 8
TOTAL	548.76	607.07	621.69	698.11	747.19	796.79	846.59	895.96	944.86	993.02	7.0

ENERGY DEMAND BY SUBSTATION (NEI)

(UNIT: CLAN)

Silbenanda						ACTUAL			!			GROWTH RATE
NOTIFICA	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	(Z/YEAR)
CHUM PHAE	4.64	11.08	18.53	23.85	27.44	33.60	39.02	26.71	30.12	38.32	43.47	5.3
KHON KAEN 1	46.20	54.48	65.12	83.50	87.54	92.40	107.51	118.72	129.71	143.35	155.95	11.0
IORI								24.87	30.74	35.60	42.07	19.2
NAKON PHANOM	11.99	10.16	11.56	12.73	13.17	14.62	15.20	16.79	20.24	21.76	22.70	9.2
NAM PHONG							0.68	25.78	40.83	41.64	39.25	
NAM PHUNG	0.18	0.20	0.35	0.47	09.0	0.64	0.76	0.93	1.27	1.62	2.06	26.5
NONG KHAI	11.94	14.06	15.36	20.08	23.14	24.90	29.66	33,39	39.49	44.02	47.24	13.7
PHANG KHON								18.61	22.65	28.45	29.48	•
SAKON NAKHON	13.41	18.55	18.95	23.44	25.12	28.02	35.24	24.54	29.64	32.73	37.13	ω. 90
THAT PHANOM	2.24	2.69	3.19	4.17	5.04	4.72	5.79	7.03	7.71	10.01	11.66	19.9
UDON THANI 1 & 2	70.52	75.01	81.50	88.13	99.16	80.601	129.48	139.56	147.92	163.30	178.31	10.3
BUNG KAN												
CHULA BHORN P/S						0.03	90.0	0.02	0.09	0.11	0.11	29.8
NA KAE	0.45	0.62	0.78	1.05	1.26	1.42	1.69	1.91	2.22	0.87	-	(11.7)
TOTAL	161.57	186.84	215.34	257.40	282.48	309.43	365.10	438.91	502.62	561.78	509.44	14.5
							-					

SITECALACION				.		FORECAST						GROWTH RATE
NOTIFIED	1986	1987	1988	1989	0661	1661	1992	1993	1994	1995		(Z/YEAR)
	-											
CHUM PHAE	47.37	53.95	60.31	66.94	73.92	81.09	88.40	95.76	103.15	110.52		80.05
KHON KAEN 1	165.86	181.57	196.11	210.97	226.43	242.04	257.67	273.13	288.39	303.38		6.9
LOEI	44.31	49.03	53.62	58.50	63.75	69.25	75.00	80.93	87.04	93.31		8.3
NAKON PHANOM	24.44	26.88	29.20	31.60	34.14	36.74	39.39	42.03	44.67	47.28		7.6
NAM PHONG	46.39	49.13	51.58	54.14	56.91	59.76	62.65	65.56	68.48	71.38		6.2
NAM PHUNG	2.38	2.80	3.25	3.74	4.26	4.82	5.41	6.02	29.9	7.36	********	13.6
NONG KHAI	52.56	49.26	52.84	56.37	90.09	63.72	67.38	70.98	74.52	77.99		5.1
PHANG KHON	32.74	33.36	37.06	40.65	44,12	47.32	50.18	52.65	54.71	56.35		6.7
SAKON NAKHON	39.12	42.77	46.13	49.55	53,11	56.68	60.24	63.74	67.17	70.52		9.9
THAT PHANOM	12.49	13.87	15.17	16.49	17.86	19.25	20.64	22.01	23.37	24.69		7.8
UDON THANI 1 & 2	186.97	204.56	220.79	237.24	254.17	270.96	287.38	303.12	318.04	331.95		6.4
BUNG KAN	:	13.76	15.76	17.95	20.31	22.85	25.55	28.38	31.33	34.37		12.1
CHULA BHORN P/S	0.13	0.14	0.15	0.17	0.18	0.20	0.21	0.23	0.25	0.27		 On
NA KAE												
TOTAL	654.75	721.05	781.96	844.30	909.21	974.66	1,040.09	1,104.54	1,167.79	1,229.36		7.3
										١		

ENERGY DEMAND BY SUBSTATION (NE2)

(UNIT: GWE)

TO YOU THO GIVE						ACTUAL						GROWTH RATE
SUBSIGITON	1975	1976	1977	1978	1979	1980	1981	1982	1983	1987	1985	(%/YEAR)
KALASIN									27.12	50.23	63.71	
MAHA SARAKHAM	20.02	27.86	36.67	49.40	53.83	60.62	75.46	75.35	71.41	16.69	74.61	4.2
MUKDAHAN	2.93	3.31	3.67	4.31	6.23	8.35	9.83	12.52	15.10	16.77	18.80	17.6
ROIET	0		0			·	Ü	0,	. 6	1	1 22	1
STRINDEON	50.0	70.0	80.5	1.2/	1.94	70.7	70,0	2,40	(7.7	7,0,	76-1	
SISAKET							2.41	28.52	38.08	47.51	56.53	120.1
SOMDET	0.93	1.55	2.37	3.16	4.20	2.60	9.20	17.68	13.89	15.38	17.17	25.1
UBON RATCHATHANI 1	40.95	47.07	57.23	19.89	76.07	82.74	93,42	76.12	91.62	101.55	110.44	6.5
YASOTHON	6.24	8.43	12.45	15.64	18.20	22.11	29.54	36.49	43.25	50.68	57.60	21.1
TOTAL	71.16	88.84	113.07	142.40	160.44	184.02	225,36	253.16	307.91	359,73	406.18	17.2

AND AREA COLUMN						FORECAST					GROWTH RATE
SUBSTATION	1986	1987	1988	1989	1990	1661	1992	1993	1994	1995	(%/YEAR)
KALASIN	58.07	52.12	57.65	63.74	70.16	76.78	83.53	90.34	97-19	104.03	5.0
TAHA SARAKHAM	61.63	57.67	64.55	71.82	79.49	87.56	96.55	106.04	116.02	126.49	5.4
TUKDAHAN	20.94	23.87	26.32	28.88	31.58	34.35	37,17	00.05	42.84	45.66	er 60
ROIET	33.87	70.09	77.95	86.12	94.72	103.52	112.48	121.48	130.49	139.46	17.0
SIRINDHON	10.42	11.06	11:74	12.46	13.21	13.99	14.81	15.66	16.55	17.47	F. 6
SISAKET	60.28	67.56	74.46	31.50	88.79	11.96	104.63	113.19	121.79	130.36	8.7
SOMET	20.00	22,83	25.85	29.06	32.46	36.07	39.87	43.88	48.09	52.51	11.8
IBON RATCHATHANI 1	116.55	127.40	137.61	148.26	159,56	171.20	183,10	195.13	207.27	219.45	
rasothon	57.89	60.27	67.29	74.55	82.14	89.89	97.71	105.53	113.30	121.66	7.8
TOTAL	439.66	492.86	543.42	596.38	652.11	709.46	769.85	831.26	893.53	957.08	8.9

ENERGY DEMAND BY SUBSTATION (NE3)

(UNIT: GWh)

GROWTH RATE (2/YEAR) 26.1 59.8 9.6 2.1 13.6 12.2 61.26 48.54 323.16 61.57 49.69 73.95 682.69 52.59 39.84 287.12 59.03 50.97 74.54 58.90 622.98 1984 43.21 32.74 255.06 54.70 64.14 48.82 543.77 1983 30.56 27.87 224.68 53.25 37.43 50.41 48.32 472.52 1982 433.13 7.45 234.78 76.71 48.70 65.49 1981 ACTUAL 1980 204.34 74.35 44.77 59.93 383.39 181.97 65.28 39.29 337.93 1979 51.40 164.25 51.86 35.15 294.62 1978 43.37 141.59 47.72 27.34 250.90 34.24 1977 128.43 34.30 21.12 209.65 1976 25.81 110.53 28.14 14.43 19.40 172.50 1975 BURI RAM
CHAIYA PHUM
NAKHON RATCHASIMA 1 & 2 1
PAK CHONG SUBSTATION TOTAL PHON SIKHIU SURIN

MOT WAR GUITS						FORECAST					GROWTH RATE
NOTTWICE	1986	1987	1988	1989 (1990	1661	1992	1993	1661	1995	(Z/YEAR)
BURI RAM	68.17		85.82	98.86	104.38	1,14,13	124.07	134.07	144.10	154.13	9.7
CHAIYA PHUM	53.43		64.43	69.82	75.46	81.19	86.98	92.76	98.53	104.27	7.9
NAKHON RATCHASIMA 1 & 2	340.72	370.26	394.70	419.46	445.18	470.72	495.96	520.33	543.91	566.08	80.
PAK CHONG	66.13		77.98	83.49	88.98	94.17	99.17	104.08	108.94	113.75	6.3
PHON	45.12		51.75	54.75	57.78	60.76	63.67	77.99	80.69	71.56	3,7
SIKHIU	76.54		86.48	91.18	96.03	100.78	105.39	109.73	113.78	117.71	 6.4
SURIN	69.33		84.07	91.11	98.44	105.81	113.23	120.57	127.78	134.78	7.6
TOTAL	719.44	786.49	845.23	904.67	966.24	1,027.58	1,088.46	1,147.97	1,206.11	1,262.25	 6.3
		•				_				•	•

ENERGY DEMAND BY SUBSTATION (C1)

(UNIT: GWh)

10 16 10 110						ACTUAL						GROWTH RATE
SUBSTALLON	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	(Z/YEAR)
ANG THONG 1	76.6	12.69	37.72	48.08	56.71	63.00	61.46	60.88	49.54	33.78	32.26	(12.5)
ANG THONG 2								0.67	30.65	44.84	52.93	
AYUTTHATA 1	24.30	29.43	36.33	45.35	50.06	50.18	48.43	48.03	76.21	90.95	113.90	17.8
BAN MAI									152.97	253.82	626.76	
BANG PA IN	25.68	38.66	53.40	62.06	64.79	71.07	68.54	70.00	80.58	93.23	97.23	6.5
PRACHIN BURI	16.67	21.42	30.19	39.25	96.07	56.82	72.80	82.25	16.56	107.82	122.47	16.6
SARABURI 1	44.14	63.38	70.42	77.78	77.30	75.93	68.17	90.53	99,83	101.20	100.97	5.9
SARABURI 2	70.94	71.33	81.10	85.43	86.00	95.18	148.59	211.88	229.27	271.33	313.63	26.9
SARABURI 3	68.87	109.94	141.94	146.62	138.95	136.44	137.67	132,32	139.98	141.23	119.46	(2.6)
SARABURI 4				5.36	22.21	39.51	54,13	66.73	96.99	74.00	87.33	17.2
THALAN	3.70	4.61	6.57	8.99	11.30	24.14	44.25	59.46	54.13	65.81	89.24	29.9
WATTHANA NAKHON												
MEA	21.28	19.22	17.78	21.96	23.22	30.52	35.16	41.60	35.90	14.20	00.9	(27.8)
TOTAL	385.52	370.68	475.45	540.88	571.50	642.79	739.20	864.34	1,111,93	1,292.20	1,762.19	22.3
				7								

1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C					1	FORECAST						GROWTH RATE
SUBSTALTON	1986	1987	1988	1989	1990	1661	1992	1993	1994	1995		(Z/YEAR)
								_			704	
ANG THONG 1	33.93	35.63	37.41	39.28	41.24	43.30	45.47	47.74	50.13	52.64	Meta m	5.0
ANG THONG 2	54.08	59.96	65.55	73.30	77.29	83.32	89.31	95.16	100.80	106.17		7.2
AYUTTHATA 1	120.10	132.76	144.95	157.77	171.46	185.60	200.08	214.66	229.26	243.71		7.9
BAN MAI	902.16	984.52	1,044.26	1,107.95	1,175.33	1,246.09	1,319.77	1,399.24	1,484.64	1,576.55		6.7
BANG PA IN	100.71	108.03	114.66	121.53	128.81	136.33	144.04	151.88	159.82	167.84		9
PRACHIN BURI	140.25	162.18	128.56	135.19	142.04	148.82	156.36	163.74	170.96	177.98	-	30
SARABURI 1	116.33	124.93	132.45	140.12	148.16	156.24	164.33	172.31	180.17	187.89		7.9
SARABURI 2	335.84	339.90	581.86	586.53	591.59	597.03	602.85	609.05	615.61	622.53	Primi	7.1
SARABURI 3	113.91	258.10	428.10	469.60	769.60	09.697	09:697	769.60	09.695	09.695		14.7
SARABURI 4	95.16	103.57	111.41	119.52	128.08	136.84	145.73	154.65	163.60	172.53		7.0
THALAN	98.27	106.28	113.69	121.39	129.57	138,00	146.65	155.41	164.28	173.21		6.9
WATTHANA NAKHON MEA			53.17	58.28	63.55	68.84	74.54	80.20	85.80	91.30		о 8
TOTAL	2,110.74	2,110.74 2,415.86 2,956.06	2,956.06	3,128.46	3,266.71	3,410.00	3,128.46 3,266.71 3,410.00 3,558.71 3,713.61 3,874.66	3,713.61	3,874.66	4,041.93	·	8.7

ENERGY DEMAND BY SUBSTATION (C2)

(UNIT: GWh)

						ACTUAL						GROWTH RATE
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	(%/YEAR)
AO PHAI										0.20	98.7	
BAN BUNG	e Marie	-		-			16.81	48.23	48.46	52.94	56.49	
BANG LAMING	37.64	50.73	58.12	70.60	78.77	89.29	98.24	109.97	128.38	147.29	156.73	11.9
CHON BURI	83.48	105.16	136.18	151.09	173.19	175.56	177.33	169.09	195.65	218.48	225,37	2
CHACHOENG SAO	36.21	38.26	36,02	50.64	59.68	77.95	89.20	100,12	112,35	126.79	152.18	14.3
CHANTHABURI				34.40	65,30	84,35	103.26	114.43	132.77	144.54	163.23	24.9
KLAENG									-			•
RAYONG 1	31.95	44.38	61.51	79.02	72.15	79.62	90.27	93.43	155.26	193.56	197.76	20.0
RAYONG 2									- Wido area	3.53	27.25	
RAYONG 3							-			2.27	42.27	
SRIRACHA	25.55	29.96	37.03	43.18	46.57	51.00	57,39	57.70	73.23	75.95	06.98	11.2
TRAT											-	
SATTABLE 2	96.9	9.77	10.48	13.97	9.58	13.77	17.67	19.41	17.01	13.95		8.0
TOTAL	221.79	278.24	339 34	68 677	205 24	571.53	650.16	712.38	863.11	979.52	1,112,03	£ 7!
				1	1		2		· · · · · · · · · · · · · · · · · · ·	1		•

GROWTH RATE	(X/YEAR)		28.4	7.0	6.1	7.4	7.3	4.7	17.5	10.1	12.6	28.0	6.9	7.7			10.2
										•		•,					
	1995		29.40	111.26	284 25	461.10	307.92	259.21	82.72	515.30	89.53	500.20	170.11	97.63			2,938.61
	1994		59.40	104.34	272.39	434.72	291.17	245.32	77 01	477.15	84.07	500.20	161.18	92.74			2,799.69
	1993		59.40	97.55	260.09	408.08	274.26	230.98	71.46	441.70	78.10	500.20	152.37	87.55			2,661.74
	1992		29.40	90,92	247.44	381.35	257.34	216.34	66.12	408.78	71.78	500.20	143.72	82,13			2,525.56
FORECAST	1991		59.40	84.44	234.43	354.75	240.47	201.52	60.97	378.20	65.26	500.20	135.20	76.56			2,391.41 2,525.56
	1990		59.40	78.20	221.25	328.54	223.88	186.77	56.04	349.84	58.73	473.80	126.93	70.93			2,234.31
	1989	4. 2. 4.	29.40	72.21	207.98	302.95	207.72	172.25	51.35	323.56	52.30	465.00	118.88	65.21			2,098,79 2,234,31
	1988		39.60	66.63	195.08	278.70	192,46	158,39	47.01	299.23	46.20	70.80	111.31	59,61			1,565.01
	1987		19.80	61.31	182.24	255.39	177.81	144.51	42.90	276.38	40.43	47.10	104.04	53.96			1,218.52 1,405.87 1,565.01
A	1986		7.90	55.80	166.01	230.09	162.20	177.19	19.34	225.21	34.71	47.10	95.98			:	1,218.52
CITOCONTO	SUBSTRITTON		AO PHAI	BAN BUNG	BANG LAMING	CHON BURI	CHACHOENG SAO	CHANTHABURI	KLAENG	RAYONG 1	RAYONG 2	RAYONG 3	SRIRACHA	TRAT	SATTAHIP 2		TOTAL

ENERGY DEMAND BY SUBSTATION (C3)

(UNIT: GWh)

TAX TO A COUNTY						ACTUAL						GROWTH RATE
SUBSTRITON	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	(%/YEAR)
CACC WAS	,	70 73		9		000	79 70	17 00	00	110	0	
ב שניין איניין איניין	*****	00:40	00.44	00.001	2	70.07	+0.50	103.03	20.70	71.0/1	00.061	7.5.7
BAN PONG 2	106.36	117.07	125.02	136.36	155.53	167.55	177.02	175.27	208.73	228.40	235.09	7.0
KANCHANA BURI	26.62	28.53	31.23	45.60	52.94	52.22	58.84	58.99	75,64	63.62	72.09	6.7
KAMPHAENG SAEN						· ·						
NAKHON CHAISI	102.92	118.89		165.41	196.91	229.87	247.81	254.12	246.02	270.48	282.27	4.2
SAM PHRAN 1	82.69	93.53	100.03	102.24	136.40	157.18	188.58	197.85	236.73	239.92	299.84	13.8
SAMUTSAKHON 1 & 2	93:03	155.36		195.62	251.35	237.25	225.83	249.80	276.27	282.26	281.01	3.4
SUPHAN BURI	18.02	23.34		28.12	43.90	50.39	52.92	97.09	62.00	81.23	89.11	12.1
THAMUANG		16.64		34,15	28.42	29.30	27.00	30.08	38,55	41.10	45.68	6,6
SRINAGARIND				0.04	80.0	0.16	0.26	0.29	0.38	0.61	0.73	35.0
KHAO LAEM								0.15	0.50	0.77	3,93	
TOTAL	464.06	608.22	709.13	808.09	972.73	1,022.61	1,082.78	1,136.66	1,275.71	1,022.61 1,082.78 1,136.66 1,275.71 1,386.51 1,505.24	1,505.24	0.80
				_								

SO YOU WOULD						FORECAST	1					GROWTH RATE
SUBSTALION	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995		(%/YEAR)
BAN PONG 1	210.99	195.77	212.15	228.62	245.59	262.48	279.10	295,35	311,16	326.39		5,3
BAN PONG 2	237.03	255.20	271.55	288.57	306.74	325.40	344.45	363,64	382,94	402.23		5.5
KANCHANA BURI	125.66	140.59	153.01	165.89	179.42	193.18	207.03	220.73	234.18	247.24		7.7
KAMPHAENG SAEN	33.44	75.01	82.71	90.57	98.63	107.03	115.51	124.05	132.64	141.22		17.4
NAKHON CHAISI												
SAM PHRAN 1	620.48	680.72	738.58	800.17	866.96	937.43 1	,011.46	1,088.50	1,168.72	~		8.0
SAMUTSAKHON 1	273.85	299.50	323,89	349.49	377.15	406.19	436.51	467.86	500.25	533.58	~-	9 9
SAMUTSAKHON 2												
SUPHAN BURI	76.66	113.53	126.27	138.77	151.45	163.81	176.24	188.52	200.56	212.21		- 6
THAMUANG												
SRINAGARIND	68.0	1.02	1.16	1.32	1.48	1.65	1.83	2.01	2.20	2.38		12.6
KHAO LAEM	13.95	15.12	15.32	15.52	15.73	15.94	16.16	16.39	16.63	16.86		15.7
FERCE	26 26	63 760 1 27 355 1	62 760 1	2 070 01	2 2/2 15	2 / 13 19	20 20 01 0 20 20 15 10 10 20 88 20 10 176 10 60 0 20 0 10 10 10 10 10 10 10 10 10 10 10 10	2 767 05	3 9/9 28	70 7EL E		7
LOIAL	67.010.1	07.0/1	1,544.03	16.0.0(2)	63.67.26.2	77.07.63		00.10162				?

ENERGY DEMAND BY SUBSTATION (S1)

(UNII: GWh)

CITACTATION						ACTUAL						GROWTH RATE
MOTTWICANG	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	(Z/YEAR)
CHA AM	79.63	85.68	92.91	80.15	85.39	80.67	85.44	87.99	102.39	100.23	110.08	4.9
CHUM PHON		-					28.31	51.48	61.17	68.11	76.88	28.4
PHETCHABURI	23.98	29.75	36.32	35.43	39.12	41.30	42.14	48.46	52.48	58.53	64.16	9.2
PRACHOAPKHIRI KHAN				•			15.50	26.86	31.80	35.81	41.03	27.5
PRAN BURI				26.44	39.79	16.87	42.87	35.91	39.49	41.53	47.18	(0.7)
RANONG	22.84	32.66	41.54	51.39	54.61	56.08	58.94	59.94	59.77	60.04	60.16	1.4
RATCHABURI 1	53.15	59.14	66.09	57.63	94.08	70.70	66.84	73.61	67.90	68.12	55.02	(6.4)
RATCHABURI 2										6.35	26.61	
SAMUTSONGKHRAM			15.08	23.53	29.78	30.56	32.59	45.53	90.49	72.86	86.26	23.1
TOTAL	179.60	207.22	246.84	274.56	342.76	328.22	372.62	429.77	479.06	511.58	567.38	9.17

TO E GO COLOR						FORECAST		*.			GROWTH RATE
SIALLUN	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	(Z/YEAR)
	120.22	130.80	200,46	211.41	223.06	235.44	248.57	262.47	277.18	292.72	10.3
CHUM PHON	81.46	91.26	100.25	109.72	119.84	130.32	141.09	152,11	163.33	174.67	9.0
PHETCHABURI	68.44	75.35	81.88	88.69	95.94	103.52	111.39	119.47	127.77	136.25	7.8
PRACHOAPKHIRI KHAN	45.98	52,15	57.88	63.80	69.93	76.22	82.58	88.92	95.17	101.23	 9.5
PRAN BURI	51.12	57.83	62.57	68.27	74.23	80.74	87.46	94.55	101.76	109.04	 8.7
RANONG	63.29	68.02	72.19	76.34	80.52	84.52	88.46	92.28	95.97	67.66	 5.2
RATCHABURI 1	56.99	64.24	70:92	77.69	84.57	91.59	79.86	105.69	112.59	119.29	 0.0
RATCHABURI 2	28.50	32.26	36.23	40.30	44.70	61.65	53.75	58.27	62.68	16.99	9.7
SAMUTSONGKHRAM	80.11	89.72	99.16	109.16	119.85	130.97	142.44	154.09	165.87	177.65	7.5
TOTAL	596.09	661.62	781.55	845.37	912.63	982.50	982.50 1,054.40	1,127.85	1,202.32 1,277.24	1,277,24	57

ENERGY DEMAND BY SUBSTATION (S2)

(UNIT: GWb)

CONT.						ACTOR						GROWIN RATE
SUBSTRITOR	1975	1976	1977	1978	1979	0861	1981	1982	1983	1984	1985	(%/YEAR)
Curet 4 AN				**************************************						000	30	
COLEW LAN	6,5	3 25	76 7	00 %	2 70	0 69	12 20	67 71	16 50	20.00	23 82	10.7
KHANOX	?		7	1			77.77	1.02	5.75	10.28	16.98	1
LAMPOORA	25.87	28.72	33,27	42.42	53.17	58.77	60.56	63.98	73.42	79.06	85.73	7.8
NAKHON SI THAMMARAT	17.68	22.42	31.48	38.73	41.63	47.20	56.48	69.76	81.53	90.76	106.71	17.7
PHANGNGA	11.75	7.50	8.79	8.64	10.71	12.20	14.49	14.88	16.25	18.17	19.56	O)
PHUKET 1 & 2	67.12	71.48	78.24	90.15	16.66	105.88	111.94	108.28	113.59	113.28	131.10	7.7
PHUNPHIN	17.67	31.07	45.86	56.24	67.88	80,10	92.43	97.36	109.97	117.01	128.24	9
TAKUA PA	7.32	6.27	6.75	8.16	9.36	9.72	9.80	11.98	14.91	15.93	18.83	14.1
THUNG SONG	14.56	17.91	22.35	23.56	28.63	30.73	33.94	36.22	39.13	78.46	47.28	0
TOTAL	164.50	188,60	230.99	272.89	318.03	354.30	391.84	417.88	471.05	513.74	580.61	10.4

The second second						FORECAST					GROWTH RATE
SUBSIALTON	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	(%/YEAR)
CHIEW LAN	2.83	3.33	3.75	4.14	4.54	4.97	5.42	5.88	6.38	68.9	11.2
KRABI	25.85	28.92	31.88	35.01	38.37	41.87	45.48	49.16	52.88	56.63	0.6
KHANOM	20.83	26.52	29.05	31.77	34.73	37.88	41.21	44.71	48.36	52.19	11.9
LAMPOORA	91.66	95.00	103.47	112.12	121.06	129.98	138.75	147.20	155.25	162.76	9.9
NAKHON SI THAMMARAT	117.50	125.79	137.74	150.15	163.23	176.65	190.33	204.13	218.03	231.97	 83
PHANGNGA	21.07	23.55	25.82	28.11	30.53	33.02	35.55	38.08	79.07	43.11	8.2
PHUKET 1 & 2	134.79	147.12	156.46	164.90	173.28	181.76	190.28	198.77	207.15	215.41	5.1
PHUNPHIN	133.64	148.67	162.06	175.97	190.66	205,71	221.01	236.40	251.83	267.22	7.6
TAKUA PA	20.28	22.61	24.76	26.84	29.11	31.35	33.64	35.94	38.27	19.05	0°
THUNG SONG	50.30	56.06	61.43	67.06	73.06	79.24	85.58	91.98	98.41	104.82	8.3
TOTAE	618.73	677.57	736.42	796.08	858.57	922.42	987.25	1,052.24	1,117.18	1,181.59	7.4

ENERGY DEMAND BY SUBSTATION (S3)

(UNIT: GWb)

GROWTH RATE (Z/YEAR) 68.9 9.5 16.5 5.3 12.8 14.98 310.31 58.98 31.80 26.22 135.16 577.46 1985 14.65 289.48 48.98 28.44 22.61 124.70 528.86 1984 13.26 263.99 37.27 23.78 18.68 124.07 481.04 1983 412.01 10.87 141.42 1982 19.54 14.81 1.84 1981 17.11 9.28 124.00 362.28 196.74 315.79 104.23 1980 14.81 87.26 1979 12.46 171.52 271.24 138.48 10.18 63.45 212.11 1978 112.36 45.70 8.22 166,29 1977 109,13 1976 91.54 6.11 11.47 81,15 1975 76,55 4.59 SUBSTATION BANG LANG
HAT YAI 1 6 2
NARATHIWAT
PHATTHALUNG
SADAO
SONG KHLA
YALA
PATTANI
SATUN TOTAL

CITE OFF A TOTAL						FORECAST	L.					GROWTH RATE
SUBSTRITUR	1986	1987	1988	1989	0661	1991	1992	1993	1994	1995		(%/YEAR)
BANG LANG	15.39	16.46	17.19	17.89	18.58	19.23	19.82	20.33	20.77	21.12		3.5
HAT YAI 1 & 2	280.70	235.22	254.92	276.01	299.04	323.53	349.49	376.81	405.62	435.91		3.5
NARATHIWAT	65.31	73.86	81.31	88.73	96.10	103.50	16.011	118.20	125.32	132.17		8.4
PHATTHALUNG	35.12	40.18	44.47	48.90	53.54	58.27	63.05	67.82	72.57	77.27		9.3
SADAO	28.55	32.22	35.80	39.60	43.68	47.88	52.05	56.15	60.12	63.90	٠.	9.3
SONG KHLA	61.75	117.76	132.81	145.56	158.53	172.13	186.27	200.82	215.76	230.98		15.8
YALA	147.09	68.63	75.66	82.80	90.39	98.24	106.27	114.40	122.59	130.76		(0.3)
PATTANI		101.39	113.16	147.59	182, 73	218.51	233.36	249.19	266.01	283.85		13.7
SATUN		37.29	41.23	45.39	79.80	54.32	58.89	63.39	67.76	71.91		9
TOTAL	633.90	723.00	796.54	892.47	992.40	1,095.60	1,180.10	1,267.11	1,356.50	1,447.87		9.6

	a Control House					-	ACTUAL						GROWTH RATE
ñ	SUBSTATION	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	(Z/YEAR)
CHIANC	CHIANG MAI 1, 2 & 3	18.11	22.36	26.30	31.24	33.14	35.20	36.06	40.45	47.13	53.34	61.18	i;
CHAIANG KAI	dG RAI	3.40	6.19	8.96	10.26	11.20	00.6	9.52	9.86	23.30	10.42	28.16	22.0
LANPHON	N 2						4.54	4.54	8.05	10.12	12.68	11.79	21.
LANPANG 1	IG 1 6 2	7.43	9.35	11.44	12.93	15.11	14.47	14.69	17.09	19.18	20.08	21.78	න
MAE HO	MAE HONG SON		-					.:**-					
MAE MHAO 2	IAO 2			0.03	0.07	0.05	0.05	90.0	0.25	0.61	0.76	0.84	74.4
PHAYAO	יארדואלי		5.13	7.92	9.90	10.26	14.26	15.40	8.91	10.48	12.62	14.24	0.0
THOEN MAE NGAT	1. T.	0 1 7	0.23	0.52	0.74	0.64	0.86	1.43	1.84	2.24	2.38	2.66	25
CHOMTONG	NG												
NEA		0.29	0.34	0.42	0.54	0.56	0.58	79.0	3.58	3.69	2.30	4.50	50.6
A 3-	TOTAL	29.37	43.61	55.60	65.64	70,96	78.96	95.04	107,68	126.62	140.07	155.41	14.5

						FORECAST						GROWTH RATE
SUBSIATION	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995		(Z/YEAR)
										i		
CHIANG MAI 1, 2 & 3	64.08	69.85	76.05	82.71	89.84	97.48	105.63	114.33	123.60	133.47	***	8.1
CHAIANG RAI	31.11	34.85	38.03	41.25	44.56	47.85	51.10	54.27	57.34	60.30		7.9
LANPHUN 1 & 2	21.60	17.99	19.31	23.44	29.26	37.53	45.31	51.71	56.27	60.21		10.6
LANPANG 1 & 2	23.00	25.28	26.98	28.66	30.39	32.10	33.80	35.44	37.03	38.56		9.5
FANG											a.gr#ind	
MAE HONG SON			-							•		
MAE MHAO 2	0.82	0.88	0.93	66.0	1.05	3.11	1.18	1.24	1.31	1.38		5.1
MAE SARING			•							· ·		
PHAYAO	15.72	17.74	19.60	21.48	23.41	25.33	27.22	29.07	30.86	32.58		8.6
THOEN	2.94	3.39	3.75	4.12	4.50	4.38	5.25	5.62	5.98	6,33		(7.8)
MAE NGAT				-						.		
CHONTONG		5.13	5.46	5.80	6.14	6,49	6.82	7.15	7.47	7.77		٠. د.
NEA	4.90	5.50	5.50	5.60	5.60	5.70	5.70	5.80	5.80	5.90		2.7
										+		
TOTAL	164.17	186.60	195.62	214.04	234.75	258.46	282.01	304.62	325.66	346.48		er &

PEAK DEMAND BY SUBSTATION (N2)

SITESTAN						ACTUAL						GROWTH RATE
NOTIFICACE	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	(%/YEAR)
BHUMTBOT	0.07	0.10	0.12	~	2	C	0.27	0.30	77 0	0.55	0.66	2
KAMPHAENG PHET		}					9.9	8.41	9.72	11.23	13.01	18.4
NAN PHARE	3,86	5.25	6.97	8.27	8.52	13.48	15.28	18.08	18,38	22.64	24.96	13.1
PHICHIT			70.7	4.93	7.20	8.94	10.62	13.32	15.18	16.72	19.12	16.4
PHITSANULOK 1	10.16	12.90	12.84	13.43	14.78	15.31	17.29	19.91	21.80	24.24	27.48	12.4
SIRIKIT				0.18	0.31	0.41	0.53	0.61	0.79	0.91	1.06	20.8
SUKHO THAI	4.10	5.35	7.80	9.72	11.01	13.77	16.15	10.28	11.19	12.41	13.94	0.2
IAK	1.89	2.26	2.79	3.07	3.48	5.19	5.96	6.42	8.01	9.19	10.14	14.3
UTTARADIT	3.86	4.79	5.82	6.51	7.10	7.91	8.93	10.42	12.55	15.02	16.57	15.9
PHITSANULOK 2									-		1.73	
				-								
TOTAL	23.94	30.64	40.37	46.23	52.61	65.18	81.64	87.74	98.05	112,91	128.67	9***

MOTH A GROUND						FORECAST					GROWTH RATE
SUBSTATION	1986	1987	1988	1989	1990	1661	1992	1993	1994	1995	(X/YEAR)
BHUMIBOL	0.74	0.88	1.04	1.21	1.40	1.60	1.83	2.07	2.33	2.61	14.8
KAMPHAENG PHET	13.37	14.92	16,39	17.88	19.43	20.98	22.53	24.06	25.56	27.02	7.6
NAN		11.11	12.15	13.31	14.54	15.83	17.15	18.50	19.86	21.25	4.8
PHARE	27.39	18.80	19.86	20.99	22.13	23,23	24.29	25.28	26.22	27.09	8.0
PHICHIT	19.46	21.59	23.40	25.19	27.00	28.76	30.46	32.08	33.61	35.04	6.2
PHITSANULOK 1	25.72	27.95	29.97	32.00	34.09	36.17	38.21	40.18	42.07	43.87	80.4
SIRIKIT	1.11	1.21	1.33	1.45	1.58	1.71	1.86	2.02	2.19	2.36	√1. 90
SUKBO THAI	14.05	15.66	17.05	18.45	19.87	21.30	22.72	24.10	25.45	26.76	6.7
TAK	10.57	11.56	12.39	13,19	14.00	14.80	15.59	16.36	17.09	17.80	5.8
UTTARADIT	17.13	18.65	20.07	21.55	23.11	24.72	26.35	28.00	29.65	31.31	9,0
PHITSANULOK 2	1.86	2.05	2.23	2.40	2.57	2.74	2.90	3.06	3.21	3.35	œ.
TOTAL	131.39	144.39	155.87	167.60	179.72	191.85	203.89	215.70	227.25	238.46	6.4
									-		

PEAK DEMAND BY SUBSTATION (N3)

TOTEL BOOKING						ACTUAL						GROWTH RATE
SUBSTATION	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	(Z/YEAR)
LOP BURI 1 & 2	9.80	13.87	14,85	15.63	16.98	16.27	18.89	19.26	21.60	23.62	26.22	10.0
MANOROM	4,17	5.36	6,45	6.58	9.72	9.78	10.85	12.86	14.20	16.34	17.60	12.5
NAKHON SAWAN	11.06	12.54	15.82	18.06	19.80	21.96	22.36	25.00	27.16	29.88	32.32	8.0
PHETCHA BUN			5.04	91.9	7.00	8.24	9.36	12.16	14.80	15.02	15.70	15.3
SING BURI	4.95	5.24	7.30	8.62	8.98	8.92	10.00	12.22	12.74	13,68	14.36	10.0
TAKHLI 2	3.13	3.30	3.52	3.77	5.04	5.96	4.06	4.54	5.50	5.46	5.43	(1.8)
CHAI BADAN	-,				·····			· ·			-	
TOTAL .	33.11	06.04	52.97	58.83	67.52	71.13	75.51	86.04	96.00	104.00	111.63	7.6

A CHE 4 SU CARD						FORECAST						GROWTH RATE
SUBSTRICTOR	1986	1987	1988	1989	1990	1961	1992	1993	1994	1995		(Z/YEAR)
			-								! !	
LOP BURI 1 & 2	28.90	31.13	29.02	30.48	31.99	33.50	34.98	36.43	37.85	39.24	,	7.5
MANOROM	18.34	21.14	22.55	23.96	25.41	26.85	28.25	29.60	30.91	32.16		6.2
NAKHON SAWAN	34.89	38.39	41.13	43.89	46.81	49.75	52.69	55.60	58.46	61.25		9.9
PHETCHA BUN	18.56	20.52	11.90	12.72	13.62	14.51	15.37	16.20	17.00	17.75		1.2
SING BURI	14.51	15.59	16.45	17.50	18.57	19.62	20.65	21.65	22.61	23.53		5.1
TAKHLI 2	5.78	6.16	6.48	6.79	7.12	7.45	77.7	8.08	8.37	8,66		8.4
LOMSAK		00.0	7.00	7.58	8.22	8.87	9.51	10.14	10.75	11.35		7.2
CHAI BADAN		0.00	7.19	7.79	8.45	9.11	9.77	10.42	11.06	11.68		7.2
TOTAL	120.98	132.93	141.69	150.72	160.20	169.65	178.99	188.12	197.00	205.60		70
			_		-							

PEAK DEMAND BY SUBSTATION (NEI)

(UNII: MM)

WOTH 4 HO BITO						ACTUAL						GROWTH RATE
SUBSTRITUN	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	(%/YEAR)
CHUM PHAE	1.31	3,74	5.46	6.84	7.80	9.04	10.44	96.6	10.68	12.48	13.44	
KHON KAEN 1 & 2	11.34	12,68	14.48	18.58	19.64	20.70	25.28	28.56	28.68	32.16	33.40	10.0
LOEI		u-						8.92	10.72	13.76	14.19	16.7
NAKON PHANOM	3.28	3.15	3.22	3.26	3.49	3.53	3.75	4.32	6.41	5.39	5.88	10.7
NAM PHONG			:			<u>agland</u>	3.05	7.95	11.89	12.37	13.18	44.2
NAM PHUNG	0.05	0.0	0.18	0.17	0.22	0.24	0.28	0.37	0.51	0.67	1.62	47.2
NONG KHAI	3.77	4.30	4.38	5.68	6.80	6.07	7.88	8.74	12.04	11.96	15.76	21.0
PHANG KHON		•	-					6.77	8.09	9.47	11.35	18.8
SAKON NAKHON	4.57	5.56	5.72	6.79	6.85	8.58	11.34	6.87	8.42	9.48	10.54	4.2
THAT PHANOM	0,92	1.35	1.41	2.22	2.13	1.74	2.32	2,45	2.72	3.78	4.02	18.2
UDON THANT 1 & 2	17.32	17.47	20.64	20.94	23.90	25.64	30.56	32.20	37.28	41.40	45.92	12.4
BUNG KAN		- v .										
CHULA BHORN P/S						0.03	0.05	0.05	0.00	0.06	0 07	18.3
NA KAE	0.18	0.22	0.23	0.42	0.48	0.63	0.63	0.79	1.06	1.05		10.7
TOTAL	42,74	48.33	55.71	64.91	71.30	76.19	95.57	117.95	138.55	154.03	169.37	17.3

WATER AND THE						FORECAST						GROWTH RATE
SUBSTRITON	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995		(%/YEAR)
											-	
CHUM PHAE	14,42	16.21	17.88	19.59	21.36	23.14	24.92	26.66	28.37	30.04	•	4.8
KHON KAEN I & 2	35.06	38.24	41.15	44.11	47.17	50.24	53.29	56.28	59.21	62.07		6.4
1301	13,67	15.03	16.32	17.69	19.15	20.67	22.24	23.84	25.48	27.14	******	6.7
NAKON PHANOM	6.56	7.14	7.66	8.20	8.76	9.32	9.88	10.43	10.97	11.48	d d	6.9
NAM PHONG	13.24	13.85	14.36	14.89	15.47	16.05	16.63	17.21	17.77	18.31	, et evizan	3.3
NAM PHUNG	0.82	96.0	1.11	1.27	1.43	1,61	1.79	1.98	2.18	2.38	-externis	3.0
NONG KHAI	15.18	13.88	14.71	15.51	16.32	17.11	17.89	18,63	19.33	20.01		2.4
PHANG KHON	10.92	10.88	11.92	12.89	13.80	14.60	15.28	15.82	16.22	16.49		3.8
SAKON NAKHON	11.03	11.98	12.84	13.71	14.61	15.50	16.37	17.22	18.04	18.83		0.9
THAT PHANOM	4.26	99.7	5.02	5.38	5.74	6.10	6.45	6.79	7.11	7.42		6.3
UDON THANI 1 & 2	46.91	50.77	54.20	57.62	61.08	64.44	67.64	70.62	73.35	75.79		5.1
BUNG KAN		4.36	4.93	5.54	6.18	6.87	7.58	8.31	9.05	. 18.6		10.7
CHULA BHORN P/S	0.07	80.0	0.08	0.09	0.09	01.0	0.10	0.11	0.12	0.12		6.7
NA KAE	'					•	P.	 				
TOTAL	172.13	188.02	202.19	216.48	231.17	245.74	260.06	273.88	287.20	299.89		9.2

PEAK DEMAND BY SUBSTATION (NE2)

(UNIT: MM)

TH 4 HO HILV						ACTUAL						GROWIN RAIE
SUBSTRITON	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	(%/YEAR)
CALASIN						eren eren			11.21	14.90	18.42	28.2
IAHA SARAKHAM	6.16	8.84	10.32	12.52	14.28	16.14	21.36	22.08	24.32	23.08	24.22	8.5
MUKDAHAN ROIET	0.89	96.0	1.06	1.39	1.96	2.60	2.94	3.75	4.60	4.92	5.43	15.8
IRINDHON	0.04	0.17	0.23	0.97	1.23	1.78	1.94	2.08	2.28	2.79	2.42	6.3
ISAKET							6.57	8.40	11.80	14.88	17.16	27.1
ONDET	0.45	0.71	0.97	1.30	1.69	2.61	4.59	5.40	5.37	5.39	5.80	17.3
BON RATCHATHANI 1	10.70	13.04	14.84	16.95	19.80	20.58	22.78	18.68	22.76	24.80	28,28	9.9
YASOTHON	2.17	2.99	3.84	4.83	5.60	7.48	9.64	11.39	15.70	16.90	19.16	20.7
TOTAL	20.41	26.71	31.26	37.97	44.55	51.19	69.82	71.78	98.04	107.46	120.88	18.7

1018 110 110						FORECAST					GROWTH RATE
SUBSIALTON	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	(%/YEAR)
KALASIN	18.37	16.08	17.55	19.15	20.81	22.47	24.14	25.78	27.40	28.97	9.4
MAHA SARAKHAM	24.46	18.04	19.61	21.86	23.88	25.96	28.26	30.65	33.11	35.65	9.0
MUKDAHAN	5.90	6.68	7.31	7.96	8.65	9.34	10.03	10.72	11.40	12.07	60
ROIET	16,78	19.05	20.94	22.86	24.86	26.86	28.85	30.82	32.74	34.61	4.8
SIRINDHON	2.16	2.29	2.41	2.55	2.69	2.84	2.99	3.15	3.31	3.48	3.7
SISAKET	17.20	19.16	20.99	22.83	24.72	26.60	28.78	30.95	33.10	35.22	7.5
SOMDET	7.03	7.90	8.81	9.76	10.74	11.76	12.82	13.92	15.04	16.20	10.8
UBON RAICHATHANI 1	29.57	31.96	34.15	36.40	38.76	41.14	43,55	45.93	48.29	19.05	0.9
YASOTHON	18.71	18.35	20.21	22.10	24.04	25.98	27.89	29.74	31,55	33.47	5.7
TOTAL	140.17	139.50	152.29	165.48	179.14	192.95	207.31	221.65	235.93	250.27	 7.5

PEAK DEMAND BY SUBSTATION (NE3)

(UNIT: MW)

GROWTH RATE (Z/YEAR) 15.4 19.7 9.9 6.4 5.4 14.5 1985 16.00 13.90 67.06 11.88 14.98 15.68 156.26 14.54 11.26 61.92 11.60 16.40 16.04 147.48 1984 126.97 11.64 10.23 53.78 10.20 14.10 14.70 1983 10.41 8.07 45.58 12.96 9.44 13.40 15.58 115.44 1982 95.01 15.62 6.77 46.30 13.94 12.38 1981 ACTUAL 79.23 41.84 12.75 11.00 1980 13.64 1979 39.07 12.06 10.34 12.80 74.27 1978 10,56 66.21 34.97 11.48 9.20 56.85 1977 30.35 10.64 7.22 8.64 1976 26.87 6.68 5.52 6.94 46.01 23.35 5.64 4.30 1975 38.87 CHAIYA PHUN NAKHON RATCHASIMA 1 & 2 PAK CHONG PHON SIKHIU SURIN SUBSTATION TOTAL BURI RAM

WATEL BOOTED						FORECAST					GROWTH RATE
SUBSTALLON	1986	1987	1988	1985	1990	1991	1992	1993	1994	1995	(Z/YEAR)
BURI RAM	17.29	19.35	21.30	23.29	25.35	27.43	29.51	31.56	33.57	35.54	 8.3
CHAIYA PHUM	14.35	15.71	16.91	18.12	19.36	20.60	21.82	23.02	24.19	25.33	6.2
NAKHON RATCHASIMA I & 2	67.64	73.19	77.69	82.20	86.87	91.46	95.96	100.25	104.35	108.15	6.7
PAK CHONG	12.48	13.60	14.59	15.56	16.52	17.41	18.26	19.09	19.90	20.69	 5.7
PHON	13.56	14.25	14.77	15.24	15.71	16.13	16.52	16.86	17.14	17.38	3.5
SIKHIU	15.07	16.02	16.85	17.67	18.52	19.34	20.12	20.84	21.50	22,14	2.5
SURIN	17.70	19.33	20.75	22.13	23.53	24.91	26.25	27.53	28.74	29.87	0.9
TOTAL	158.08	171.45	182.85	194.21	205.85	217.27	228.43	239.14	249.40	259.10	5.2

PEAK DEMAND BY SUBSTATION (C1)

WOTH A GOODING						ACTUAL						GROWTH RATE
NOT THE COOR	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	(%/YEAR)
											L.	
ANG THONG 1	3.21	00.9	8.46	9.72	10.86	11.76	10.78	11.00	11.88	6.40	4.41	(17.8)
ANG THONG 2							- N	1.87	14.07	12.06	11.94	85.5
AYUTTHATA 1	5.80	8.15	9.10	10.01	11.27	10.90	10.08	12.44	16.80	18.10	21.30	14.3
BAN HAI									38.44	41.58	128.87	49.7
BANG PA IN	5.36	6.56	9.22	9.83	10.16	11.23	11.54	12.06	14.28	16.52	17.50	9.3
PRACHIN BURI	69 7	5.66	7.84	10.58	10.68	15.62	16.38	18.62	20.16	25.72	26.84	11.4
SARABURI 1	9.56	12.45	14.66	14.78	14.32	13.20	14.46	16.86	17.48	18.54	19.46	
SARABURI 2	12.21	12.81	14.93	14.54	13.97	16.40	39.43	41.88	50.72	51.68	55.24	27.5
SARABURI 3	17.08	20.50	22.80	23.28	21.96	20.88	22.72	23.88	22.32	22.20	21.72	9.0
SARABURI 4				4.78	6.58	8.48	12,18	15.93	15.88	16.35	16.93	14.8
THALAN	1.24	1.55	2.34	3.05	3.28	5.74	16.43	15.56	14.02	15.84	15.84	22.5
WATTHANA NAKHON												
MEA	21.28	19.22	17.78	21.96	23.22	30.52	35.16	41.60	35.90	14.20	00.9	(27.8)
TOTAL	80.43	92.90	107.13	122.54	126.30	144.72	189.16	211.71	271.95	259.19	346.05	19.0

GROWTH RATE	(Z/YEAR)	5.5	6.7	7.3	6.5	2.5	2.8	5.2	9.9	13.7	5.9	6.5	7.0	6.9
	1995	7.51	22.82	43.13	242.54	28.73	35.34	32.25	104.43	78.09	29.98	29.64	18.61	673.07
	1994	7.15	21.84	40.89	228.37	27.48	34.24	31.16	103.55	78.09	28:56	28.24	17.65	647,21
	1993	6.83	20.77	38.59	215.19	26.23	33.08	30.03	102.73	78.09	27.12	26.84	16.65	622.12
	1992	6,49	19.64	36.25	202.94	24.99	31.87	28.86	101.95	78.09	25.67	25.44	15.61	597.81
FORECAST	1991	6.18	18.47	33.90	191.57	23.76	30.61	27.65	101.24	78.09	24.22	24.05	14.55	574.29
	1990	5.89	17.27	31.57	180.66	22.55	29.48	26.43	100.58	78.09	22.77	22.69	13.56	551.53
	1989	5.61	16.05	29.29	170.27	21.38	28.32	25.19	66.66	78.09	21.35	21.35	12.55	529.43
	1988	5.34	14.88	27.13	160.44	20.26	27.18	24.00	99.45	78.09	20.00	20.09	11.56	508.41
	1987	5.08	13.72	25.05	151.23	19.18	34.90	22.82	58.97	51.09	18.68	18.87		419.58
	1986	4.84	12.47	22.85	138.54	17.97	30.48	21.42	58.53	20.00	15.79	17.53	:	360.42
MARK BY CITY	NOTIVICANO	ANG THONG 1	ANG THONG 2	AYUTTHATA 1	BAN MAI	BANG PA IN	PRACHIN BURI	SARABURI 1	SARABURI 2	SARABURI 3	SARABURI 4	THALAN	WATTHANA NAKHON MEA	TOTAL

PEAK DEMAND BY SUBSTATION (C2)

Substantow						ACTUAL						GROWTH RATE
SUBSTALION	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	(%/YEAR)
AO PHAI										68.0	1.29	
BAN BUNG							6.98	11.22	11.22	11.16	12.26	15.1
BANG LAMUNG	9.13	11.65	12.41	15.20	15.52	18.28	20.44	25.60	28.16	31.92	35.56	14.2
CHON BURI	17.46	21.26	27.03	28.57	33.68	31.56	33.96	29.44	34.68	39.16	42.92	6.3
CHACHOENG SAO	7.47	8.43	9.74	10.73	13.50	14.82	16.24	19.54	23.08	23.46	28.40	13.9
CHANTHABURI				11.80	13.46	17.84	20.74	23.16	25.76	28.12	32.18	15.4
KLAENG												
RAYONG 1	7.68	10.43	13.12	17.18	14.36	16.24	17.42	17.88	28.36	34.52	33.60	15.7
RAYONG 2										4.14	7.34	
RAYONG 3										3.72	6.70	
SRIRACHA	6.39	6.77	8.17	8.93	60.6	98.6	11.04	11.58	13.80	15.32	15.58	9.6
TRAT	2.70	2.94	4.97	3,53	3.49	3.76	4.53	4 77	4.31	7.66		4.4
SATTAHIP 2					,			. •				
	, ,	,			0.00	(0.00		0.00	1110	9
IOIAL	20.00	07.70	73.43	33.34	01.501	177.30	+ n - 1 n - 1	77. T	10.501	20.70	213.03	7
	_											

. Contract to contract						FORECAST						GROWTH RATE
SUBSIGITON	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995		(%/YEAR)
							-					
AO PHAI	1.30	3.23	6.46	9.70	9.70	9.70	9.70	9.70	9.70	9.70		22.4
BAN BUNG	12.12	13.26	14.32	15.44	16.62	17.85	11.61	20.40	21.70	23.01		6.5
BANG LAMUNG	37.50	41.20	43.67	46.10	48.57	50.97	53.30	55.50	57.58	59.54		. s. s.
CHON BURI	39.20	43.38	47.20	51.16	55.32	59.55	63.84	68.11	72.34	76.51		0.9
CHACHOENG SAO	29.86	32.53	34.98	37.52	40.19	42.89	45.62	48.32	50.98	53.58		6.6
CHANTHABURI	34.44	27,73	30.14	32.50	34.95	37.41	39.83	42.19	44.45	09.97	٠.	3.8
KLAENG	7.13	7,86	8.57	9.32	10.12	10.96	11.83	12.73	13.65	14.60		e. 8
RAYONG 1	42.39	45.63	49.38	53.36	57.65	62.27	67.22	72.54	78.25	84.35		9.6
RAYONG 2	7.48	8.63	9.77	10.95	12,19	13.42	14.63	15.78	16.84	17.77	-	9.2
RAYONG 3	7.00	7.00	14.60	89.60	92.40	99.50	99.50	99.50	99.50	99.50		31.0
SRIRACHA	16.86	18.19	19.37	20,59	21.89	23.21	24.56	25.92	27.30	28.68		6.3
TRAT		10.53	11.53	12.51	13.50	14.45	15.37	16.25	17.08	17.83		8.9
SATTAHIP 2												
TOTAL	235.68	259.15	289.99	388.75	413.10	442.18	464.51	486.92	509.36	531.67		7.6
												,

PEAK DEMAND BY SUBSTATION (C3)

1000000						ACTUAL						GROWTH RATE
SUBSTRITON	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	(%/YEAR)
BAN PONG 1	11.79	12.74	21.00	21.79	21.80	23.62	21.24	22.80	30.40	34.92	39.92	13.0
BAN PONG 2	21.92	24.46	22.56	24.00	27.00	32,05	30.70	28.85	36.70	37.80	38.85	6.6
KANCHANA BURI	6.63	6.63	7.34	10.38	10.29	9.20	10.98	11.48	16.12	13.66	14.50	5.6
KAMPHAENG SAEN											~~~	
NAKHON CHAISI	18.67	20.61	26.27	26.88	32.97	38.58	38.61	42.42	41.13	41.46	42.72	2.1
SAM PERAN 1	13.69	18.70	18.73	20.20	25.48	30.68	32.72	37.68	43.04	43.68	51.72	11.0
SAMUTSAKHON 1 & 2	22.19	26.51	30.14	32.92	39.24	39.40	37.01	38.04	40.80	43.36	46.13	3.2
SUPHAN BURI	4.39	5.47	6.05	6.53	9.63	10.21	11.01	13.70	17.20	20,38	21.42	16.0
THAMUANG		5,33	7.51	12.37	6.33	7.80	7.95	7.66	11.34	10.60	10.60	6.3
SRINAGARIND				0.04	0.08	0.08	0.10	0.13	0.14	0.27	0.27	29.2
KHAO LAEM		-						0.0	0.14	0.24	1.67	1
TOTAL	99.28	120.45	139.60	155.12	172.82	189.62	190.31	202.84	237.00	246.37	267.80	7.1
										~	1	

						FORECAST				-	GROWTH RATE
SUBSIALLON	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	(%/YEAR)
							-				
BAN PONG 1	48.61	36.94	39.70	42.44	45.22	47.94	50.57	53.10	55.50	57.77	3.8
BAN PONG 2	39.79	42.59	45.06	47.60	50.31	53.07	55.85	58.63	61.40	64.13	5.1
KANCHANA BURI	25.62	28.40	30.64	32.93	35.31	37.70	90.04	42.35	44.56	46.65	7.9
KAMPHAENG SAEN	14.83	16.47	17.98	19.51	21.06	22.63	24.19	25.75	27.28	28.79	7.7
NAKHON CHAISI											
SAM PHRAN 1	101.19	110.70	119.76	129.38	139.79	150.72	162.17	174.03	186.33	199.05	7.7
SAMUTSAKHON 1 & 2	45.31	49.19	52.82	56.59	60.64	64.85	69.21	73.67	78.23	82.87	0.9
SUPHAN BURI	24.03	27.00	29.72	32.33	34.93	37.40	39.84	42.20	44.46	46.59	8.3
THAMUANG											
SRINAGARIND	0.29	0.33	0.37	0.42	0.46	0.51	0.56	0.61	99.0	0.71	10.1
KHAO LAEM	2.49	2.68	2.70	2.72	2.75	2.77	2.80	2.82	2.85	2.88	2.6
76-77-077	303 17	21, 20	328 75	363 02	300 7.5	617.58	26 577	473 15	501.26	529.42	7
TOTOT	707.1	2	2	7	2					3 3	

PEAK DEMAND BY SUBSTATION (S1)

CHRCTARION						ACTUAL						GROWTH RATE
SUBSTRITON	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	(%/YEAR)
A A S	77	70	77 00	71 01	5	, c		1	0,	97 91	2000	u
Cub arr	11.1	17.70	00.11	10.10	76.61	67.CI		07 /1	77.01	17.40	10.07	2
CHUM PHON							8.86	10.60	12.14	13.82	15:30	14.6
PHETCHABURI	5.99	7.36	8.43	9.30	9.24	9.32	9.28	10.28	13.34	12.56	13.90	ന്
PRACHOAPKHIRI KHAN							4 97	5.89	6,45	7.61	8.29	13.6
PRAN BURI				7.41	8.37	10.79	12.69	8,48	8.31	9.29	9.45	(2.6)
RANONG	4.40	5.80	7.60	8.80	9.30	9.20	10.06	9.74	87.6	10.81	10.88	3.4
RATCHABURI 1	16.42	17.48	19.91	15.10	16.08	15,12	13.38	16.42	12.28	13.14	10,16	(9.7)
RATCHABURI 2										2.00	5.64	
SAMUTSONGKHRAM			5.47	6.28	7.02	6.93	7.88	11.92	12.90	17.54	17.42	20.2
TOTAL	41,25	76.60	58.96	65.04	65.93	66.60	82.72	90.61	93.30	109.17	111.08	10.8
						1						

MOTO A BOOKS						FORECAST						GROWTH RATE
SUBSIALION	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995		(Z/YEAR)
					:							
CHA AM	22.14	23.89	35.56	37.33	39.19	41.16	43.22	45.39	47.67	50.05		9.6
CHUM PHON	15.76	17.51	19.07	20.70	22.43	24.19	25.98	27.78	29.60	31.40	نسائد ما	7.5
PHETCHABURI	14.88	16.23	17.47	18.75	20.10	21.49	22.91	24.35	25.82	27.29	/ /	7.0
PRACHOAPKHIRI KHAN	9.37	10.54	11.59	12.67	13.76	14.87	15.98	17.06	18.11	19.10		8.7
PRAN BURI	10.06	11.28	12.11	13.10	14.12	15.23	16.37	17.55	18.74	19.92		7.7
RANONG	11.38	12.13	12.78	13.42	14.03	14.62	15.19	15.72	16.23	16.70		7-7
RATCHABURI 1	10.84	12.12	13.27	14.42	15.57	16.73	17.88	19.00	20.08	21.11		7.6
RATCHABURI 2	5.61	6.29	7.01	7.73	8.50	9.28	10.06	10.82	11.54	12.22		8.0
SAMUTSONGKHRAM	16.04	17.81	19.52	21.30	23.19	25.13	27.10	29.08	31.04	32.98	- vaintei	9.9
TOTAL	116.08	127.81	148.38	159.40	170.89	182.69	194.68	206.75	218.82	230.77		7.6

PEAK DEMAND BY SUBSTATION (S2)

NO PER A STORY						ACTUAL						GROWTH RATE
SUBSTAILUR	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	(X/YEAR)
				.,						((
CHIEW LAN	-									20.0	0.7	
KRABI	0.76	96.0	1.09	1.29	1.78	2.31	2.64	2.77	3.43	4.36	4.75	15.5
KHANOM								0.79	1.39	2.77	3.24	
LAMPOORA	5.73	6.54	6.82	8.86	9.98	10.70	11.55	12.35	14,54	15.22	16.94	9.6
NAKHON SI THAMMARAT	4.88	6.18	7.71	8.94	10.43	11.39	13.38	16.20	17.32	19.24	22.68	14.8
PHANGNGA	2.26	1.97	2.21	1.89	2.28	2.67	3.09	3.29	3.40	3.63	3.92	0.8
PHUKET 1 & 2	11.97	13.34	14.13	16.33	18.12	18.48	19.83	18.78	20.35	20.30	23.23	4.7
PHUNHIN	4.70	7.35	9.44	11.00	12.96	15.21	17.53	18.01	21.22	22.34	24.20	7.6
TAKUA PA	1.70	1.52	1.68	16.1	2.18	2.24	2,21	2.74	3.37	3.33	4.39	14.4
THUNG SONG	3.41	4.13	5.27	5.41	6.14	6.73	6.92	7.68	8.33	10.08	10.60	9.5
A 1 000 C 000				1	00	ì						i c
IOTAL	33.41	41.49	44.30	29.00	03.00	97.74	(1.1)	10.70	40.04	,,,,,,,	114.00	10.0
	_	_			_							_

200 200 000 0000						FORECAST					GROWTH RATE
SUBSTALTON	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	(%/YEAR)
CHIEW LAN	0,73	0.86	0.95	1.04	1.13	1.22	1.32	1.42	1.52	1.62	8.6
KRABI	5,13	5.70	6.24	6.81	7.41	8.03	8.67	9.31	9.95	10.58	8.3
KHANOM	3.87	5.18	5.66	6.18	6.74	7.32	7.94	8.58	9.25	9.64	11.9
LAMPOORA	17.86	18.23	19.69	21.16	22.66	24.13	25.55	26.89	28.13	29.26	5.6
NAKHON SI THAMMARAT	27.03	27.38	29.69	32.06	34.54	37.03	39.54	42.02	44.48	46.91	7.5
PHANGNGA	4.18	4.64	5.04	5.44	5.86	6.28	6.71	7.13	7.54	7.94	7.3
PHUKET 1 & 2	23.67	25.64	27.25	28.40	29.62	30.84	32.04	33.22	34.37	35.48	4.3
PHUNPHIN	25.01	27.60	29.84	32,14	34.55	36.98	39.42	41.84	44.23	46.57	6.8
TAKUA PA	4.45	4.95	5.39	5.82	6.29	6.75	7.22	7.68	8.15	8.62	7.0
THUNG SONG	11.04	12.19	13.23	14.31	15.44	16.60	17.76	18.92	20.05	21.18	7.2
TOTAL	122 96	130 3%	34.7.08	153.36	164.99	175 18	186 16	197.00	207.67	218.09	9
TOTOT	2	*****	2	2	}) .					

PEAK DEMAND BY SUBSTATION (S3)

CITECTATION						ACTUAL						GROWTH RATE
NOTIFICAC	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	(Z/YEAR)
BANG LANG							2.08	2.64	2.98	3.35	3.47	9
HAT YAI 1 & 2	16.61	19.27	22.84	27.34	33.51	36.68	39.60	43.77	49.60	53.92	57.32	o,
NARATHIWAT									11.34	13.04	14.98	6 71
PHATTHALUNG	1.45	.1.95	2.41	2.77	3.27	3.93	4.40	5.41	6.65	8.06	8.50	16.7
SADAO							2.52	4.15	4.16	5.29	5.83	23.3
SONG KHLA												
YALA		8.80	12.00	16.31	20.25	23.07	29.31	34.25	34.28	27.66	30.12	ئي.
PATTANI												
SATIIN												
				1			. •					
TOTAL	18.06	30.02	37.25	46.43	57.02	63.67	16.77	90.23	10.601	111.32	120.22	13.6

TO SEE THE CASE						FORECAST					GROWTH RATE
SUBSIGITOR	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	(%/YEAR)
		-									
BANG LANG	3.58	3.82	3.97	4.12	4.26	4.39	4.51	4.60	4.68	4.75	3.2
HAT YAL 1 & 2	64.59	42.96	46.19	49.62	53.34	57.26	61.38	65.67	70.16	74.83	2.7
NARATHIWAT	15.86	17.71	19.26	20.76	22.21	23.63	25.02	26.35	27.62	28.79	 8.9
PHATTHALUNG	9.13	10.31	11.28	12.27	13.29	14.30	15.31	16.30	17.26	18.19	7.9
SADAO	6.39	7,14	7.86	8.61	9.41	10.22	11.00	11.76	12.48	13.14	80
SONG KHLA	21.58	23.79	26.82	28.98	31.29	33.68	36.14	38.63	41.16	43.69	 8.2
XALA	33.00	15.45	16.82	18.14	19.54	20.96	22.38	23.79	25.17	26.51	(1.3)
PATTANI		22.26	24.60	32.07	39,65	47.31	50.12	53.08	56.20	59.47	13.1
SATUN		7.96	8.72	9.51	10.34	11.17	12.00	12.81	13.57	14.28	7.6
TOTAL	154.13	151.39	165.51	184.07	203.31	222.92	237.86	252.99	268.29	283.65	0.6

SUBSTATION EXPANSION PLAN OF REGION NI

1986 1987 1988 1989 1990 1991	1988 1989 1990 1991	1988 1989 1990 1991	1989 1990 1991	1990 1991	1991		1992	2	1994	1995	1996	1997	1998	1999	2000
1 x 13.3 1 x 13.3 1 x 13.3 1 x 13.3 1	13.3 l x 13.3 l x 13.3	x 13.3 1 x 13.3	x 13.3		× 50.0	1 × 50.0	1 × 50 0	1 × 50.0	1 × 50.0	1 × 50.0	1 x 50.0	1 x 50.0	1 x 50.0	1 x 50.0	1 x 50.0
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1 x 50.0 1 x 50.0 1 x 50.0 1 x 50.0 1	50.0 1 x 50.0 1 x 50.0 1	x 50.0 1 x 50.0 1	1 × 50.0 1		x 50.0	1 × 50.0	1 × 50.0	1 × 50.0	1 × 50.0	1 × 50.0	1 × 50.0	1 × 50.0	1 x 50.0	1 × 50.0	1 × 50.0
2 x 25.0 2 x 25.0 2 x 50.0 2 x 50.0 2	25.0 2 x 50.0 2 x 50.0 2	\times 50.0 2 \times 50.0 2	x 50.0 2		x 50.0	2 × 50.0	2 × 50.0	2 × 50.0	2 × 50.0	2 × 50.0	2 × 50.0	2 × 50.0	2 x 50.0	2 x 50.0	2 x 50.0
1 x 6.5 1 x 50.0 1 x 50.0 1 x 50.0 1 x 1 x 25.0	50.0 1 x 50.0 1 x 50.0 1 25.0 1 x 25.0 1	x 50.0 1 x 50.0 1 x 25.0 1 x 25.0 1	1 x 50.0 1 1 x 25.0 1		x 50.0 x 25.0	1 × 50.0 1 × 25.0	1 x 50.0 1 x 25.0	1 x 50.0 1 x 25.0	1 x 50.0 1 x 25.0	1 x 50.0 1 x 25.0	1 × 50.0 1 × 25.0	1 x 50.0 1 x 25.0	1 x 50.0 1 x 25.0	1 × 50.0 1 × 25.0	1 x 50.0 1 x 25.0
$1 \times 13.3 \ 1 \times 25.0 \ 1 \times 25.0 \ 1 \times 25.0 \ 1$	25.0 $1 \times 25.0 1 \times 25.0$	x 25.0 1 x 25.0	1 x 25.0		x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 × 25.0	1 x 25.0	1 x 25.0
3 x 6.5 3 x 6.5 3 x 6.5 3 x 6.5 3 1 x 5.0 1 x	6.5 3 x 6.5 3 x 6.5 3 5.0 1 x 5.0 1 x 5.0 1	x 6.5 3 x 6.5 3 x 5.0 1 x 5.0 1	3 x 6.5 3 1 x 5.0 1		x 6.5 x 5.0	3 x 6.5 1 x 5.0	3 × 6.5 1 × 5.0	3 x 6.5 1 x 5.0	3 x 6.5 1 x 5.0	3 x 6.5 1 x 5.0	3 x 6.5 1 x 25.0	3 x 6.5 1 x 25.0	3 x 6.5 1 x 25.0	3 x 6.5 1 x 25.0	3 x 6.5 1 x 25.0
1 x 25.0 1 x 25.0 1 x 25.0 1 x 25.0 1	25.0 l x 25.0 l x 25.0	x 25.0 1 x 25.0	× 25.0		× 25.0	1 x 25.0	1 x 25.0	1 × 25.0	1 x 25.0	1 x 25.0	1 × 25.0	1 x 25.0	1 x 25.0	1 × 25.0	1 × 25.0
1 x 4.0 2 x 2.0 2 x 2.	4.0 1 x 4.0 1 x 4.0 2.0 2 x 2.0 2 x 2.0	x 4.0 1 x 4.0 x 2.0 x	1 x 4.0 2 x 2.0	7	x 4.0 x 2.0	1 x 4.0 2 x 2.0	1 x 4.0 2 x 2.0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1×4.0 2×2.0	1 x 4.0 2 x 2.0	1×4.0 2×2.0	1 x 4.0 2 x 2.0	1 x 4.0 2 x 2.0	1 x 4.0 2 x 2.0	1 x 4.0 2 x 2.0
2 x 1.0 2 x 1.0 2 x 1.0 2 x 1.0 2	1.0 2 x 1.0 2 x 1.0	x 1.0 2 x 1.0	x 1.0	~	x 1.0	2 x 1.0	2 x 1.0	2 x 1.0	2 x 1.0	2 x 1.0	2 × 1.0	2 x 1.0	2 x 1.0	2 x 1.0	2 x 1.0
1 x 4.0 1 x 4.0 1 x 4.0 1 x 4.0 1	4.0 1 x 4.0 1 x 4.0	x 4.0 1 x 4.0	0.4 ×	7	0.4 ×	1 x 4.0	1 x 4.0	1 × 4.0	1 x 4.0	1 × 4.0	1 × 4.0	1 x 4.0	1 × 4.0	1 × 4.0	1 x 4.0
1 x 2.0 1 x 2 x 0.8 2	2.0 1 x 2.0 1 x 2.0 1 0.8 2 x 0.8 2 x 0.8 2	x 2.0 1 x 2.0 1 x 0.8 2 x 0.8 2	$1 \times 2.0 1$ $2 \times 0.8 2$		2.0	1 x 2.0 2 x 0.8	1 x 2.0 2 x 0.8	1 x 2.0 2 x 0.8	1×2.0 2×0.8	1×2.0 2×0.8	1 x 2.0 2 x 0.8	1 x 2.0 2 x 0.8	1 x 2.0 2 x 0.8	1 x 2.0 2 x 0.8	1 x 2.0 2 x 0.8
1 x 25.0 1 x 25.0 1 x 25.0 1 x 25.0 1 1 x 16.7 1	25.0 1 x 25.0 1 x 25.0 1 life.7 1 x 16.7 1	x 25.0 1 x 25.0 1 x 16.7 1 x 16.7 1	1 x 25.0 1 1 x 16.7 1		x 25.0 x 16.7	1 x 25.0 1 x 16.7	1 x 25.0 1 x 16.7	1 x 25.0 1 x 16.7	1 × 25.0 1 × 50.0	1 x 25.0 1 x 50.0	1 × 25.0 1 × 50.0	1×25.0 1×50.0	1 x 25.0 1 x 50.0	1 x 25.0 i x 50.0	1×25.0 1×50.0
2 x 2.5 2 x 2.5 2 x 12.5 2 x 12.5 2	2.5 2 × 12.5 2 × 12.5	x 12.5 2 x 12.5	× 12.5	2	x 12.5	2 × 12.5	2 × 12.5	2 × 12.5	2 x 12.5	2 × 12.5	2 x 12.5	2 × 12.5	2 x 12.5	2 × 12.5	2 x 12.5
2 x 5.0 2 x 5.0 2 x 5.0 2	5.02 x 5.02 x 5.0	x 5.0 2 x 5.0	2 x 5 0	2	0.2 ×	2 x 5.0	2 x 5.0	2 x 5.0	2×5.0	2 x 5.0	2 x 5.0	2 x 5.0	2 x 5.0	2×5.0	2 x 5.0
1 x 25.0 1 x 25.0 1 x 25.0 1	25.0 1 x 25.0 1 x 25.0 1	x 25.0 1 x 25.0 1	1 x 25.0 1		x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1×25.0	1 x 25.0	1 x 25.0
310.8 422.0 492.0 492.0	492.0 492.0	492.0	-	_	618.8	618.8	618.8	618.8	652.1	652.1	672.1	672.1	672.1	672.1	672.1
14 16 16 16	16		16	· I	16	16	16	91	16	91	16	16	16	16	16
22 24 24 24	24		24	l i	25	25	25	25	25	25	25	25	25	25	25
30 33 33 33	33		33		32	32	32	32	32	32	32	32	32	32	32
														1	

SUBSTATION EXPANSION PLAN OF REGION NZ

MVA)

(UNIT:

40.0 12.5 25.0 25.0 12.5 50.0 25.0 25.0 25.0 40.0 25.0 2.5 1 x 25.0 1 x 25.0 1 x 25.0 2 x 25.0 25.0 2 x 25.0 532.5 2 21 73 x 40.0 1 x 25.0 1 x H ×× ×× 74 И × × 2 x 25.0 2 12.5 50.0 25.0 25.0 1 x 25.0 1 x 25.0 1 x 12.5 1 x 12.5 x 25.0 532.5 13 2 7. × × 2 x 25.0 2 x 25.0 2 x × × 50.0 1 x ď 25.0 1 25.0 40.0 25.0 40.0 2.5 2 x 25.0 2 x 25.0 1 x 12.5 1 x 12.5 532.5 2 21 21 7 × × x 25.0 1 x × ×× ×× 40.0 1 3 x 50.0 1 x 25.0 1 25.0 25.0 1 x 25.0 1 x 12.5 40.0 2.5 1 x 25.0 532. 13 7 21 × × * * × × Х 25.0 5.0 25.0 25.0 50.0 1 x 50.0 1 x 50.0 25.0 1 x 25.0 1×25.0 $2 \times 25.0 \times 25.0 \times 25.0$ 2.5 40.0 40.0 1 × 40.0 25.0 1 × 25.0 2×25.0 525.0 E 21 23 × × 2.5 1 x 1 x 25.0 1 x 1 x 12.5 1 x × × × _ ~ 1×25.0 40.0 5.0 25.0 25.0×25.0 $x 25.0 2 \times 25.0$ 525.0 2 21 21 x 40.0 1 x 4 x 25.0 1 x 2 × 40.0 1 × 25.0 1 × 3 × N 5.0 25.0 25.0 25.0 2.5 525.0 13 21 21 * × 1 x 25.0 1 x 25.0 1 x 1 x 12.5 1 x 25.0 1 x ×× × ×× 50.0 1 25.0 1 40.0 x 25.0 40.0 5.0 25.0 x 25.0 2.5 x 25.0 2 x 25.0 1 x 12.5 487.5 20 20 eri eri × × × ×× ×× × 1 x 40.0 1 x 1 x 25.0 1 x 25.0 1 x 25.0 2 1 x 40.0 25.0 5.0 25.0 4.0 1 x 25.0 1 x 12.5 x 25.0 2.5 487.5 <u>~</u> 20 20 × × × ×× × Ŕ ~ × 25.0 × × 12.5 1 25.0 25.0 25.0 1 x 12,5 | 1 x 12.5 | 1 x 12.5 2.5 40.0 25.0 40.0 1 x 40.0 25.0 1 x 25.0 5.0 2 x 25.0 487.5 13 20 20 × × × × 40.0 1 x 25.0 1 x × $2 \times 25.0 2 \times$ × 1 x 25.0 1 x 12.5 5.0 25.0 50.0 1 x 25.0 2.5 462.5 7 5 19 * * ×× × × × ×× 25.0 2 3 x 25.0 x 50.0 40.0 5.0 2.5 12.5 2 x 25.0 397.5 1 18 Ξ. ×× × × × ×× × x 25.0 1 x 12.5 1 N × 50.0 × 25.0 2.5 40.0 5.0 25.0 2 x 25.0 1 x 12.5 1 x 12.5 12.5 397.5 11 17 8 × * * × × × 1 x 25.0 1 3 x 25.0 1 3 x 12.5 1 3 Ń 2.5 5.0 1 ~ 25.0 12.5 25.0 1 x 25.0 2 x 25.0 322.5 5 16 = × × 2.5 1 x 25.0 1 x 25.0 2 N x 12.5 25.0 25.0 5.0 x 12.5 1 x 12.5 236.5 7 Ξ. × 7 × × × × × × ď SUBSTATION NAME TRANSFORMERS SUBSTATIONS PHET SAWAN KHALOK 6. PHITSANULOK PHITSANULOK THAI CAPACITY (MVA) 11. UTTARADIT KAMPHAENG BANKS 1. BHUMIBOL SOT PHICHIT SUKHO 4. PHARE MAE 10. TAK MAN OF. OE. OF NO. 0 13. ď 'n 4 œ.

SUBSTATION EXPANSION PLAN OF REGION N3

UNIT: MVA)

25.0 1 x 12.5 | 1 x 12.5 | 1 x 25.0 | 2 x 40.0 | 1 x 25.0 1×25.0 1 x 25.0 1 x 1 x 6.25 1 x 25.0 1 x 1×25.0 1 x 25.0 $1 \times 25.0 \times 25.$ x 25.0 2×40.0 x 25.0 460.00 91 36 77 × 25.0 1 x 25.0 1 x 25.0 25.0 1 x 25.0 3 x 25.0 x 40.0 2 x 40.0 1 x 25.0 1 x 25.0 460.00 12 16 9 25.0 1 x 3 x 25.0 3 x 25.0 3 x 25.0 3 x 25.0 1 x 25.0 1 x 25.0 460.00 1998 7 91 91 × × $1 \times 25.0 | 1 \times 25.0$ 1 x 25.0 1 $1 \times 25.0 \times 25.$ 25.0 1 × 25.0 1 × 25.0 1×25.0 460.00 12 16 16 25.0 1 x 25.0 460.00 12 9 16 460.00 1995 12 16 16 1 x 25.0 1 x 25.0 1 x $1 \times 25.0 | 1 \times 25.0$ 460.00 1994 12 16 16 1 x 25.0 1 x 25.0 3 x 25.0 3 x 25.0 3 x 25.0 2 x 6.25 2 x 6.25 460.00 1993 12 91 79 25.0 1 x 25.0 1 x 25.0 460.00 1992 17 91 91 1991 417.50 12 16 16 380.00 1990 12 15 9 1 x 12.5 1 y 1 x 25.0 1 y x 25.0 1 x 25.0 355.00 1989 Ξ 7 15 x 12.5 x 25.0 1 x 25.0 x 25.0 1 x 25.0 1 x 25.0 x 6.25 x 6.25 2 x 6.25 2 x 6.25 2 x 6.25 305.00 6 33 12 2 x 40.0 2 x 40.0 2 x 12.5 x 25.0 x 25.0 1 x 25.0 1×25.0 1 x 25.0 L x 25.0 305.00 1987 ٥, 12 2 --x 12.5 1 x 25.0 223.75 1986 σ 딛 N SUBSTATION NAME OF TRANSFORMERS NO. OF SUBSTATIONS 4. NAKHON SAWAN 12. BANG MUN NAK CHAI BADAN CAPACITY (MVA) 6. SING BURI 5. PHECHABUN BURI 7. TAKHLI 2 NO. OF BANKS 1. LOP BURI 11. SALOKBAT 10. THATAKO 3. MANOROM 8. LOMSAK LOP NO.

ANNEX 5-1-4

SUBSTATION EXPANSION PLAN OF REGION NEI

Š	SUBSTATION NAME	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
-i	СКОМ РНАЕ	3 x 6.25	3 x 6.25	3 x 6.25 1 x 13.3	3 x 6.25	3 x 6.25 1 x 13.3	3 x 6.25 1 x 13.3	3 x 6.25 1 x 13.3	3 x 6.25	3 x 6.25 1 x 13.3	2 x 6.25 2 1 x 13.3 1 x 25.0	2 x 6.25 2 1 x 13.3 1 x 25.0 1	x 6.25 x 13.3 x 25.0	2 x 6.25 2 1 x 13.3 1 x 25.0	2 x 6.25 2 1 x 13.3 1 1 x 25.0 1	x 6.25 x 13.3 x 25.0
2.	KHON KHAEN 1	2 × 25.0	2 x 25.0	2 x 25.0	2 x 25.0	2 x 25.0	2 x 25.0	2 × 25.0	2 x 25.0	2 x 25.0	2 x 25.0 2	2 × 25.0 2	x 25.0	2 × 25.0	2 x 25.0 2	x 25.0
m	LOEI	1 × 25.0	1 × 25.0	1 × 25.0	2 x 25.0	2 × 25.0	2 × 25.0	2 × 25.0	2 × 25.0	2 × 25.0	2 x 25.0	1 × 25.0 1 1 × 50.0 1	x 25.0 x 50.0	1 × 25.0 1 × 50.0	1 x 25.0 1 x 50.0 1	x 25.0 x 50.0
3	. NAKHON PHANOM	1 x 12.5	1 x 12.5	1 x 12.5	1 x 12.5	1 x 12.5	1 x 12.5	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0 1	x 25.0
N,	. NAM PHONG	1 × 12.5	1 x 12.5 1 x 25.0	1×12.5 1×25.0	1 x 12.5 1 x 25.0	1 x 12.5 1 x 25.0	1×12.5 1×25.0	1 x 12.5 1 1 x 25.0	1 x 12.5 1 x 25.0	1 x 12.5 1 x 25.0	2 × 25.0 2	2 x 25.0				
6	. NAM PHUNG	1 x 3.6	1 x 3.6	1 x 3.6	1 × 3.6	1 x 3.6	1 x 3.6	1 x 3.6	1 x 3.6	1 × 3.6	1 x 3.6	1 x 3.6	1 x 3.6	1 × 3.6	1 × 6.25 1	x 6.25
.7.	NONG KHAI	1 x 31.5	1 × 31.5	1 × 31.5	1 x 31.5 1 x 25.0	1 x 31.5 1 x 25.0	1 x 31.5 1 x 25.0	1 x 31.5 1 x 25.0	1 x 31.5 1 1 x 25.0	1 x 31.5 1 x 25.0	1 x 31.5 1 x 25.0	1 x 31.5 1 x 25.0	1 x 31.5 1 x 25.0			
8	. PHANG KHON	2 x 13.0	2 x 13.0	2 × 13.0	2 x 13.0	2 × 13.0	2 x 13.0	2 × 13.0	2 x 13.0	2 × 13.0	2 x 13.0	2 × 13.0	2 × 13.0	2 × 13.0	2 x 13.0	2 x 13.0
6	. SAKON NAKHON	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 × 25.0	1 x 25.0	1 x 25.0	1 * 25.0	2 x 25.0	2 × 25.0	2 × 25.0	2 × 25.0	2 x 25.0
10.	. THAT PHANOM	1 x 6.3	1 x 6.3	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 × 25.0	1 x 25.0	1×25.0	1 x 25.0	1 x 25.0				
	. UDON THANI 1	1 x 31.5	1 × 31.5	1 x 31.5	1 × 31.5	1×31.5	1 x 31.5	1 x 31.5	1 × 31.5	1 x 31.5	1 x 50.0	1 x 50.0	1 x 50.0	1 x 50.0	1 × 50.0	1 x 50.0
12.	. UDON THANI 2	2 x 25.0	2 x 25.0	2 × 25.0	2 x 25.0	2 × 25.0	2 × 25.0	1 x 25.0 1 x 40.0	1 x 25.0 1 x 40.0	1 x 25.0 1 x 40.0	2 x 40.0	2 x 40.0	2 × 40.0	2 × 40.0	2 × 40.0	2 × 40.0
.: ::	. BUNG KAN		1 x 25.0	1 × 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1×25.0	1 × 25.0	1 x 25.0	1 x 25.0	1×25.0	1 x 25.0	1 x 25.0	1 × 25.0	1 x 25.0
14.	. KHON KHAEN 2		1 x 25.0	1 x 25.0	1×25.0	1 × 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	2 x 25.0	2 × 25.0	2 x 25.0	2 x 25.0
12	. BAN PHAI				1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1.x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1×25.0	1 x 25.0	1 x 25.0
CAJ	CAPACITY (MVA)	292.65	380.95	399.65	474.65	474.65	474.65	502.15	502.15	502.15	554.40	604.40	629.40	629.40	644.55	644.55
NO.	. OF SUBSTATIONS	12	14	14	15	15	15	15	15	15	15	15	1.5	15	15	15
Š	OF BANKS	14	18	18	21	21	21	21	21	21	22	23	24	24	24	24
oğ Oğ). OF TRANSFORMERS	1.7	21	21	24	24	24	24	24	24	24	25	56	26	26	26
J																

ANNEX 5-1-5

SUBSTATION EXPANSION PLAN OF REGION NEZ

								·			 				_
2000	1 x 25.0 1 x 40.0	1 x 25.0 1 x 40.0	1 x 25.0	3 x 25.0	1 x 12.5	3 x 25.0	1 x 12.5 1 x 25.0	2 x 31.5 2 x 50.0	2 × 25.0	1 x 25.0	593.0	07	21	21	
1999	1 x 25.0 1 x 40.0	1 x 25.0 1 x 40.0	1 x 25.0	3 x 25.0	1 x 12.5	3 × 25.0	1 × 12.5 1 × 25.0	2 x 31,5 2 x 50.0	2 x 25.0	1 x 25.0	593.0	10	21	21	
1998	1 x 25.0 1 x 40.0	2 × 25.0	1 x 25.0	3 x 25.0	1 x 6.0	3 x 25.0	1 x 12.5 1 x 25.0	2 x 31.5 2 x 50.0	2 x 25.0	1 x 25.0	571.5	10	23	21	
1997	2 x 25.0	2 x 25.0	1 × 25.0	3 x 25.0	1 × 6.0	3 × 25.0	1 x 12.5 1 x 25.0	2 x 31.5 2 x 50.0	2 x 25.0	1 × 25.0	556.5	10	21	21	
1996	2 × 25.0	2 x 25.0	1 x 25.0	3 x 25.0	1 x 6.0	3 x 25.0	1 x 12.5 1 x 25.0	2 x 31.5 2 x 50.0	2 x 25.0	1 × 25.0	556.5	0.1	2.1	21	
1995	2 x 25.0	2 x 25.0 ;	1 x 25.0	3 x 25.0	1 x 6.0	3 × 25.0	1 x 12.5 1 x 25.0	2 x 31.5	2 × 25.0	1 × 25.0	556.5	10	21	21	
1994	x 25.0	x 25.0	1 x 25.0	2 x 25.0	1 x 6.0	1 x 25.0 2 x 10.0	1 x 12.5 1 x 25.0	2 × 31.5	2 × 25.0	1 × 25.0	501.5	01	19	20	
1993	2 x 25.0 2	2 × 25.0 2	1 x 25.0	2 × 25.0 2	1 × 6.0	1 x 25.0 1 2 x 10.0	1 × 12.5	2 x 31.5 2 x 2 x 50.0 2	2 x 25.0	1 x 25.0 1	501.5	10	19	20	
1992	× 25.0	x 25.0	x 13.0	× 25.0	1 × 6.0	1 x 25.0 2 x 10.0	x 12.5 x 25.0	2 × 31.5	x 25.0	× 25.0	489.5	01	19	50	
1991	x 25.0 2	x 25.0 2	x 13.0 1	x 25.0 2	x 6.0	x 25.0 x 10.0	x 12.5 x 25.0	x 31.5 x 50.0	x 25.0 2	x 25.0 1	489.5	e.	19	20	
1990	x 25.0 2	× 25.0 2	x 13.0 1	x 25.0 2	x 6.0 1	x 25.0 1 x 10.0 2	x 12.5 1 x 25.0 1	x 31.5 2 x 50.0 2	× 25.0 2	x 25.0 1	489.5	01	19	20	
1989	2 x 25.0 2	x 25.0 2	x 13.0 1	x 25.0 2	× 6.0 1	x 25.0 1 x 10.0 2	x 12.5 1	x 31.5 2 x 50.0 2	x 25.0 2	П	439.5	6 0	17	18	
1988	x 25.0 2	x 25.0 2	x 13.0 1	x 25.0 2	x 6.0 1	x 25.0 1 x 10.0 2	x 12.5 1	2 × 31.5 2	x 25.0 2		314.5	6	14	15	
1987	x 25.0 1	x 25.0 2 x	x 13.0 1	x 25.0 2	1 0.9 ×	1 x 25.0 1 2 x 10.0 2	x 12.5 1	x 31,5	x 25.0 2		289.5	6	13	14	
1986	1 x 25.0 1 x 25.0 1 x 25.0	2 x 25.0 2 x	x 13.0 1	x 25.0 1	x 6.0 E	x 25.0 x 10.0	x 12.5 l x	x 31.5 2	2 x 25.0 Z		289.5	6	13	14	
NO. SUBSTATION NAME	1. KALASIN	2. maha sarakham	3. MUKDAHAN	4. ROLET	5. SIRINDHON	6. SISAKET 2	7. SOMDET	8. UBON RATCHATHANI 2	9. YASOTHON 2	10. AMMAT CHARDEN	CAPACITY (MVA)	NO. OF SUBSTATIONS	NO. OF BANKS	NO. OF TRANSFORMERS	

ANNEX 5-1-6

SUBSTATION EXPANSION PLAN OF REGION NE3

							•								
NO. SUBSTATION NAME	1986	1987	1988	1989	1990	1661	1992	1993	1994	1995	1996	1997	1998	1999	2000
1. BURI RAM	2 x 12.5	x 12.5 2 x 12.5	2 × 12.5	1 x 25.0 1 x 40.0	1 × 25.0 1 × 40.0	1 x 25.0	1 x 25.0 1 x 40.0	1 × 25.0 1 × 40.0	1 x 25.0 1 x 40.0 1	1 x 25.0 1 x 40.0	1 x 25.0	1 x 25.0 1 x 40.0 1	1 x 25.0 1 x 40.0	1 x 25.0 1 1 x 40.0 1	x 25.0 x 40.0
2. СНАІУА ВНИМ	2 x 13.0	2 x 13.0 2	x 13.0	2 x 13.0 2	x 13.0	2 x 13.0	2 × 13.0	2 x 25.0	2 × 25.0	2 × 25.0	2 × 25.0 2	2 × 25.0 2	2 x 25.0	2 x 25.0 2	x 25.0
3. NAKHON RACHASIMA	2 x 31.5	2 x 31.5 2	x 31.5	2 x 31.5 1 x 50.0	2 x 31.5 1 x 50.0	2 × 31.5 1 × 50.0	2 x 31.5 1 x 50.0	2 x 31.5 1 x 50.0	2 x 31.5 1 1 x 50.0	2 × 31.5	2 × 31.5 2 1 × 50.0	2 × 31.5 2 1 × 50.0	2 x 31.5 1 x 50.0	2 x 31.5 2 1 x 50.0 1	2 x 31.5 1 x 50.0
4. NAKHON RACHASIMA	1 x 25.0	1 x 25.0 1 1 x 50.0 1	1 x 25.0 1 x 1 x 50.0 1 x	1 x 25.0 1 x 50.0	1 x 25.0 1 x 50.0	1 x 25.0 1 x 50.0	1 x 25.0	1 x 25.0 1 1 x 50.0 1	1×25.0 1×50.0	1 x 25.0	1 x 25.0 1 x 50.0				
5. PAK CHONG	1 x 25.0 l x	1 x 25.0 1 x	1 x 25.0 2	x 25.0	2 x 25.0	2 x 25.0	2 x 25.0	2 x 25.0	2 x 25.0	2 × 25.0	2 x 25.0	2 × 25.0	2 × 25.0	2 × 25.0	2 x 25.0
мона • 9	1 x 25.0	1 x 25.0 1 x	1 x 25.0 1	1 x 25.0	1 x 25.0	1 x 25.0	2 x 25.0	2 × 25.0	2 x 25.0	2 x 25.0	2 x 25.0	2 × 25.0	2 × 25.0	2 × 25.0	2 x 25.0
7. SHIKHIU	1 x 31.5 1 x	1 x 31.5 1 x	31.5	1 x 31.5	1 x 31.5	1 × 31.5	1 x 31.5	1 x 31.5	1 x 50.0	1 × 50.0	1 x 50.0	1 x 50.0	1 x 50.0	1 x 50.0	1 x 50.0
8. SURIN	2 x 25.0 2 x	2 x 25.0 2 x		25.0 2 x 25.0	2 x 25.0	2 x 25.0	2 x 25.0	2 x 25.0	2 x 25.0	2 × 25.0	2 x 25.0	2 x 25.0	2 x 25.0	2 × 25.0	2 x 25.0
9. PHIMAI				1 × 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0				
10. PRAKHONCHAI					1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0				
														*.	Marie Andrews
CAPACITY (MVA)	270.5	320.5	320.5	460.5	485.5	485.5	510.5	534.5	553.0	553.0	553.0	553.0	553.0	553.0	553.0
NO. OF SUBSTATIONS	8	ω	80	6	10	01	10	01	01	10	10	10	10	10	10
NO. OF BANKS	01	11	11	15	16	91	17	18	18	18	18	18	18	18	18
NO. OF TRANSFORMERS	12	13	13	91	17	17	18	18	18	81	18	18	18	18	18

SUBSTATION EXPANSION PLAN OF REGION CI

	2000	1 x 25.0	2 x 25.0	1 × 40.0	2 × 40.0	2 x 40.0	2 x 25.0	1 x 25.0 1 x 40.0	1 × 40.0 1 × 25.0	2×25.0 1×40.0	2 x 50.0 1 x 40.0	1 x 25.0	2 x 25.0	1 x 25.0 1 x 6.0	2 × 40.0	1 × 40.0	1 x 25.0	1 x 25.0	1 x 25.0	1 × 40.0	0 960	2	61	32	32
(DNIT: MVA)	6661	1 x 25.0	2 x 25.0	1 x 40.0	2 x 40.0	2 x 40.0	2 × 25.0	1 x 25.0 1 x 40.0	1×40.0 1×25.0	2×25.0 1×40.0	2 x 50.0 1 x 40.0	1 z 25.0	2 x 25.0	1 x 25.0 1 x 6.0	2 x 40.0	1 x 40.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 40.0	1 026 0	: _	19	32	32
86)	1998	1 x 25.0	2 x 25.0	1 x 40.0	2 × 40.0	2 × 40.0	2 x 25.0	1 x 25.0 1 x 40.0	1 × 40.0 1 × 25.0	2 x 25.0 1 x 40.0	2 x 50.0 1 x 40.0	1 x 25.0	2 x 25.0	1 x 25.0 1 x 6.0	2 × 40.0	1 × 40.0	1 x 25.0	1 x 25.0	1 × 25.0	1 x 40.0	1 026 0	7,020	19	32	32
	1997	1 × 10.0	2 x 25.0	1 x 40.0	2 × 40.0	2 × 40.0	2 x 25.0	2 x 25.0	1 x 40.0	2 x 25.0 I x 40.0	2 x 50.0 1 x 40.0	1 x 25.0	2 x 25.0	1 x 25.0 1 x 6.0	2 x 40 0	1 x 40.0	1×25.0	1 × 25.0	1 x 25.0	1 × 40.0	071.0	2112	19	31	31
	9661	1 x 10.0	2 x 25.0	1 x 40.0	2 × 40.0	2 × 40.0	2 × 25.0	2 x 25.0	1 × 40.0	2 x 25.0 1 x 40.0	2 x 50.0 1 x 40.0	1 x 25.0	2 x 25.0	0 1 x 25.0 0 1 x 6.0	2 x 40.0	1 × 40.0	1 × 25.0	1 x 25.0	1 x 25.0	1 × 40.0	0.170	4	19	31	31
	1995	1 × 10.0	2 x 25.0	0 1 × 40.0) 2 × 40.0	2 x 40.0	0 2 x 25.0	0 2 × 25.0	.0 1 × 40.0	0 2 × 25.0 0 1 × 40.0	0 2 x 50.0 0 1 x 40.0	.0 1 × 25.0	0 2 x 25.0	0 1 x 25.0 0 1 x 6.0	0 2 × 40.0	.0 1 × 40.0	.0 1 × 25.0	.0 1 x 25.0	0 1 × 25.0	.0 1 × 40.0	0 4 2 0	_	19	31	31
ON CI	1994	.0 1 × 10.0	.0 2 x 25.0	0 1 × 40.0	0 2 × 40.0	40.0 2 × 40.0	0 2 x 25.0	0 2 x 25.0	1 × 40	0 2 x 25.0 0 1 x 40.0	0 2 × 50.0 0 1 × 40.0	.0 1 x 25.	0 2 x 25.0	.0 1 x 25.0	0 2 × 40.0	.0 1 × 25.	.0 1 x 25.	.0 1 x 25.	.0 1 x 25.0	.0 1 × 40.	44	4	159	31	31
N OF REGION	1993	1 × 10	2 x 25	0 1 × 40.0	0 2 × 40.0	2 ×	0 2 x 25.0	0 2 × 25.0	0 1 × 40.0	0 2 × 25.0 1 × 40.0	0 2 × 50.0	0 1 × 25	.0 2 × 25.0	1 x 25 1 x 6	.0 2 × 40.0	0 1 × 25	1 x 25	1 x 25	1 x 25	0 1 × 40	0.50	3	19	31	3.
EXPANSION PLAN	1992	0 1 × 10.0	.0 2 x 25.0	.0 1 × 40.0	.0 2 × 40.0	.0 2 × 40.0	.0 2 x 25.0	.0 2 × 25.0	.0 1 × 40.0	.0 2 × 25.0	.0 2 x 50.0	1 × 25	.0 2 × 25.0	.0 1 x 25.0	.0 2 × 40.0	1 x 25	.0 1 x 25.0	.0 1 × 25.0	.0 1 x 25.0	07 × 1	5	2 6	19	30	98
중	1991	.0 1 × 10.0	2 × 25	.0 1 × 40.0	.0 2 × 40.0	.0 2 × 40.0	.0 2 x 25.0	2 x 25	.0 1 × 40.0	.0 2 × 25.0	.0 2 x 50.0 .0 1 x 40.0	.0 1 x 25.0	.0 2 x 25.0	25.0 1 x 25.0 6.0 1 x 6.0	.0 1 x 40.0	.0 1 × 25.0	.0 1 x 25.0	25.0 1 x 25.0	.0 1 x 25.0	0.07 × 1 0.0	2,0	8	19	29	29
SUBSTATE	1990	0 1 × 10.0	25.0 2 x 25.0	40.0 1 × 40.0	.0 2 × 40.0	.0 2 × 40.0	25.0 2 x 25.0	25.0 2 x 25.0	40.0 1 x 40.0	25.0 2 × 25.0	50.0 2 × 50.0 40.0 1 × 40.0	25.0 1 x 25.0	25.0 2 x 25.0	25.0 1 x 25 6.0 1 x 6	40.0 1 × 40.0	25.0 1 × 25.0	25.0 1 x 25.0	25.0 1 × 25	1 x 25.0	1 × 40.0	0 320		19	29	29
	1989	.0 1 × 10.0	25.0 2 x 25	40.0 1 x 40	40.0 2 x 40.0 2	40.0 2 x 40.0 2	25.0 2 x 25	25.0 2 × 25	0.0 1 × 40	25.0 2 × 25	50.0 2 x 50 40.0 1 x 40	25.0 1 x 25	25.0 2 × 25	25.0 1 x 25 6.0 1 x 6	40.0 1 × 40	25.0 1 x 25	1 × 25	1 × 25			6	_ _	17	27	27
	1988	x 10.0 1 x 10.0 1	25.0 2 × 25	40.0 1 × 40	40.0 2 × 40	40.0 2 × 40	25.0 2 × 25	25.0 2 × 25	x 40.0 1 x 40.0 1 x 40.0 1 x	25.0 2 × 25	50.0 2 × 50 40.0 1 × 40	25.0 1 × 25	25.0 2 × 25	25.0 1 x 25 6.0 1 x 6	40.0 1 × 40	25.0 1 x 25					0 132		25	25	25
	1987	x 10.0 1 x 10	×	40.0 1 x 40	40.0 2 × 40	40.0 2 x 4(25.0 2 x 2	25.0 2 × 2	0.0 1 × 46	25.0 2 x 2	2 x 5 40.0 1 x 4	25.0 1 x 2	25.0 1 × 2	25.0 1 x 2 6.0 1 x	l x 4	1 × 2					0 112	-	15	23	23
]	1986 I 1986		1 x 25.0	1 x 4	2 x 4	2 x 4	2 x 2	2 × 2	1 × 4	2 x 2	1 x 4	1 × 2	1 × 2	1 x 2		Z					9 1	+	13	19	S 13
ANNEX 5-1-7	SUBSTATION NAME	ANG THONG 1	ANG THONG 2	AYUTTAYA 1	BANG KHAN	BAN MAI	PA IN	PRACHIN BURI	8. Pathum thani	Saraburi i	SARABURI 2	SARABURI 3	SARABURI 4	Thalan	14. THANYA BURI	15. WATTHANA NAKHON	PRAPHUTTHABAT	17, NAKHONNAYOK	AYUTTHAYA 2	NAVANAKHON	(MIN) AGEORGE	t (man)	OF SUBSTATIONS	OF BANKS	TRANSFORMERS
	NO. SU	1. ANG	2. ANG	3. AYU	4. BANG	5. BAN	6. BAN PA IN	7. PRAK	8. PAT	9. SAR	10. SAR	11. SAR	12. SAR	13. THA	14. THA	15. WAT	16. PRA	17, NAK	18. AYU	19, NAV.	i T		NO. OF	NO. OF	NO. OF
			* #								A	5- 7													

SUBSTATION EXPANSION PLAN OF REGION C2

NO. SUBSTATION NAME	1986	1987	1988	1 6861	1990	1991	1992	1993	1994	1995	9661	1997	1998	6661	2000
1. AO PHAI	1 x 40.0	1 × 40.0	1 x 40.0	1 × 40.0	1 × 40.0	1 × 40.0	1 × 40.0	1 × 40.0	1 x 40.0	1 × 40.0	1 x 40.0	1 × 40.0	1 x 40.0	1 x 40.0	1 × 40.0
2. Ban bung	1 × 25.0	1 × 25.0	1 x 25.0 1 x 40.0	1 x 25.0 1 x 40.0	1 × 25.0 1 1 × 40.0 1	1 x 25.0 1 x 40.0	1 x 25.0 1 x 40.0	1 x 25.0 3 x 40.0	1 x 25.0 1 x 40.0	1 x 25.0 1 x 40.0	1 x 25.0 1 x 40.0	1 x 25.0	1 x 25.0 1 x 40.0	1×25.0 1×40.0	1 x 25.0 1 x 40.0
3. BANG LAMUNG	2 x 25.0	2 x 25.0 1 x 40.0	2 x 25.0 1 x 40.0	2 x 25.0 1 x 40.0	2 x 25.0 2 1 x 40.0	2 x 25.0 1 x 40.0	2 x 25.0 1 x 40.0	2 x 25.0 1 1 x 40.0	2 x 25.0 1 x 40.0	2 x 25.0 1 x 40.0	3 x 40.0	3 x 40.0	3 x 40.0	3 x 40.0	3 × 40.0
4. CHON BURI	1 x 40.0 2 x 25.0	1 × 40.0 2 × 25.0	1×40.0 2×25.0	1 × 40.0 2 × 25.0	1 x 40.0 1 2 x 25.0 2	1 x 40.0 2 x 25.0	1 x 40.0 2 x 25.0	1 x 40.0 2 x 25.0	1 x 40.0 2 x 25.0	1×40.0 2×25.0	1 x 40.0 2 x 25.0	1 x 40.0 2 x 25.0	1 x 40.0 2 x 25.0	1 × 40.0 2 × 25.0	1 × 40.0 2 × 25.0
5. CHACHOENGSAO	2 x 25.0	2 × 25.0	2 x 25.0	2 x 25.0	2 x 25.0	2 × 25.0	2 x 25.0	2 x 25.0	2 × 40.0	2 × 40.0	2 × 40.0	2 × 40,0	2 × 40.0	2 × 40.0	2 x 40.0
6. CRANTHABURI	2 x 25.0	2 x 25.0	2 × 25.0	2 x 25.0	2 x 25.0	2 × 25.0	2 x 25.0	2 × 40.0	2 × 40.0	2 × 40.0	2 × 40.0	2 × 40.0	2 x 40.0	2 x 40.6	2 × 40.0
7. KLAENG	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 × 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1×25.0	1 x 25.0	1 x 25.0	1 x 40.0	0.04 × 1	1 x 40.0
8. RAYONG 1	2 × 25.0	2 x 25.0	2 x 25.0	2 x 25.0 1 x 40.0	2 x 25.0 1 x 40.0	2 x 25.0 1 x 40.0	2 x 25.0 1 x 40.0	2 x 25.0 1 x 40.0	2×25.0 1×40.0	2 x 25.0 1 x 40.0	2 x 25.0 1 x 40.0	3 × 40.0	3 × 40.0	3 × 40.0	3 x 40.0
9. RAYONG 2	1 x 25.0	1 × 25.0	I x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 × 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0
10. RAYONG 3	2 x 40.0	3 x 40.0	3 x 40.0	3 x 40.0	3 × 40.0	3 x 40.0	3 x 40.0	3 × 40.0	3 x 40.0	3 × 40.0	3 × 40.0	3 × 40.0	3 × 40.0	3-x 40.0	3 × 40.0
11. SRIRACHA	2 × 12.5	2 x 12.5	2 × 12.5	1 x 12.5 1 x 25.0	1 x 12.5 1 x 25.0	2 x 12.5 1 x 25.0	1 x 12.5 1 x 25.0	$\begin{array}{c} 1\times12.5\\ 1\times25.0 \end{array}$	1 x 12.5 1 x 25.0	1×12.5 1×25.0	$\begin{array}{c} 1 \times 12.5 \\ 1 \times 25.0 \end{array}$	2 x 25.0	2 × 25.0	2 x 25.0	2 × 25.0
12. TRAT		1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1'x 25.0	1 x 25.0	1 × 25.0	1 × 40.0	1 x 40.0	1 × 40.0	1 × 40.0	1 x 40.0
13. PHANOM SARAKHAM					1 x 25.0	1 x 25.0	1 x 25.0	1×25.0	1 x 25.0	1 x 25.0	1×25.0	1 x 25.0	1 x 25.0	1×25.0	1 x 25.0
14. PHANUTNIKHOM		1.00				1 × 25.0	1 x 25.0	1 × 25.0	1 x 25.0	1 × 40.0	1 × 40.0	1×40.0	1 x 40.0	1 x 40.0	1 × 40.0
						3									
CAPACITY (MVA)	510.0	615.0	655.0	707.5	732.5	757.5	757.5	787.5	817.5	832.5	877.5	920.0	935.0	935.0	935.0
NO. OF SUBSTATIONS	11	12	12	12	13	14	71	14	14	14	14	14	14	14	14
NO. OF BANKS	18	21	22	24	25	26	26	26	26	26	26	26	26	26	26
NO. OF TRANSFORMERS	61	22	23	24	25	26	26	26	97	26	26	26	36	3 6	26

SUBSTATION EXPANSION PLAN OF REGION C3

စ္က	25.0	40.0	25.0	25.0	40.0	50.0	0.04	25.0	25.0	25.0	50.0	0.04		850.0	12	25	25	
2000	7 - - 2 × ×	×.	2 ×	×	~ . ~ . × ×	7 ×	2 ×	ж ж 	2 ×	2 ×	7 X X	×		85	1	2	2	
6661	x 25.0 x 40.0	× 40.0	x 25.0	x 25.0	x 40.0 x 25.0	x 50.0	x 40.0	x 25.0 x 40.0	x 25.0	x 25.0	x 50.0 x 40.0	x 40.0		850.0	12	25	25	
	100	0.	0.2	10.	2 1	0 2	0.0	110	0 2	0 2	0 O	0		0.				
1998	2 x 25. 1 x 40.	2 × 40	2 × 25	1 × 25	1 x 40. 2 x 25.	2 x 50	2 x 40	1 x 25. 1 x 40.	2 x 25	2 x 25	1 x 50 2 x 40	1 × 25		835,	12	25	25	
766	25.0	40.0	25.0	25.0	40.0	50.0	40.0	25.0	25.0	25.0	50.0	25.0		835.0	12	25	25	
19	2 × ×	0 2 x	0 2 x	0 1 x	0 11 0 2 x	0 2 ×	0 2 ×	0 11 11 X X	2 x	0 2 x	0 1 x	0 1 ×		83		- 7	2	
1996	x 25.0 x 40.0	x 40.0	x 25.0	x 25.(× 40.0	× 50.(× 40.(× 25.0 × 40.0	x 25.0	x 25.(x 50.0 x 40.0	x 25.		835.0	12	25	25	
	25.0 2 40.0 1	0.	0.0	0.	0.0	0.	0.	00	2 0.	0.	2 1	0.0		0				
1995	2 × 25 1 × 40	2 × 40	2 x 25	1 x 25	1 × 40 2 × 25	2 × 50	2 × 40	1 x 25 1 x 40	2 × 25	2 x 25	1 x 50 2 x 40	1 x 25		835	12	25	25	
766	25.0	0.04	25.0	25.0	40.0	50.0	40.0	25.0	25.0	25.0	20.0	25.0		5.0	12	24	24	
19	× ×	× 7	× ×	 ×	. X. X	2 ×	× 7	× 0	0 2 ×	2 ×	0 5 × 0 × 0	× 10		795	7			
1993	x 25.0 x 40.0	× 40.0	× 25.0	x 25.0	x 40.0 x 25.0	x 50.0	0.04 x	x 25.(x 25.	x 25.0	× 50.6 × 40.0	x 25,		795.0	12	24	24	
	7.7	0.	0.	0	77	0 5	0.	0	0.	.0 2	50.0 1 40.0 2	0		0		·		
1992	× 25.	07 ×	× 25	x 25	x 46 x 25	× 50	x 40	x 25	2 x 25	x 25	1 x 50 2 x 40	1 x 25		795.	12	24	24	
	25.0 2	40.0 2	25.0 2	25.0 1	40.0 1	40.0 2	40.0 2	25.0 1	25.0 2	25.0 2	50.0	25.0		0	12			
1991	2 H	2 ×	2 ×	×	~ ~	2 x	2 ×	×	2 X	×	×	×		670	-	21	21	
1990	25.0	40.0	25.0	25.0	40.0	40.0	40.0	25.0	25.0	25.0	50.0	25,0		670.0	12.	21	21	
	0 0 1 X	0 2 x	0 2 x	×	0 0 1 x x	0 2 ×	0 2 x	x 1	0 2 x	× 1 0	0 	0 1 ×						
1989	x 25.0 x 40.0	× 40.0	× 25.0	× 25.0	x 40.0 x 25.0	× 40.0	x 40.0	x 25.0	x 25.0	x 25.0	x 50.0	x 25.0		670.0	12	21	21	
8	x 25.0 2 x 40.0 1	40.0 2	25.0 2	25.0 1	40.0 1 25.0 2	40.0 2	25.0 2	25.0 1	25.0 2	25.0 1		~-		565.0				
1988	2 ~	2 × 4	7 X	×	- C1	7 ×	2 x		2 ×	×				265	10	19	19	
1987	x 25.0 x 40.0	40.0	25.0	25.0	40.0 25.0	40.0	25.0	x.25.0 1.x	25.0	25.0				565.0	10	19	19	
	· 2	0 2 ×	0 2 ×	25.0 1 ×	0 0 X X	0 2 x	0 2 x		0 2 x	0 X								
1986	2 x 25.0	0.05 ×	x 25.0	x 25.	x 40.0 x 25.0	x 40.0	x 25,0	x 25.0	x 25.0	x 25.0				500.0	10	17	17	
AME		2			2	2	2	-1	-2	1		UAT					S	
SUBSTATION NAME	1	2	BURI	KAMPHAENG SAEN	AISI	1	SAMUT SAKHON 1	SAMUT SAKHON 2	IRI		[7	DOEMBANG NANGBUAT	-	2	SUBSTATIONS		OF TRANSFORMERS	
BSTAT	BANG PONG 1	BANG PONG	KANCHANA BURI	HAENC	NAKHON CHAISI	SAM PHRAN	T SAK	T SAK	SUPHAN BURI	THAMUANG	SAM PHRAN	BANG		(HV	SUBSTA	OF BANKS	TRANSE	
					5. NAKE	1			9. SUP	i e			- : :	CAPACITY (MVA)	5		4	
S.	r	લે	ų	4	'n :	vo	7	∞ .	9	ë.	Ħ	12.		3	0	NO.	ON O	

SUBSTATION EXPANSION PLAN OF REGION SI

NO.	SUBSTATION NAME	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
,	сна ам	2 x 25.0	2 x 25.0	2 x 25.0	2 x 25.0	2 x 25.0	2 x 25.0	2 × 25.0	2 x 25.0	2 x 25.0	2 x 25.0	2 x 25.0	2 x 25.0	2 x 25.0	2 x 25.0	2 x 25.0
2.	CHUM PHON	1 x 25.0	1 x 25.0 1	1.x.25.0	1 x 25.0	1 x 25.0	1 x 25.0	1×25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1×25.0	1 x 25.0	1 x 25.0
9	PHETCHA BURI	2 x 12.5	2 x 12.5	2 x 12.5	2 × 12.5	2 x 25.0	2 x 25.0	2 x 25.0	2 × 25.0	2 x 25.0	2 × 25.0	2 × 25.0	2 x 25.0	2 x 25.0	2 x 25.0	2.x.25.0
, 4	Prachoapkhtri Khan	1 × 25.0	1 × 25.0	1 × 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 × 25.0	1 x 25.0	1 × 25.0	1 × 25.0	1 × 25.0	1 x 25.0
٦,	PRAN BURI	1 x 25.0	1×25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 × 25.0	1 × 25.0	1 x 25.0				
6.	RANONG	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1×25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 × 25.0
7.	RATCHABURI 1	2 × 12.5	2 x 12.5	2 x 12.5	2 x 12.5	2 × 12.5	2 × 12.5	2 × 12.5	2 × 12.5	1 x 12.5 1 x 25.0						
တွ	RATCHABURI 2	1 × 25.0	1 x 25.0	1 x 25.0	1 × 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1×25.0	1 x 25.0	1 x 25.0	1 × 25.0	1 × 25.0	1 x 25.0
9	SAMUT SONGKHRAM	1 x 25.0	1 x 25.0 1	1 x 25.0 1	1 x 25.0	1 x 25.0	1 x 25.0	1 × 40.0	1 × 40.0	1 × 40.0	1 × 40.0	1 × 40.0	1 × 40.0	1 x 40.0	1 × 40.0	1 × 40.0
10.	HUA HIN						1 × 25.0	1 x 25.0	1×25.0	1 x 25.0	1 × 25.0	1 × 25.0				
11.	11. THAPSAKAE						1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 × 25.0	1 x 25.0	1×25.0	1 x 25.0	1 x 25.0	1 x 25.0
12.	LANG SUAN						1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 × 25.0	1 x 25.0	I x 25.0	1 x 25.0	1 x 25.0
												-				
CAP	CAPACITY (MVA)	250.0	250.0	250.0	250.0	275.0	350.0	365.0	365.0	377.5	377.5	377.5	377.5	377.5	377.5	377.5
NO.	OF SUBSTATIONS	6	6	6	σ,	6	12	12	12	12	12	12	12	12	12	12
NO	OF BANKS	10	10	10	10	11	14	14	14	15	15	15	15	1.5	15.	15
NO.	NO. OF TRANSFORMERS	12	12	12	17	12	57	15	15	15	15	15	15	57	35	15

SUBSTATION EXPANSION PLAN OF REGION S2

UNIT: MVA)

x 7.5 x 25.0 40.0 25.0 25.0 25.0 25.0 1×25.0 0.04 × 1×13.0 1 × 13.0 1 × 13.0 1 × 13.0 1 × 13.0 1 × 13.0 1 × 13.0 1 × 13.0 1 × 13.0 1 × 25.0 1 × 25.0 1 × 25.0 2×25.0 x 25.0 0.665 2000 12 5 20 x 40.0 1 x 4 x 31.5 1 x 3 K K] × × × 2 x 25.0 2 x 40.0 2 x 25.0 25.0 25.0 25.0 25.0 $\times 25.0 \times 25.0$ 1 x 25.0 1 x 25.0 7.5 $2 \times 25.0 | 2 \times 25.0 |$ 0.667 5 20 2 x 7.5 2 x 2 x 25.0 2 x × x 25.0 1 x 1 x 40.0 1 2 25.0 x 25.0 2 x 25.0 2 x 25.0 2 x 25.0 2 x 25.0 x 25.0 7.5 499.0 12 9 20 X X × ď 25.0 1 x 25.0 2 x 25.0 2 x 25.0 $1 \times 25.0 | 1 \times 25.0 | 1 \times 25.0$ 7.5 3 x 7.5 25.0 1 x 25.0 x 40.0 1 x 40.0 1 x 40.0 1 x 40.0 x 31.5 1 x 31.5 1 x 31.5 469.5 8 20 12 1 x 25.0 1 x 25.0 1 x 25.0 1 x 25.0 1 x 7.5 469.5 12 18 20 × 3 x 7.5 3 x 1 x 25.0 1 x 2 x 13.0 2 x 25.0 7.5 469.5 1995 12 8 20 × x 7.5 x 25.0 7.5 x 25.0 390.5 12 16 19 × **~** ~ x 25.0 1 1 x 40.0 x 25.0 7 5 x 25.0 x 25.0 2 x 13.0 390.5 1993 12 16 19 × x 25.0 1 1×31.5 1×25.0 x 25.0 1×25.0 25.0 1 x 25.0 1 x 25.0 2 x 13.0 2 x 13.0 2 x 13.0 7.5 $\times 25.0 | 1 \times 25.0 | 1 \times 25.0 | 1 \times 25.0 | 1 \times 25.0 |$ 2 x 25.0 2 x 25.0 2 x 25.0 7.5 3 x 7.5 1 x 25.0 375.5 1992 91 39 12 × 7.51 x 25.0 1 x 25.0 I 31.5 1 x 31.5 1 x 31.5 1 x 31.5 25.0 1 x 25.0 1 x 25.0 $6.01 \times 25.01 \times 25.01 \times 25.01 \times 25.01 \times 25.0$ 1991 358.0 12 15 1.9 7.5 1 x 7.5 4 x 1990 358.0 15 19 12 × 25.0 1 x × 25.0 2 x 25.0 2 x 25.0 2 x 25.0 2 25.0 7.5 7.5 2 x 25.0 2 x 25.0 2 x 13.0 358.0 2 2 Š 4 × × × x 25.0 1 x 7.5 7.5 1 x 13.0 2×13.0 333.0 1988 Ξ 7 8 1 x 31.5 l x l x 25.0 l x × × x 25.0 1 x 25.0 1 x 25.0 1 7.5 7.5 x 13.0 1 x 13.0 2 x 25.0 x 13.0 333.0 1987 <u>~</u> 7 18 × × 7.5 4 2 7.5 25.0 31.5 x 25.0 1×25.0 2×13.0 314.0 <u>-</u>4 77 ထ × X Ct ×× × × × SUBSTATION NAME OF TRANSFORMERS NO. OF SUBSTATIONS THANI SONG CAPACITY (MVA) NAKHON SI THAMMARAT CHIEW LAN PA NO. OF BANKS 4. LAMPOORA PHANGNGA 7. PHUKET 1 PHUNPHIN 3. KHANOM PHUKET TAKUA SURAT 11. THUNG KRABI 12. ∞: 10. Š 'n

SUBSTATION EXPANSION PLAN OF REGION S3

NO. SUBSTATION NAME	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
1. BANG LANG	1 x 7.5	1 x 7.5	1 x 7.5	1 x 7.5	I x 7.5	1 x 7.5 I	1x 7.5	1 x 7.5 1	1 x 7.5 1	1 x 7.5	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0 1	1 x 25.0
2. HAT YAI 1	1 × 40.0 1 × 25.0	1 x 40.0 1 x 25.0	1 x 40.0 1 x 25.0	1 × 40.0 1 × 25.0	1 x 40.0 1 x 25.0	1 × 40.0 1 × 1 × 25.0	1×40.0 1×25.0	1 × 40.0 1 1 × 25.0 1	1 x 40.0 1 x 25.0 1	1 x 40.0 1 x 25.0	1 x 40.0 2 x 25.0	1 x 40.0 2 x 25.0	1 x 40.0 2 x 25.0	1×40.0 2×25.0	1 x 40.0 2 x 25.0
3. HAT YAI 2	1 x 25.0	1 x 25.0	1 x 25.0	1 × 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 × 25.0	1 × 25.0	1 x 25.0	1 x 25.0	1 x 25.0	2 x 25.0	2 x 25.0	2 x 25.0
4. NARATHIWAT	1 × 25.0	1 x 25.0	1 x 25.0	2 × 25.0	2 x 25.0	2 x 25.0 2	2 x 25.0	2 × 25.0 2	2 × 25.0	2 x 25.0	2 x 25.0				
5. PHATTHALUNG	1 x 25.0	1 x 25.0	1 × 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 × 25.0	1 × 25.0	1 x 25.0	1 × 40.0	1 × 40.0	1 × 40.0	1 × 40.0	1 × 40.0
6. SADAO	1 x 7.5	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 × 25.0	1 × 25.0	1 × 25.0	1 × 25.0	1 × 25.0	1 × 25.0	1 x 25.0	1 x 25.0	1 x 25.0
7. SONG KHLA	2 × 25.0	2 x 25.0	2 x 25.0	2 × 25.0 2	2 × 25.0	2 × 25.0	2 × 25.0	1 x 25.0 1 x 40.0	1 x 25.0 1 x 40.0	1 × 25.0 1 × 40.0	1 × 50.0 1 × 40.0	1 x 50.0 1 x 40.0	1 x 50.0 1 x 40.0	1 x 50.0	1 x 50.0 1 x 40.0
8. YALA	l x 31.5 l x 25.0	1 x 31.5 1 1 x 25.0 1	1 x 31.5 1 1 x 25.0 1	1 x 31.5 1 x 25.0	1 x 31.5 1 x 25.0	1 x 31.5 1 x 25.0	1 x 31.5 1 x 25.0	1 x 31.5 1 x 25.0	1 x 31.5 1 x 25.0	1 x 31.5 1 x 25.0	1 x 31.5 1 x 25.0	1 × 31.5 1 × 25.0	1 x 31.5 1 x 25.0	1 x 31.5 1 x 25.0	1 x 31.5 1 x 25.0
9. PATTANI		2 x 25.0	2 x 25.0 2	2 x 25.0	1 x 25.0 1 x 50.0	1 x 25.0 1 x 50.0	1 × 25.0 1 × 50.0	1 x 25.0 1 x 50.0	2 x 50.0	2 × 50.0	2 x 50.0	2 x 50.0	2 × 50.0	2 x 50.0	2 × 50.0
10. SATUN		1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 25.0	1 x 40.0	1 x 40.0	1 × 40.0	1 × 40.0
11. RANOT						1 x 25.0	I x 25.0	1×25.0	1 × 25.0	1 × 25.0	1×25.0	1×25.0	1 x 25.0	1 x 25.0	1 x 25.0
CAPACITY (MVA)	261.5	354.0	354.0	379.0	404.0	429.0	429.0	444.0	0.695	0.695	551.5	566.5	591.5	591.5	591.5
NO. OF SUBSTATIONS	8	10	10	10	10	11	11	11	r=t tod	11	11	11	11	11	E4 F4
NO. OF BANKS	11	14	14	15	15	16	16	16	16	16	17	17	18	18	18
NO. OF TRANSFORMERS	11	14	14	3.5	15	16	16	16	16	16	17	17.	81	82	80

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ANNEX	ı
7	J

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	2000	7	FI.	7	0	2	« 0	2	. 4	2	7	r-d	7	7	m	2	7				71
(UNIT: cct)	1999	4	11	ঝ	10	8	60	'n	4	7	8	= 1	. 2	۲	'n	N	4				7.1
Ę	1998	4		4	10	8	00	'n	4	74	7		7	^	m	7	4				71
	1997	m	6	\$	10	લ	ю.	'n	4	. 2	. 23	₩H.	7	7	m m	2	4 7				89
	1996	ED.	6	4	œ	7	80	۱۰۰	4	2	7	H	7		m	7	4				99
	1995	m	σ.	4	80	8	60	Ŋ	4	7	8	H	2	۲	6	7	-				99
	1994	m	65	4	80	8	80	\$	4	7	2	p=4	2	r-	m	2	-4				99
PLAN NI	1993	. m.	gr.	4	93	۲۱	89	u٦	4	2	r	Ħ	61	7	m	2	-4				99
EXPANSION	1992	m	თ	4	æ	7	œ	E)	7	2	7	7	2	-	m	2	4				99
H.V. FEEDER EXPANSION PLAN NI	1661	ં (ગ	6	4	∞	~	00	ν.	4	2	۲۷	· rei	2	2	m	.2	4				99
H.V	0661	m	6	4	æ	7	80	'n	4	7	2	-	2	2	m .	2	4				99
	1989	т	6	4	~	7	00	'n	4	7	2	p-4	7	7	m	7	4				62
	1988	m	6 5.	4	7	7	63	۷	4	. 4	7	~	~	4	m	7	4				62
	1987	en	Ø	-31		8	α0	٠ ٧	4	73	7	#	2	4	m	2	4				62
	1986	m	6	7	7	N	ω	ψ,	4	7	2		77	4	m						56
ANNEX 5-2-1	NO. SUBSTATION NAME	1. CHIANG MAI 1	2. CHIANG MAI 2	3. CHIANG MAI 3	4. CHIANG RAI	5. LAMPHUN 1	6. LAMPHUN 2	7. LAM PANG 1	8. LAM PANG 2	9. FANG	10. MAE HONG SON	11. MAE MHAO 2	12. MAE SARING	13. PHAYAO	14. THOEN	15. MAE NGAT	16. CHOM THONG	17.	18.	19.	TOTAL

	2000	p=4	v	4	00	vo	∞	·w	-	9	. 4	9	4	4							62
(UNIT: cct)	1999	 1	Ŋ	4	∞	•	80	۱/۵	-t	ý	4	vo	4	4							62
NG)	1998		'n	ო	∞	•	∞	'n	r=4	vo .	4	<u>'</u>	4	4					**********	·	09
	1997	r-4	ιζ	m	, ω	9	80	'n		19 11	4	٠,	4	4							60
	1996	rel	7	m	ĸο	vo.	∞	5		9	4	· •	4	4							59
	1995	-	∢	m		٠	∞	اد.	—	9	4	v	4	4							59
	1994	7	7	m	œ	۰	∞	Ŋ		9	4	Vn	4	4							59
PLAN N2	1993	-	4	m	&	9	œ	2	p-4	9	4		4	4							56
EXPANSION PLAN N2	1992	-	4	m	∞	9	80	2	~	9	4	40	4	4					:		56
FEEDER	1661	prof	4	ю	∞	٠.٥	∞	2	-	9	4	Ŋ	4	4							56
H.V.	1990	-	4	n	ω	و	∞	7		9	7	٧.	4								52
	1989	بنم	4	m	50	m	7	2		in	4	4									39
	1988	~	4	e	S	n	7	8		'n	4	4									39
	1987		7	m	۲۵	'n	_	. 7		ιn	4	4									39
	1986	~	4	m	\$	m	7	2	e-e-t	'n	7	4									39
ANNEX 5-2-2	NO. SUBSTATION NAME	1. BHUMIBOL	2. KAMPHAENG PHET	3. NAN	4. PHARE	5. PHICHIT	6. PHITSANULOK 1	7. PHITSANULOK 2	8. SIRIKIT	9. SUKHO THAI	10. TAK	11. UTTARADIT	12. SAWAN KHALOK	13. MAE SOT	14.	15.	16.	17.	18.	19.	TOTAL
•									-		A 5	-14			•			-			: :

		ı T																				
		2000	7	9	4	10	1	ന്	m	4	. 4	4	4	4								9
		1999	_	٥	7	01	7	m	en	4	4	4	4	4								90
ŧ	5	1998	7	v	4	10	7	м	m	4	7	7	7	4								9
		1997	_	9	4	01	7	e)	·m	4	4	4	4	4								09
		1996		V	4	10	7	ମ	m	4	4	4	4	4					M M 			9
		1995	_	9	4	10	7	m	<u>س</u>	7	4	7	4	7								09
		1994		9	4	10	7	e	C	7	7	4	7	7								99
N PLAN N3		1993	7	9	4	10	7	e	e	4	7	4	4	7				-				09
EXPANSIO		1992	۲.	9	. 4	10	7	en .	m	4	4	4	4	4								09
		1991	7	9	4	0.7	7	6	en.	7	4	4	4	4								9
		1990	, 1 0	9	4	9	_	e)	m	4	7	4	4	7		· · · · · · · · · · · · · · · · · · ·						54
		1989	اد	9	4	•	2	m	m	4	4	4	4								ļ	50
		1988	Ŋ	9	4	ý	~	ĸ	σ,	4	4											42
		1987	ن	9	7	9	7	ю	ო	4	4					-						42
•	:	1986	Ŋ	9	4		~	en	٣									·				34
ANNEX 5-2-3			1. LOP BURI 1	2. LOP BURI 2	3. MANOROM	4. NAKHON SAWAN	5. PHECHABUN	6. SING BURI	7. TAKHLI 2	8. LOMSAK	9. CHAI BADAN	10. THATAKO	11. SALOKBAT	12. BANG MUN NAK	13.	14.	15.	16.	17.	18.	.61	TOTAL
	H.V. FEEDER EXPANSION PLAN N3	ANNEX 5-2-3 H.V. FEEDER EXPANSION PLAN N3 (UNIT: cct)	H.V. FEEDER EXPANSION PLAN N3 (UNIT: 1986 1989 1996 1997 1998 19	ANNEX 5-2-3 H.V. FEEDER EXPANSION PLAN N3 (UNIT: cct) SUBSTATION NAME 1986 1987 1988 1999 LOP BURI 1 5 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ANNEX 5-2-3 SUBSTATION NAME 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1995 1999 1999 1999 1999 1999	ANNEX 5-2-3 SUBSTATION NAME 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 LOP BURI 1 5 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ANNEX 5-2-3 SUBSTATION NAME 1986 1987 1988 1989 1990 1991 1992 1994 1995 1996 1997 1998 1999 LOP BURI 1 5 5 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ANNEX 5-2-3 SUBSTATION NAME 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 LOP BURI 1 5 5 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ANNEX 5-2-3 SUBSTATION NAME 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 1990 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 1990 1998 1999 1990 1991 1998 1999 1990 1998 1999 1990 1998 1999 1990 1998 1999 1999	ANNEX 5-2-3 SUBSTATION NAME 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1999	ANNEX 5-2-3 SUBSTATION NAME 1986 1987 1988 1989 1980 1991 1992 1993 1994 1995 1996 1997 1998 1999 LOP BURI 1 5 5 5 5 7	ANNEX 5-2-3 SUBSTATION NAME 1986 1987 1988 1989 1990 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 1990 1991 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 1990 1991 1992 1999 1990 1991 1992 1999 1990 1991 1992 1999 1990 1991 1992 1999 1990 1991 1992 1999 1990 1992 1999 1990 1992 1999 1990 1992 1999 1990 1992 1999 1990 1992 1999 1990 1992 1999 1990 1992 1999 1990 1992 1999 1999	NAMER 5-2-3 H.V. FEEDER EXPANSION PLAN N3 H.V. H.V. H.V. H.V. H.V. H.V. H.V. H.	NATION NAME 1986 1987 1989 1989 1989 1992 1993 1994 1995 1996 1997 1998 1999	NANDEX 5-2-3 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1999	Annex 5-2-2 Harman Sales Harma	ANNEX 5-2-2 SUBSTATION NAME 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 1999 1999 1999 1999 1999	NAMEN S-2-3 1986 1987 1988 1989 1990 1991 1992 1994 1995 1996 1997 1998 1999	Column C	STREET, CALLY STREET, STREET	NINEX 5-2-3 H.V. FERDIR DEVANISON PLAN H3 1995 1996 1997 1997 199	STRICKLYTON WARE 1986 1987 1989 1999

ANNEX 5-2-4					н. V.		FEEDER EXPANSION PLAN NEI	PLAN NEI			:		(DN	(UNIT: cct)	
NO. SUBSTATION NAME	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
1. CHUM PHAE	Ŋ	5	Ŋ	Ń	'n	٠,	iΛ	មា	S	'n	'n	'n	2	Ŋ	5
2. KHON KHAEN 1	٥	9	9	ø	80	ω	œ	 οό	8		œ	60	00	ω	ø
3. LOEI	'n	٧٦	'n	٧	σ ₁	σ	6	σ,	σı	· Ø1	6	6	6	<u>σ</u> ,	σ'n
4. NAKHON PHANOM	m	m	m	м	m		m	m	m	m	ო	m	ю	т	m
5. NAM PHONG	~	2	7	64	7	4	4	4	7	4	47	4	4	vo	ø
6. NAM PHUNG	mi	r-s	,rd	"	~	-1		-			-	,t	rod	Н	, p-4
7. NONG KHAI	'n	Ŋ	S	'n		7	. 7	. 7	7	7	^	7	_	7	7
8. PHANG KHON	4	4	4	4	4	4	7	. 4	4	4	4	4	4	4	4
9. SAKON NAKHON	7	4	4	4	4	-75	4	4	4	4	σ.	œ	80	∞	œ
10. THAT PHANOM	2	2	7	64	7	7	2	2	. 2	7	2	٧.	α.	2	. 21
11. UDON THANI 1	4	*	4	4	4	4	7	4	4	4	4	4	4	'n	70
12. UDON THANT 2	vo	٠	9	9	φ	9	9	Φ.	9	9	٠,	9	9	7	7
13. BUNG KAN		4	4	4	-3	-4	**	4	4	4	4	4	4	4	4
14. KHON KHAEN 2		4	4	4	4	4	4	4	4	4	4	vo	9	9	9
15. BAN PHAI				7	4	4	7	4	4	4	4	4	*	4	- 47
16.												· · · · · · · · · · · · · · · · · · ·			
17.						-				_					
18.												·•··			
19.												:			
TOTAL	47	55	55	59	69	69	69	69	69	69	73	75	75	79	97
						1		1	T	ļ		1	1		

	ANNEW 5.2.5					O H	030232	SEEDED EYBANGTON BIAN NES	DI AN ME?							
				-										AD)	(UNIT: cct)	_
Z	NO. SUBSTATION NAME	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	1. KALASIN	4	4	4	4	7	4	4	4	4	4	4	ν'n	'n	5	'n
	2. MAHA SARAKHAM	νο.	10	•	•	9	νο.	νο.	٥	vo	9	9	9	v	9	
	3. MUKDAHAN	m,	. m	: m	m	e.	w	n	m	E)	ю	en	3	m	n	
	4. ROIET	73	2	•	•	٥	νο	•	9	νο	6	ġ,	5	σh	6	6
	5. SIRINDHON	74	- 71	74	64	73	74	24	17	7	2	73	7	2	7	2
	6. SISAKET	4	4	4	4	7	4	4	7	-77	80	80	80	00	œ	90
· · · · · · · · · · · · · · · · · · ·	7. SOMDET	m	m	6	6	•	9.	9	V D	\0	•	V	10	ø	ý	٠
	8. UBON RATCHATHANI	V O	\$	۰,	<u>پ</u>	νο.	vo	v o	\0	\$0	. 10	. 😺	•	vo	vo	9
	9. YASOTHON	. 40	\$	٥	φ.	۵	φ.	۵		•	9	9	•	٥	vo	9
 A 5-	10. AMNAT CHARDEN					4	7	4	7	4	4	4	4	4	7	4
	11.															
	12.				***							·····				
r-4	13.		•			:	****				·	***************************************				
	14.						7.							***************************************		
	15.											***************************************				
	16.				.									t		
	17.									:				· ·		
	18.				·											
	19.															
1	TOTAL	36	36	07	0,7	7.7	47	47	7.7	47	54	54	55	55	55	55

¥.	NO. SUBST	1. BURI RAM	2. CHAIYA DHUM	3. NAKHON	4. NAKHON	5. PAK CHONG	6. PHON	7. SHIKHIU	8. SURIN	A 9. PHIMAI	10. PRAKHONCHAI	11.	12.	"		14.	15.	16.	17.	•	787	19.	TOTAL
ANNEX 5-2-6	SUBSTATION NAME	<u>~~~~</u>	рним	NAKHON RACHASIMA 1	NAKHON RACHASIMA 2)NG	 				1CHA1												
	1986	'n	'n	10	10	4	Ŋ	9	'n												-		50
	1987	٠,	'n	01	10	4	<u>ب</u>	ig.	'n				- -										50
	1988	'n	'n	O.T	10	4	Ŋ	vo.	'n														50
	1989	æ	5	10	10	9	v)	9	'n	4													59
н. v.	1990	හ	'n	10	01	9	Ι'n	9	'n	4	4												63
FEEDER B	1991	0 0	۱۷	01	ន្ទ	v	2	Q	'n	7	4												63
H.V. FEEDER EXPANSION PLAN NE3	1992	တ	'n	10	10	vo.	9	9	iΛ	4	4												99
PLAN NE3	1993	ø	S	01	91	v	9	9	'n	4	4				-								64
	1994	['] (C)	'n	10	10	9	9	9	ĸ٦	4	4												64
	1995	80	'n	01	02	vo	90	9	'n	4	-37												64
	1996	80	Ŋ	ဝ	10	vo	9	9	'n	4	4			, , , , , , , , , , , , , , , , , , , 									99
	1997	. 00	5	10	0	vo	9	9	ľ	4	4							and the same of the same of					99
n)	8661	, co	Ŋ	10	10	9	9	9	ν'n	4	7												79
(UNIT: cct)	6661	∞	ห	10	10	9	9	vo	ï۸	4	~ 3*												64
	2000	ω	'n	0,	10	9	ý	۷۵	Ŋ	4	7				••••				·			- - -	94

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H.V. FEEDER EXPANSION PLAN CI

1999 2000	۳ س		'n	80	80	9	10 10	· · · · · · · · · · · · · · · · · · ·	on.		е	'n	7	80		. 7	7	7	5	116 116
13								·- ·- ·-		···	<u></u>									H
1998	ന	9	Ŋ	00	∞	9	10	∞	6	on.	6	หา	7	80	4	4	4	4	ν	116
1997	m	٥	'n	80	.∞	9	10	80	9	6	m	หา		80	4	4	4	4	vn	116
1996	ল	ø	7	00	00	9	01	80	6	6	m	'n	7	œ	77	4	7	4	S	115
1995	en 	9	4	∞	ω	9	10	တ	6	Ø,	m	ν.	7	20	4	4	4	4	5	115
1994	e	\$9	4	60	903	9	10	∞	σı	о О	m	'n	_	60	4	4	4	4	\$	115
1993	m	9	4	*	∞	9	10	∞	6	6.	М	ĸ	7	ø¢,	4	4	4	4	5	115
1992	m	9	7	æ		•	01	6 0	'n	G.	٣	'n	7	65	4	4	4	4	5	111
1991	en	9	4	æ	. 60	9	10	æ	អា	σ,	ന	'n	^	-3	7	4	4	4.	Ŋ	107
1990	m	٠	4	æ	φ	٥	10	80	Ŋ	66	ന	Ŋ	7	-3	7	7	7	7	ıń .	101
1989	m	•	4	7	∞	vo	10	œ	Ŋ	6	ന	١	7	4	4	4	. 4			25
1988	m	9	4	Γ~	œ	9	0.	60	ن م	6	m 	Ś	7	4	4					68
1987	m	4	7	Γ~.	∞	9	10	ας	so	<u>.</u>	m	ن	7	4	4					87
1986	<u>က</u>	4	7	P ***	20	v	02	% 0	'n	lЛ	m	'n	7							75
SUBSTATION NAME	. ANG THONG I	2. ANG THONG 2	3. AYUTTAYA 1	4. BANG KHAN	5. Ban mai	6. BAN PA IN	7. PRACHIN BURI	8. PATHUM THANI	9. SARABURI 1	10. SARABURI 2	11. SARABURI 3	12. SARABURI 4	13. THALAN	14. THANYA BURI	15. WATTHANA NAKBON	16. PRAPHUTTHASAT	17. NAKHONNAYOK	18. AYUTTHAYA 2	19. NAVANAKHON	TOTAL

ANNEX 5-2-8					H.V.		FEEDER EXPANSION PLAN	PLAN C2	•					(TOS LINIT)	
			-		•										
NO. SUBSTATION NAME	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
1. AO PHAI	7	2	۲۵	2	4	7	4	7	4	4	4	-7	4	4	4
2. BAN BUNG	'n.	2	Ŋ	٥.		7	7		7	7	7	^	_	_	7
3. BANG LAMUNG	00	89	8	ဆ	σ,	ç,	on.	on.	on.	3 ^	6	σ	6	ø	σ
4. CHON BURI	60	8	ω	80	· 01	O.	6	Ø.	σ,	65	σ,	on.	6	Ø1	Ø.
5. CHACHOENGSAO	7	7	٨	7.	7		_		80	©	00	∞	œ	60	∞
6. CHANTHABURI	.	,	^	7		<u> </u>	7	10	21	01	70	10	01	10	30
7. KLAENG	. د	'n	Ŋ	'n	'n	Ŋ	20	'n	ĽΛ	'n	Ŋ	٤,	٠,	Ŋ	Ю
8. RAYONG 1	'n	ī	'n	σ	6	თ	đ	ø	ø	æ	61	o	6	6	6
9. RAYONG 2	2	2	7	2	2	2	2	6	2	~1	27	2	7	7	7
10. RAYONG 3	4	4	80	ω	10	10	10	10	10	10	01	01	01	10	2
11. SRIRACHA	ហ	ر م	3	'n	iv	'n	٧n	Ŋ	ري د	, vn	'n	'n	ſ	ı۸	Ŋ
12. TRAT		ব	4	4	4	4	4	4	4	4	4	4	4	4	7
13. PHANOM SARAKHAM			-24		~1	4	4	4	4	4	4	4	4	4	4
14. PHANUTNIKHOM						4	4	4	4	4	4	7	4	4	4
15.															
16.															
17												,			
0															
19.															
TOTAL	58	62	99	20	82	88	86	68	06	06	06	8	06	0,6	06

(UNIT: cct)		1999 2000	æ	σΛ		ı,	<u></u>	α ο	10 10	9	9	9	10 10	4						85 88 88
Ę		1998	ര	σ.	7	'n	ō,	∞	01	9	yo	9	10	4						88
		1997	øo.	Ø1	~	'n	6	œ	10	9	9	40	10	4						88
		1996	ω3	6	_	ın	ω,	80	10	φ.	vo	,	01	4		1043				87
		1995	∞	6		5	ω	®	10	9	v o	9	01	4						87
		1994	6 0	6	7	٠,	7	∞	10	10	10	. 40	01	4		· ·		 		98
FEEDER EXPANSION PLAN C3		1993	ω	σ ₁	۷	ν,	7	©	10	9	9	90	10	4						86
EXPANSIO		1992	60	5	^	٠,	. ~	∞	91	9	9	vo.	01	4	·			 		86
V. FEEDER		1991	· 60	<u>б</u>	7	۱sh	~	∞	01	9	9	**	9	4				 		80
H.V.	24	1990	∞	φ	7	vi	7	∞	10	•	ý	4	'0	4			·	 	 	80
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		1988	~	o,	7	ήJ	~	∞	10	.	v.	4								69
		1987		, on	^	v	7	æ	2	.		4		<u> </u>						69
		1986	7	6	7	'n	9	ø 9	10	•	\$	4	-					 ·	·	67
ANNEX 5-2-9		SUBSTATION NAME	BANG PONG 1	2. BANG PONG 2	3. KANCHANA BURI	4. KAMPHAENG SAEN	5. NAKHON CHAISI	6. SAM PHRAN 1	7. SAMUT SAKHON 1	8. SAMUT SAKHON 2	9. SUPHAN BURI	10. THAMUANG	SAM PHRAN 2	12. DOEMBANG NANGBUAT			2			TOTAL

NO. SUBSTATION NAME 1986 1987 1988 1989 1. CHA AM 5 5 5 5 5 5 5 2. CHUM PHON 5	1990 1990 5 5 5 6 6 6 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 1992 3 4 3 4 4 3	1993 5 5	1994 19	1995 1996	1997	1998	1 000
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BURI 4 4 4 KHIRI 3 3 3 I 4 4 4 I 4 4 4 RI 1 4 4 4 RI 2 2 2 2 NGKHRAM 4 4 4 4	0 m 4 m 4 0	9 m 4 m 4		Ŋ	·S	· vn	۷.	ΙΛÌ
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RI 1 4 4 4 4 4 RI 2 2 2 2 2 2 NGKHRAM 4 4 4 4	e 4 2	£ 4	-4	4	4	4	4	4
RI 1 4 4 4 4 4 RI 2 2 2 2 2 NGKHRAM 4 4 4 4	4 6	4	m	m	С	m	m	ന
RI 2 2 2 2 NGKHRAM 4 4 4 4	2		7	4	4	4	7	4
MGKHRAM 4 4 4 4	_	2	2	۸	2 2	7	Ν.	7
10. Hill HTN	4	4	4	7	4	4	4	4
	***	7	-4	7	4	4	4	4
11. THAPSAKAE		4		4	7	4	4	4
12. LANG SUAN	**	4	4	4	4	4	7	4
13.				·				
14				<u></u>				
15.	· · · · · · · · · · · · · · · · · · ·					A		
17.						-# .		
186.					<i>-</i>			
•61					·			
TOTAL 34 34 34 34 34	36 48	48	87	84	48 48	87	87	48

ANNEX 5-2-11					H	7. FEEDER	H.V. FEEDER EXPANSION PLAN	N PLAN S2	•				5 :	(UNIT: cct)	÷
NO. SUBSTATION NAME	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
1. CHIEW LAN	-	el	ř-t	.	-		, ma			pred	-M	-	H	~	·
2. KRABI	7	8	2	7	64	2	7	7	7	2	2	6	74	N	
3. KHANOM	٦	F	7	7	٦	-	**	-	7	-1	r-t	r-4	2	7	·
4. LANPOORA	4	7	3	7	-7	-3	4	4	4	7	4	4	'n	40	
5. NAKHON SI THAMMARAT	9	છ	v	9	٠,	9	90.	9	Ó	9	vo	9	9	ø	
6. PHANGNGA	7	77	2	2	ო	m	m	m	m	m	en.	т	m	m	
7. PHUKET 1	^			L ~	~		7	7	~		_		_	7	
8. PHUKET 2	۳.	m	m	m	m	, W	m	m	m	ĸ	n	4	4	4	
9. PHUNPHIN	3	4	4	4	4	٧.	ហ	9	vo	40		7	80	00	
10. TAKUA PA	2	2	2	2	m	ю	m	'n	'n	m	የጓ	М	m	m	
11. THUNG SONG	<u>_</u>	m	m	ന	١/١	5	'n	Ŋ	'n	Ŋ	'n	٧n	'n	ιΛ	
12. SURAT THANI				4	4	4	4	4	4	4	4	7	4	4	
13.															
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15.															
16.															
17.												******			
18.															
19.															
TOTAL	35	35	35	39	67	44	77	45	45	45	95	47	50	20	·
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ANNEX

H.V. FEEDER EXPANSION PLAN S3

(UNIT: cct)

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2000	·	&>	т	9	4	m	on	ن م	01	4	4						· ·		**************************************	57
1999	. mt	∞	m	vo	. 4	* 6 4	O\	່ ທ	10	4	4									57
1998	e-4	80	m	vo	~4	m	Ó	'n	10	-4	4						***************************************		. '	57
1997	· +-4	∞	m	٠	4 7	m		٧,	01	4	4							v <i>a</i>		57
1996		∞	m	9	-4	m	σ,	5	10	4	4									57
1995	· =4		en	9	-7	m	•		10	4	4						· · · · · · · · · · · · · · · · · · ·			54
1994	-	σ,	m	9	-3	m	9	'n	10	4	4		:							5.4
1993		90	ю	9	-3	٣	9	ıΛ	~	4	7									51
1992	. =4	∞,	æ	9	-#	٣	٧	27	7	4	. 4									5.0
1661		α,	m	vo	4	м	<u>.</u> س	'n	~	4	4					· .				83
1990		œ	m	۰,	4	е	ν,	'n	~	4										97
1989		8	ö	4	- 5	m	٧	5	Δï	4			V.							42
1988		80	m	4	4	m	٧,	¥Λ	'n	7										42
1987	,	∞	. ന	4	4	m	'n	'n	Vn	4	-					,				42
9861		03	ന	4	4	m	۲	ر.							-					33
SUBSTATION NAME	1. BANG LANG	2. HAT YAI 1	3. HAT YAI 2	4. NARATHIWAT	5. PHATTHALUNG	SADAO	7. SONG KHLA	8. YALA	9. PATTANI	10. SATUN	11. KANOT									TOTAL
2	-:	2.	m.	4		9	7.	∞	6	10.		12.	13.	14.	15.		17.	85	19.	

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335.4 20 336.4 20 478.4 20 478.4 20 478.4 20 478.4 20 478.4 20 478.4 15 100.0 15 100.0 15 200.0 15 240.1 15 100.1 15 178.0 15 200.0 15 240.0 15 240.0 15 240.0 15 240.0 15 240.0 15 240.0 15 240.0 15 240.0 15 240.0 15 240.0 15 240.0 15 240.0 15 240.0 15 260.0 15 260.0 15 260.0 15 260.0 15 260.0 15 260.0 15 260.0 15 260.0 15 260.0 15 260.0 15 260.0 15 260.0 15 260.0 15 260.0 16 260.0 16 260.0 16 260.0 16 260.0 16 260.0 16 26	cct		Energy (GWh)	cct	COWh)	cct	Energy (GWh)	cet	Energy (GWh)	cct	Energy (GWh)	cct	Energy (GWh)	cct	Energy (GWh)	cct	Energy (GWh)	cct	Energy (GWh)	cct	Energy (GWh)
461.8 15 145.8 15 165.0 15 178.0 15 178.0 15 198.4 15 240.0 15 241.7 15 146.8 15 160.7 15 178.0 15 178.0 15 178.0 15 178.0 15 240.1 15 234.6 15 589.1 15 160.2 15 178.0 16 178.0 18 173.9 8 173.9 8 184.3 10 266.3 49.6 5 46.8 4 93.5 4 100.4 8 152.5 5 114.0 8 115.2 12 114.2 114.0 8 115.2 12 114.2 11 114.0 <td< td=""><th>50</th><td>- 7</td><td>335.9</td><td>70</td><td>356.4</td><td>20</td><td>386.8</td><td>50</td><td>428.4</td><td>20</td><td>474.5</td><td>20</td><td>529.1</td><td>20</td><td>586.5</td><td>20</td><td>644.5</td><td>20</td><td>701.5</td><td>20</td><td>759.9</td></td<>	50	- 7	335.9	70	356.4	20	386.8	50	428.4	20	474.5	20	529.1	20	586.5	20	644.5	20	701.5	20	759.9
461.8 35 499.1 35 589.1 35 682.5 35 772.5 35 806.5 35 589.1 35 589.1 35 682.5 35 589.1 35 589.1 35 589.1 35 680.2 35 36 </td <th></th> <td>ν</td> <td>125.9</td> <td>15</td> <td>133.7</td> <td>27</td> <td>145.8</td> <td>2.</td> <td>160.7</td> <td>15</td> <td>178.0</td> <td>15</td> <td>198.4</td> <td>15</td> <td>220.0</td> <td>5</td> <td>241.7</td> <td>15</td> <td>263.1</td> <td>15</td> <td>285.0</td>		ν	125.9	15	133.7	27	145.8	2.	160.7	15	178.0	15	198.4	15	220.0	5	241.7	15	263.1	15	285.0
49.6 4 93.5 4 100.4 8 152.6 8 163.3 8 173.9 8 184.3 10 60.8 49.6 5 54.2 5 62.8 12 114.5 12 122.5 12 130.4 12 130.4 12 130.4 12 130.4 12 134.1 130.4 12 130.4 12 130.4 12 134.1 12 130.4 12 134.1 130.4 13 134.1 130.4 12 134.1 130.4 14 324.2 12 130.4 14 324.2 14 324.2 14 324.2 14 324.2 14 324.2 14 324.2 14 324.2 14 324.2 14 324.2 14 324.2 14 324.2 14 324.2 14 324.2 14 324.2 14 324.2 14 324.2 14 324.2 14 324.2 14 324.2	.,,	55	461.8	35	490.1	35	534.6	35	589.1	35	652.5	35	727.5	35	806.5	35	886.2	35	964.6	35	1,044.9
49.6 5 54.2 5 58.5 5 62.8 11 114.5 12 122.5 12 130.4 12 138.3 13 134.1 129.0 9 141.0 9 152.0 9 165.1 267.1 20 285.8 20 304.3 20 322.6 23 40 340.4 14 334.9 14 354.6		4	79.4	4	86.8	7	93.5	4	100.4	æ	152.6	∞	163.3	ω	173.9	∞	184.3	01	206.3	10	216.8
124.6 6 141.0 9 152.0 9 163.2 267.1 20 285.8 20 304.3 20 304.3 20 322.6 23 304.4 14 334.9 14 334.6 14 374.0 14 334.9 14 334.6 14 374.0 14 334.6 14 374.0 14 334.6 14 374.0 14 334.6 14 374.0 14 334.6 14 374.0 14 334.6 14 374.0 14 334.6 14 374.0 14 334.6 14 374.0 14 334.6 14 374.0 14 334.6 14 374.0 14 374.0 14 334.6 14 374.0 14 374.0 14 374.0 14 374.0 14 374.0 14 374.0 14 374.0 14 374.0 14 374.0 14 374.0 14 374.0 14 374.0 14		Ŋ	9.69	2	54.2	5	58.5	7.	62.8	7	114.5	12	122.5	13	130.4	12	138.3	E	134.1	ñ	141.0
124.5 6 138.0 6 139.7 10 266.8 10 284.4 14 334.9 14 334.6 14 374.0 14 334.9 14 334.9 14 334.9 14 334.9 14 334.9 14 334.9 14 334.9 14 334.0 14 334.9 14 334.0 14 334.1 34 641.1 36 281.0 281.0 281.0 28 540.3 34 574.1 34 641.1 34 64 34 641.1 34 641.1 34 64 </td <th></th> <td>σ,</td> <td>129.0</td> <td>65</td> <td>141.0</td> <td>ō</td> <td>152.0</td> <td>0,</td> <td>163.2</td> <td>20</td> <td>267.1</td> <td>20</td> <td>285.8</td> <td>20</td> <td>304.3</td> <td>20</td> <td>322.6</td> <td>23</td> <td>340.4</td> <td>23</td> <td>357.8</td>		σ,	129.0	65	141.0	ō	152.0	0,	163.2	20	267.1	20	285.8	20	304.3	20	322.6	23	340.4	23	357.8
124.4 12 138.0 12 139.6 18 240.2 18 255.9 20 239.2 20 253.2 20 267.1 34 607.8 34 607.8 34 607.8 34 607.8 34 607.1 34 607.8 34 607.8 34 607.8 34 611.1 34 617.4 34 617.1 34 617.1 34 617.4 34 617.1 34 617.1 34 617.4 34 617.1 34 61		9	124.5	9	138.0	9	139.7	10	266.8	10	284.4	1.4	334.9	7.	354.6	14	374.0	14	393.4	14	412.4
248.9 18 276.0 18 540.3 34 574.1 34 670.8 34 671.1 34 671.1 34 671.2 34 671.1 34 671.1 34 671.1 34 671.1 34 671.1 34 671.1 34 671.1 34 671.1 34 671.1 34 671.1 370.		12	124.4	12	138.0	12	139.6	18	240.2	န္	255,9	20	239.2	20	253.2	50	267.1	20	281.0	20	294.5
106.9 8 220.7 8 238.2 8 256.1 10 300.4 10 320.6 10 340.7 10 360.1 10 379.0 80.1 12 165.5 12 178.7 12 192.1 12 192.4 12 204.4 12 216.1 12 227.4 187.0 20 386.2 20 416.9 20 448.2 22 480.6 22 513.0 22 545.1 22 576.2 2 606.4 76.8 4 90.0 6 109.1 6 120.9 6 133.3 6 146.1 6 187.5 6 187.5 6 187.5 6 187.5 6 187.5 6 187.5 1 187.5 1 187.5 1 187.5 1 187.5 1 187.5 1 187.5 1 187.5 1 187.5 1 187.5 1 1 187.5	·	18	248.9	80	276.0	82	279.3	28	507.0	28	540.3	34	574.1	34	8.109	34	641.1	34	674.4	34	706.9
80.1 12 165.5 12 178.7 12 180.2 12 192.4 12 204.4 16 111.1 10 111.1 10 111.1 10 112.1 10 114.5 10 144.5 10 144.5 10 144.5 10 144.5 10 144.5 10 144.5 10 144.5 10 144.5 10 144.7 10 111.1 10 111		4	106.9	80	220.7	8	238.2	8	256.1	10	300.4	16	320.6	10	340.7	10	360.1	10	379.0	10	397.1
187.0 20 386.2 20 416.9 20 448.2 22 480.6 22 513.0 22 545.1 22 545.1 22 566.4 76.8 4 90.0 6 109.1 6 120.9 6 133.3 6 146.1 6 159.6 6 187.5 6 187.5 6 187.5 6 187.5 6 187.5 6 187.5 6 187.5 6 187.5 6 187.5 6 187.5 6 187.5 6 187.5 6 187.5 6 187.5 6 187.5 6 187.5 6 187.5 6 187.5 6 187.5 7 187.5 7 187.5 7 187.5 18 187.5 18 188.4 18 188.4 18 333.5 18 348.2 186.3 18 2254.8 18 226.4 18 286.5 18 318.4 18		9	80.1	12	165.5	12	178.7	12	192.1	12	180,2	12	192.4	12	204.4	12	216.1	12	227.4	12	238.2
76.8 4 90.0 6 120.9 6 133.3 6 146.1 6 159.6 6 173.3 6 146.1 6 159.6 6 173.3 6 146.1 6 150.6 1 76.8 8 89.9 10 91.0 10 100.7 10 111.1 10 121.8 10 144.5 10 156.2 153.6 12 179.9 16 200.1 16 221.6 16 244.4 16 267.9 16 292.6 16 317.8 16 343.7 196.3 8 226.4 8 240.3 8 254.7 8 268.9 8 283.0 8 396.5 8 309.5 220.9 18 239.3 18 270.4 18 286.5 18 318.4 18 333.5 18 348.2 417.2 26 452.1 26 481.2 26 571.2		30	187.0	20	386.2	20	416.9	20	448.2	22	. 480.6	22	513.0	22	545.1	22	576.2	22	606.4	22	635.3
76.8 8 89.9 10 91.0 10 111.1 10 121.8 10 133.0 10 144.5 10 156.2 153.6 12 179.9 16 200.1 16 221.6 16 244.4 16 267.9 16 292.6 16 317.8 16 343.7 196.3 8 226.4 8 240.3 8 254.7 8 268.9 8 296.5 8 309.5 220.9 18 239.3 18 254.8 18 286.5 18 302.6 18 318.4 18 348.2 417.2 26 452.1 26 481.2 26 510.7 26 541.2 26 571.5 26 601.4 26 630.0 26 657.7		4	76.8	4	0.06	9	1.601	9	120.9	vo	133,3	9	146.1	9	159.6	9	173.3	9	.187.5	80	219.3
153.6 12 179.9 16 200.1 16 221.6 16 244.4 16 267.9 16 292.6 16 317.8 16 343.7 196.3 8 212.8 8 226.4 8 254.7 8 268.9 8 283.0 8 296.5 8 309.5 220.9 18 239.3 18 270.4 18 286.5 18 318.4 18 333.5 18 348.2 417.2 26 452.1 26 481.2 26 510.7 26 541.2 26 571.5 26 601.4 26 630.0 26 657.7	-	83	76.8	80	6.68	10	91.0	0.	100.7	10	1111.1	10	121.8	0.	133.0	01	144.5	01	156.2	FI	150.7
196.3 8 212.8 8 226.4 8 240.3 8 254.7 8 268.9 8 283.0 8 296.5 8 309.5 220.9 18 239.3 18 254.8 18 286.5 18 302.6 18 318.4 18 348.2 417.2 26 452.1 26 481.2 26 510.7 26 541.2 26 571.5 26 601.4 26 630.0 26 657.7		12	153.6	12	179.9	9.	200.1	91	221.6	91	244.4	16	267.9	16	292.6	16	317.8	91	343.7	19	370.0
220.9 18 239.3 18 254.8 18 270.4 18 286.5 18 302.6 18 318.4 18 348.2 417.2 26 452.1 26 481.2 26 510.7 26 541.2 26 571.5 26 601.4 26 630.0 26 657.7		æ	196.3	8	212.8	ω.	226.4	80	240.3	80	254.7	80	268.9	æ	283.0	0 0	296.5	8	309.5	∞	321.8
417.2 26 452.1 26 481.2 26 510.7 26 541.2 26 571.5 26 601.4 26 630.0 26 657.7		18	220.9		239.3	18	254.8	18	270.4	8	286.5	18	302.6	8	318.4	81	333.5	81	348.2	81	362.0
		26	417.2	26	452.1	26	481.2	26	510.7	26	541.2	26	571.5	26	601.4	26	630.0	26	657.7	26	683.8

	Energy (GWh)	2,225.8	1,205.7	3,431.5	941.8	6.979	,618.7	1,699.3	1,062.0	2,761.3	587.3	314.6	901.9	275.8	206.8	482.6	347.9	319.0	666.9
1995	Cot	36 2,	39 1,	75 3,	35	23	39 I.	32 1,	40 1:	72 2,	14	15	29	80	12	20	9	=======================================	17
7	ergy Sah.)		1,157.3	3,293.8	904.4	650.1	,554.5	1,613.9	983,4	2,597.3	552.2	295.8	848.0	262.3	196.7	459.0	324.2	297.2	621.4
1994	EQ CC C	36 2,	39 1,	75 3,	91	23	39 1,	32 1,	39	71 2,	14	15.	53	- 60	12	20	vo	11	17
3	18 E		1,111,1	3,162.3	868.0	623.9	491.9	1,513.6	922.4	2,436.0	517.5	277.2	7.94.7	248.7	186.5	435.2	301.4	276.2	577 &
1993	CCT	36 2,	39 1	75 3	16	23	. 6£	32 1	66	71 2	14	2.5	29	80	12	50	9		<u>, , , , , , , , , , , , , , , , , , , </u>
1992	ergy GWh)	1,966.9	1,670.2	3,037.1	832.8	5.865	1,431.3	1,415.8	862.8	2,278.6	483.4	258.9	742.3	243.7	167.6	411.3	292.3	243.5	535.8
2	cct	34	37	7.1	92	23	39	32	39	7.1	14	15	29	80	=	<u>م</u>	Q	01	91
1661	Energy (GWh)	1,886.3	1,031.6	2,917.9	798.7	574.0	1,372.7	1,279.4	845.3	2,124.7	450.2	241.2	691.4	229.6	157.9	387.5	270.3	225.3	9.567
	cct	32	35	67	16	23	39	28	37	9	14	15	29	8	=	1.9	ý	2	4
1990	Energy (GWh)	1,811.9	6.066	2,802.8	792.0	6 267	1,289.9	1,189.8	786.1	1,975.9	313.4	254.7	568.1	224.0	140.0	364.0	249.5	208.0	5 257
	CCL	32	35	29	16	23	98	28	37	65	00	13	21	80	10	18	9	0.7	``
636	Energy (GWh)	1,650.2	884.0	2,534.2	785.4	441.8	1,227.2	1,103.6	729.2	1,832.8	253.1	274.2	527.3	209.8	131.1	340.9	230.0	191.6	4 1 6
	CCE	28	30	88	19	18	, a4	28	37	65	9	13	19	80	10	18	9	10	9
1988	Energy (GWb)	1,563.6	837.6	2,401.2	485.0	277.2	762.2	1,051.8	6 47 3	1,699.1	234.6	254.1	488.7	89.4	67.1	156.5	211.5	176.2	387 7
	300	28	30	28	771	16	30	26	32	58	0	13	6	4	φ.	10	٠٠	10	· 4
1987	Energy (GWh)	1,209.1	697.5	1,906.6	6.894	201.0	6.699	973.0	598.8	1,571.8	188.3	204.0	392.3	84.1	63.0	147.1	192.5	160.5	353.0
	cct	56	30	56	14	12	. 26	26	32	58	9	. 13	19	77	٠	10	9	10	9
1986	Energy (GWh)	1,038.0	613.4	1,651.4	401.7	172.2	573.9	919.7	548.3	1,468.0	170.2	184.3	354.5	77.0	57.8	134.8	186.8	155.7	5 676
	cct	22	56	88	14	12	26	26	~	57	9	13	19	4	•	10	9	10	4
	L	45	SRC B	F	⋖	м	ـــــــــــــــــــــــــــــــــــــ	4	ра	⊱	≪	m	H	4	, A	Œ	₹	æ	ŀ
	Region	ATA, ATB	SRB	BKA, BMA PQA	APA PT 4	. 21	naa, kab, kac	KCA	BPA, BPB	SAA, SAB	REA, RBB	PBA	CAA HUA PNA	PKA, PKB	PPA SNA		HYA, HYB	SLA	

ANNEX 5-4

INSTALLATION STATUS OF RECLOSERS

					· - · · · · ·			····	: 						
	Total	No. of units	34	37	33	72	59	42	22	24	13	26	22	30	420
	Branch Line	No. of units	r -1 r-1	=		9	10	m	7	6	10	σ,	m	က	68
	Sub-total	No. of units	23	26	26	99	67	39	2	5	σ	1.7	19	27	331
	nS	No. of feeders	12	19	16	28	27	23	10	13	7	12	14	12	193
Main Line	or more/ ler	No. of units	19	13	19	55	33	28	on '	m	7	σ	10	21	223
TIEM	2 units or more feeder	No. of feeders	8	9	6	17		12	7	H	2	4	'n	9	85
	lit/feeder	No. of units	7	13	7	11	16		90 .	12	Ŋ	∞	on.		108
	l unit	No. of feeders	7	13	7		16	11	9	12	'n	60	δ.	ø	108
	Region		N1	N2	N3	NE1	NE2	NE3	C1	C2	3	SI	\$2	83	Total

ANNEX 5-5-1

REQUIRED NUMBER OF SECTIONALIZERS (1994)

	No. of	No. of	No. of feeder	feeders with reclosers	No. of	f sectionalizers	lizers
a contraction	Interconnected	Radial	1 unit on	2 units or more	Case 1	Case 2	Case 3
region	feeders	feeders	main line	on main line	+	11	1-
	Å	В	D	D	1 C - D	- C - D	- C - 2D
N	20	39	4	∞	57.	77	108
N2	10	87	13	9	77	54	96
N3	14	97	7	0	51	65	102
NE1	10	85	e-1 e-1	17	45	55	96
NE2	ý	41	16	11	23	29	59
NE3	∞	26	디	12	45	53	76
CI	36	79	9	4	123	159	234
C2	91	74	12	pred	85	101	174
83	32	54	3	. 2	95	127	179
SI	14	34	80	7	67	57	87
S 2	∞	37	6	·	35	43	75
83	9	48	9	9	45	51	93
Total	180	614	108	85	691	871	1,400

ANNEX 5-5-2

REQUIRED NUMBER OF SECTIONALIZERS (2000)

Γ		8										···				
lizers	Case 3	**	-c-2D	118	102	102	116	92	76	236	174	183	87	87	66	1,477
of sectionalizers	Case 2	1	- C - D	82	57	.59	65	40	53	160	101	129	57	67	54	912
No. o	Case 1	1.5A + B	Q - D -	62	47	51	55	32	45	124	85	26	43	41	48	730
with reclosers	units or more		Q	\oint{\oint}	9	σ	7.7	11	12	7	r-4	2	4	5	\$	85
No. of feeders	****	main line	υ	4	E H		H	16	1.1	9	12	'n	80	6	9	108
No. of	a	feeders	В	44	51	46	68	47	56	80	74	56	34	43	12.	650
No. of	Interconnected	feeders	Å	20	10	14	01	8	8	36	91	32	14	80	\Q	182
	i d	region		NI	N2	N3	NE1	NE2	NE3	5	62	C3	SI	s2	83	Total

ANNEX 5-6-1

UNITS NO. OF 102 Ġ Ö CASE CASE CASE CIRCUIT BREAKER REGION N3 BANG MUN NAK NAKHON SAWAN LOP BURI 1 LOP BURI 2 CHAI BADAN SING BURI TAKHLI 2 SECTIONA-PHECHABUN SALOKBAT RECLOSER MANOROM THATAKO LOMSAK LIZER FACILITIES TO BE SUPERVISORY CONTROLLED (1994) NO. OF UNITS 8 4 96 44 37 CASE 1 CASE CASE CIRCUIT BREAKER KAMPHAENG PHET PHITSANULOK 1 REGION N2 SAWAN KHALOK PHITSANULOK SUKHO THAI UTTARADIT SECTIONA-RECLOSER MAE SOT PHICHIT SIRIKIT PHARE LIZER IAK NAN UNITS NO. OF 108 59 57 17 34 CASE 1 CASE CASE CIRCUIT BREAKER REGION N1 CHIANG MAI 1 CHIANG MAI 2 CHIANG MAI 3 CHOM THONG SECTIONA-LIZER LAM PANG 2 CHIANG RAI LAMPHUN 1 LAMPHUN 2 LAM PANG 1 MAE NGAT RECLOSER PHAYAO THOEN TOTAL 4. 5. 6. 7. 8. 8. 9. 111. 113. 16. S S

9

65

51

33

FACILITIES TO BE SUPERVISORY CONTROLLED (1994)

ANNEX 5-6-2

NO. OF UNITS	10 10 10 10 10 10 10 10 10 10 10 10 10 1	79	45	53	26	42
NE3	M HASIMA 1 HASIMA 2	BREAKER	CASE 1	CASE 2	CASE 3	
REGION	BURI RAM CHAIYA DHUM NAKHON RACHASIMA NAKHON RACHASIMA PAK CHONG PHON SHIKHIU SURIN PHIMAI PRAKHONCHAI	CIRCUIT BE		SECTIONA- LIZER		RECLOSER
		L	1			
NO. OF UNITS	4 6 2 6 7 4 6 6 6 4	47	23	29	59	59
NE2	HAM ATHANI 1 DEN	EAKER	CASE 1	CASE 2	CASE 3	
REGION NE2	KALASIN MAHA SARAKHAM MUKDAHAN ROIET SIRINDHON SISAKET SOMDET UBON RATCHATHANI YASOTHON AMNAT CHARDEN	CIRCUIT BREAKER		SECTIONA- LIZER		RECLOSER
						·
NO. OF UNITS	νωσωαναανασασα	89	45	55	96	72
NE1	1 NOM ON M 1 1 2 2	EAKER	CASE 1	CASE 2	CASE 3	
REGION NEI	CHUN PHAE KHON KHAEN 1 LOEI NAKHON PHANOM NAM PHONG NONG KHAI PHANG KHON SAKON NAKHON THAT PHANOM UDON THANI 1 UDON THANI 2 BUNG KAN KHON KHAEN 2 BUNG KAN KHON KHAEN 2	CIRCUIT BREAKER		SECTIONA- LIZER		RECLOSER
NO.	1.2. 4.3. 7. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.		.	TOTAL		<u> </u>

FACILITIES TO BE SUPERVISORY CONTROLLED (1994)

ANNEX 5-6-3

																		~~~		 r					ጉ
NO. OF UNITS	<b>©</b>	σı	7	Ŋ	7		10	9	<b>9</b>	9	10	7								86	95	127	179	19	
C3	r	2	URI	SAEN	ISI	-4	ON 1	ON 2	H		2	ANGBUAT								BREAKER	CASE 1	CASE 2	CASE 3		
REGION	BANG PONG	BANG PONG	KANCHANA BURI	KAMPHAENG SAEN	NAKEON CHAISI	SAM PHRAN 1	SAMUT SAKHON	SAMUT SAKHON	SUPHAN BURI	THAMUANG	SAM PHRAN 2	DOEMBANG NANGBUAT								CIRCUIT BR		SECTIONA- LIZER	: 1	RECLOSER	
L						<del></del>														 L	L			-	
NO. OF UNITS	7	~	6	Ø.	00	10	'n	6	7	10	Ŋ	7	4	4						06	85	101	174	24	
C2			· ·		9								SARAKHAM	MC						BREAKER	CASE 1	CASE 2	CASE 3		Ŧ
REGION	AO PHAI	BAN BUNG	BANG LAMUNG	CHON BURI	CHACHOENGSAO	CHANTHABURI	KI.AENG	RAYONG 1	RAYONG 2	RAYONG 3	SRIRACHA	TRAT	PHANOM SAR	PHANUTNIKHOM						CIRCUIT BR		SECTIONA-		RECLOSER	
											-														
NO, OF UNITS	, m	φ	7	∞	œ	9	10	Ø	ø	ማ	ო	Ŋ	2	ω	7	4	4	4	'n	115	123	159	234	22	***************************************
CI		2					RI	NI						H	AKHON	BAT	K	2		EAKER	CASE 1	CASE 2	CASE 3		
REGION CI	ANG THONG	ANG THONG	AYUTTHAYA	BANG KHAN	BAN MAI	BAN PA IN	PRACHIN BURI	PATHUM THANI	SARABURI I	SARABURI 2	SARABURI 3	SARABURI 4	THALAN	THANYA BURI	WATTHANA NAKHON	PRAPHUTTHABAT	NAKHONNAYOK	AYUTTHAYA 2	NAVANAKHON	CIRCUIT BREAKER		SECTIONA- LIZER		RECLOSER	
NO.	ř	2°	က်	4.	'n	. 0	7.	œ.	்	10.	i.	12.	13.	14.	15.	16.	17.	18	19.		<u></u>	TOTAL			

ANNEX 5-6-4 FACILITIES TO BE SUPERVISORY CONTROLLED (1994)

NO. OF UNITS 45 54 Š 93 39 ന CASE CASE CASE CIRCUIT BREAKER REGION S3 PHATTHALUNG NARATHIWAT HAT YAI 1 HAT YAI 2 SECTIONA-LIZER BANG LANG SONG KHLA RECLOSER PATTANI SADAO SATUN YALA NO. OF UNITS 45 43 75 35 NAKHON SI THAMMARAT CASE CASE CASE CIRCUIT BREAKER REGION S2 SURAT THANI THUNG SONG SECTIONA-LIZER CHIEW LAN PHUKET 1
PHUKET 2 PHANGNGA TAKUA PA LAMPOORA PHUNPHIN RECLOSER KHANOM KRABI NO. OF UNITS 43 84 26 48 57 PRACHOAPKHIRI KHAN CASE CASE CASE SAMUT SONGKHRAM CIRCUIT BREAKER REGION SI PHETCHA BURI RATCHABURI 2 RATCHABURI 1 CHA AM CHUM PHON SECTIONA-LIZER THAPSAKAE LANG SUAN PRAN BURI HUA HIN RECLOSER RANONG TOTAL . 02

ANNEX 5-7-1

ESTIMATED DATA QUANTITIES TO BE TRANSMITTED NI (2000)

	1	TOTAL	-	1 1	=	 43	01	21			7.7	~~~		1 2	41	 							652	62		82	118		88
	-													••••		 						-		 	1	O		+	
	TOCAL	CONTROL	,	••••		,	r-4			-	7~1	,4	,-										12						
-	Re. Ry	LOCK	,	* ;	न न	-4	10	2	00	ιń	4	~	٠,	0 0	7		-						99						34
STATUS INDICATION	G.R	DELAY		· ;		4	10	7	00	'n	4	^	~	. ~	4								79						
TATUS I	G	INST.	. 7	• :	4.4	4	10	~	00	'n	4	7	ď	~ ~	4								79						
S	OCR	DELAY	ç	1 6	7	12	30	0	24	5	12	21	0	0	12	 							192			:			
	ŏ	INST.	-	1 0	2	12	9	9	54	15	12	21	0	0	12								192						
	aao) wo	ON/OFF			<b>-</b>	₹	10	7	- 00	اد.	4	7		2 (	4								99	62		82	118		34
	100	10141	,,	1 (	0	22	55	13	42	28	22	38	17	17	22	 							353						
[m]	TOT TOTA	VOLIAGE	c	Ji	^	7	ທ	m	7	(M)	~	m	·	. ~	7								33			-			
MEASURED VALUE	REACTIVE	POWER	*	•	17	7	01	7	8	٠٧١	4	7	٠,	1 (4	4								99						
	ACTIVE	POWER	,	• :	77	4	10	2	1 00	ľ	***	7	çv	1 (4	4						•		99			· ·			
	THURSTAN	CORRENT	<u>-</u>	1 6	2	12	30	9	24	15	12	21	σ	, 9	12								192			-			
40	NO. OF	UNLIS	7	+ -	-	-	10	7	· 90	<b>ኒ</b> ኅ	-4		Ç.	1 CV	4	٠							79	62		82	118		34
	:	12 S/S	<u>*</u>								ښين						•							CASE 1		CASE 2	CASE 3		
	SUBSTATION		CUTANC WAT	Control of	Z. CRIANG MAL. Z	3. CHIANG MAI 3	4. CHIANG RAI	5. LAMPHUN 1	6. LAMPHUN 2	7. LAM PANG 1	8. LAM PANG 2	9. PHAYAO	Ī			14.	15.	16.	17.	18.	19.		CIRCUIT BREAKER			SECTIONALIZER	•	1	RECLOSER

ANNEX 5-7-2

ESTIMATED DATA QUANTITIES TO BE TRANSMITTED N2 (2000)

	1 2000	TOTAL	248988216444	622	47	57	102	74
	LOCAL	CONTROL	and	12				
25	ļ	LOCK	N4000Nm04044	6).				37
STATUS INDICATION	G.R	DELAY	N4000N-04044	61				
STATUS I	9	INST.	<b>い4のののい≒の4</b> 044	61				
	OCR	DELAY	22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	183				
	0	INST.	11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	183				
	ago) No	ON/OFF	<b>心ፋወ</b> 布ወಬ⊣ი4 <i>春</i> 44	61	<i>L</i> 7	25	102	37
	W. C. L. L.	10125	55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	336	·	L		
E	DO F TOU	VOLIAGE		31				
MEASURED VALUE	REACTIVE	POWER	N4808N-04044	61				
	ACTIVE	POWER	<b>∿</b> 4∞∞∞√-∞4044	61				
	TIMO COLL	CUKKERI	2228828222	183				
90	NO. OF	CTING	N48000N~04044	61	25	. 57	102	37
		12 S/S	E 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		CASE 1	CASE 2	CASE 3	
	SUBSTATION		1. KAMPHAENG PHET 2. NAN 3. PHARE 4. PHICHIT 5. PHITSANULOK 1 6. PHITSANULOK 2 7. SIRIKIT 8. SUKHO THAI 9. TAK 10. UTARADIT 11. SAWAN KHALOK 12. MAE SOT 13. 14. 15. 16. 17. 18.	CIRCUIT BREAKER		SECTIONALIZER		RECLOSER

ANNEX 5-7-3

ESTIMATED DATA QUANTITIES TO BE TRANSMITTED N3 (2000)

		40 0%		Σ	MEASURED VALUE	JE					STATUS INDICATION	DICATION			
SUBSTATION	Z	SULTAIL	CIRPENIT	ACTIVE	REACTIVE	TO TOU	TOTAL	330/ NO	OCR	R	G.R	22	Re. Ry	LOCAL	TATE OF
	12 S/S	CTTNO	COMMENT	POWER	POWER	TOWTHO!	70703	ON/OFF	INSI.	DELAY	INST.	DELAY	LOCK	CONTROL	TWINT
									!						
1. LOP BURI I		_	21		_	4	39	_	21	21		7	7	end	7.1
2. LOP BURE 2		9	18	9	9	2	32	9	81	18	9	ف	9	æ	61
3. MANOROM		4	12	4	7	ന	23	4	12	12	4	7	4	<del></del> 4	7.5
4. NAKHON SAWAN	×	01	30	10	10	60	53	10	30	30	10	30	10	**1	101
5. PHECHABUN			21	7	_	2	37	7	21	21		7		~1	71
6. SING BURI		<u></u>	φ.	6	ო	7	11	n	6	o		c)	m	1	23
7. TAKHLI 2		m	6	E)	m	2	17	m	σ	6		m	<u>ر</u>	1	31
		4	12	4	4	2	22	4	12	12	4	47	4	<del></del> 1	7
		7	12	4	7	2	22	4	12	12	4	4	7		7.7
10. THATAKO		*	12	4	4	2	22	4	12	77	-3	4	4		41
		4	12	7	4	7	22	4	12	27	7	4	4	-	7.7
12. BANG MUN NAK	¥	4	12.	7	4	7	22	4	12	12	∢*	-4	4	#	41
13.		-													
14.	-		-									_			
													-		
16.													-		
17.													:		
× .														•	
									:	-					
CIRCUIT BREAKER		09	180	09	09	28	328	09	180	180	09	09	0.9	12	612
	CASE 1	51						5.1							51
SECTIONALIZER	CASE 2	65						65							65
												+			
	CASE 3	102						102							102
RECLOSER		33						33					33		99

ANNEX 5-7-4

ESTIMATED DATA QUANTITIES TO BE TRANSMITTED NEI (2009)

	TOTAT	TOTAL		1 5	5 6		4 4 7 4	<b>3</b> %	7	8	21	51	7	7		4				794	55	65	116	144	•
	LOCAL	CONTROL			•				•	1 F		PM	~			<b>-</b>				14					
	Re. Ry	LOCK	u	1 0	, d		<b>1</b> 4	o 1~	- 4	- 00	2	'n	7	4,	۰ ص	<b>3</b>				78				72	
STATUS INDICATION	G.R	DELAY	ŭ	10			2 4	0 ^	- <3	00	2	'n	^	4	•	3				78					_
STATUS IN		INST.	u	0	9 07		<b>1</b> 4	۰ ۲	. 43	- 00	7	'n	_	77 '	•	4				78					_
	OCR	DELAY	2	1 %	2 6		n o	2.5	12	24	9	51	21	12	× •	7.7				234					
		INSL	ý	, ,			, 0	- F	22	24	9	51	21	12	<u>α</u> :	71				234					_
	ON /OFF	ON/OFF	v	1 9	o o	٠.	י פ	۰ د	. 4	- ω	2	'n	7	٠	φ,	4				78	55	65	116	72	
	TOTAL	70101	œ.	) (°	8		- 0	2 %	22	42	12	27	38	22	35	77				424					-
8	VOLTACE	TOUTTO	C	) e	1 (	3 6	7 0	n «	۰ ۸	1 (4)	7	~1	M	7	010	N .				34					
MEASURED VALUE	REACTIVE	POWER	L.	ìα	,		n v	o r	- 7	σ.	7	เก	Γ~	<b>4</b>	φ.	₹				78					_
ME	ACTIVE	POWER	v	9	0		n 4	0 1-	. 4	- 00	2	vn	_	4,	•	₹				78					
	CIRRENT	TWENT	7.	2,7		C	٠ ٥	0 10	2	24	9	15	21	12	80 4	7.7				234					-
000	NO. OF	CTTATO	v	٠ ۵	) G		<b>1</b> v	0 1-	- 4	- 00	2	5	_	4	φ.	d.	- -			78	55	. 65	116	72	
		14 S/S				3	Ę			ju-					~						CASE 1	CASE 2	CASE 3		
	SUBSTATION		aynd Mias	VHON VHAFA	TOFT	MANAGE WORK	MAN DEOM				THAT PHANOM	UDON THANI			Ť.,	DAN FRAL				CIRCUIT BREAKER		SECTIONALIZER		RECLOSER	
	•		-		i er			ب ر	-	φ	ō	<u>o</u>	H	27	<u>.</u>	÷ .	16.	7.	. 6.	CIR		SEC		REC	

ANNEX 5-7-5

ESTIMATED DATA QUANTITIES TO BE TRANSMITTED NE2 (2000)

CASE 3 76 76 76 76 76 118
65

ANNEX 5-7-6

ESTIMATED DATA QUANTITIES TO BE TRANSMITTED NE3 (2000)

	ao ok			MEASURED VALUE	UE				S	STATUS INDICATION	DICATION	-		
	INTES	TWEGGILO		REACTIVE	WOT WACE	TOTA	Tao/No	OCR		G.R	R	١.	LOCAL	TOTO T
	CITNO	COMMENT	POWER	POWER	VOLINGE	TOTAL	ON/ OF F	INST.	DELAY	INST.	DELAY	LOCK	CONTROL	76707
									;					
	<b>20</b> 1	77	**	20	~	£,3	×0	24	74	×	00	œ	-	8
	٠ <u>٠</u>	2	'n	S .	m	28	ın ·	15	5	יחי	'n	'n	-	51
	2	30	01	10	7	. 25	2	30	30	10	70	10	-1	101
	10	30	9	10	m	53	10	30	30	01	10	10	p=1	101
	9	18	9	9	m	33	9	18	18	v	9	yo :		61
	<b>9</b>	18	9	9	m	33	9	18	18	9	9	9		19
	9	18	9	9	2	32	9	18	. 82	9	9	9	per)	19
	5	15.	'n	5	m	28	ιΛ	15	15	5	'n	'n	·	5
	7	12	4	4	7	22	7	12	12	7	4	7	em!	7.7
	4	12	7	7	7	22	4	12	12	7	4	4	y==1	41
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									<del></del>					
-4														
	64	192	64	79	28	348	64	192	192	64	64	64	10	650
	45						45							45
+	53						53							53
										7				
	76						6		-	_				46
	42						4.2					42		84
									-					

ANNEX 5-7-7

ESTIMATED DATA QUANTITIES TO BE TRANSMITTED C1 (2000)

		200		M	MEASURED VALUE	31				S	STATUS INDICATION	DICATION			
SUBSTATION	2	NO. OF 1101 1101 1101 1101	TNAGGIN	ACTIVE	REACTIVE	2014 TOV	POTAT	ON /OPE	OCR	'R	G.R		Re. Ry	LOCAL	TOT 1
	19 S/S	C11410	CURRENT	POWER	POWER	VOL. LAGE	THYOT	ON/OFF	INST.	DELAY	INST.	DELAY	LOCK	CONTROL	דאיטד
										•					
1. ANG THONG 1		m	6	er)	m	7	17	ო	6	σ,	m	m	m	7	33
		9	81	9	9	ന	99	9	18	81	9	9	9	_	61
3. AYUTTHAYA 1		'n	15	'n	S	7	27	ហ	:2	'n	u'i	٠,	'n	244	51
4. BANG KHAN		80	24	80	83	en	43	∞	24	24	∞	00	œ	***	80
5. BAN MAI		83	24	00	8	<u>ب</u>	43	00	24	24	60	ω	∞	1-4	8
6. BAN PA IN		9	18	9	9	m	33	9	82	8	ø	9	ø	<b>+</b> 4	19
	leel	10	30	10	10	m	53	10	30	30	01	07	10	~	101
	н	83	24	∞	<b>00</b>	7	42	8	. 24	24	œ	∞	œ	<b>1</b>	. 18
	-	6.	27	on.	6	7	49	σ,	27	27	5	o	Ø)	<del></del> 4	5
10. SARABURI 2		ch.	2.7	on.	σ'n	4	67	ف	2.7	27	0	σ	o	<b>,</b>	5
11. SARABURI 3		'n	Ø.	m	m	7	17	m	9	ÓN	m	m	m	***	3:
		~	15	λ	kn	m	28	ς,	15	15	ν'n	Ś	Ŋ		5
13. THALAN			21	7	7	8	38	7	21	21	~	7	^	÷	7.1
14. THANYA BURI		œ	24	80	∞	ú	43	8	24	24	00	œ	00	<b>-</b> (	180
15. WATTHANA NAKHON	KHON	4	12	7	7	7	22	4	12	12	7	4	4	yuk	17
	AT	-4	17	4	4	7	22	4	12	12	-,	4	4	<b>,</b>	-1
17. NAKHONNAYOK		✓₹	12	4	7	2	22	4	13	12	4	7	4		77
18. AYUTTHAYA 2		4	12	4	4	. 7	22	4	12	12	4	7	4		41
19. NAVANAKHON			15	'n	10	2	27	٧,	15	15	Ŋ	Ŋ	'n	***	2
CIRCUIT BREAKER		1.16	348	116	116	50	630	116	348	348	116	116	116	19	1,179
	CASE 1	124						124							124
SECTIONALIZER	CASE 2	160						160					-		160
	CASE 3	236						236							236
RECLOSER		22		:				22					22		. 44
,				-											

ANNEX 5-7-8

ESTIMATED DATA QUANTITIES TO BE TRANSMITTED C2 (2000)

	LOCAL	CONTROL TOTAL			77	93	1 91	1 81	101	1 51	166	1 21	1 101	. 21	1 41	1 41	1 41		··		•	14 914	85	101	174	
-	Re. Ry		,	<b>3</b> † I		σ.	on	00	10	<u>.</u> نم	on.	7	10	۲ń ·	√7	4	4					06				
STATUS INDICATION	G.8	DELAY	,	<b>*</b> 1	_	on.	6	00	10	'n	σ,	8	01	Ŋ,	4	7	4					9.0				
STATUS I	9	INST.	,	3* 1	_	6	6	00	10	5	σ,	7	10	'n.	3	4	4					 96				
	OCR	DELAY	Š	71	21	27	27	24	9	15	27	9	20	<u></u>	12	12	17					270				
		INST.	-	71	71	27	27	24	30	15	27	9	30	51	12	12	12					270	ļ			
	and/ No	ON/OFF		đ (	<u>~</u> `	σ	ά	æ	10	የሳ	o,	7	01	<b>ن</b>	4	4	4					 90	85	101	174	4
	1,000	TOTAL		77	20	49	49	43	53	.27	67	12	54	28	22	22	22					490				
JE.	acturos.	VULIAGE	,	7	m	7	4	ന	ო	.2	4	7	4	ო	7	7	61					05				
HEASURED VALUE	REACTIVE	POWER		<b>3</b> (		61	φ'n	∞	10	5	o	. 2	10	in	4	4	4					06				
泵	ACTIVE	POWER		<b>3</b> 1	_	o	6	80	10	5	o,	2	10	ď	7	4	4		:			06				
	- CITO DENIE	CURRENT	:	7 7	7.7	27	27	24	30	15	27	9	8	15	12	12	12					270				
97	No. OF	ONITS		<b>†</b> 1	<b>.</b>	6	ō,	80	10	S	on.	2	10	'n	7	4	4			_=		06	85	101	174	
	z	14 S/S						0								KHAM	<b>≥</b>						CASE 1	CASE 2	CASE 3	
	SUBSTATION		3 1 200 2	I. AU FEAL	Z. BAN BUNG	3. BANG LAMUNG	4. CHON BURI	5. CHACHOENGSAO	6. CHANTHABURI		-	٠.			•		14. PHANUTNIKHOM	15.	• •	17.	0.0	CIRCUIT BREAKER		SECTIONALIZER		

ANNEX 5-7-9

(2000)

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ESTIMATED DATA QUANTITIES TO BE TRANSMITTED

TOTAL 129 183 892 6 LOCAL 7 Re.Ry LOCK 5 8 STATUS INDICATION DELAY 88 INST. 88 DELAY 264 24 27 27 27 27 27 27 27 27 30 30 30 30 30 INST. 264 ON/OFF 183 88 129 97 TOTAL 225 VOLTAGE 37 MEASURED VALUE
REACTIVE VO 88 80 60 60 60 60 4 ACTIVE POWER 88 89789898984 CURRENT 24 27 27 27 27 27 27 18 18 18 18 264 NO. OF UNITS 183 5 89779807498 88 129 6 BANG PONG 1
BANG PONG 2
KANCHANA BURI
KAMTHAENG SAEN
NAKHON CHAISI
SAM PHRAN 1
SAWUT SAKHON 1
SAWUT SAKHON 2
SUPHAN BURI
THAMUANG
SAM PHRAN 2
DOEMBANG NANGBUAT ጥ 12 S/S CASE CASE CASE SUBSTATION CIRCUIT BREAKER SECTIONALIZER RECLOSER 

38

ANNEX 5-7-1(

ESTIMATED DATA QUANTITIES TO BE TRANSMITTED

				型型	MEASURED VAIUE	E				S	STATUS INDICATION	DICATION	-		
SUBSTATION	NC	30. Or	The state of the s	ACTIVE	REACTIVE	10 km you	11,000	ano) No	OCR		G.R	25	Re. Ry	LOCAL	1
	12 5/5	CITNO	CUKKENI	POWER	POWER	VOLIAGE	TOTAL.	ON/OFF	INST.	DELAY	INST.	DELAY	LOCK	CONTROL.	TOTAL
L. CHA AM		'n	2.	'n	'n	m	28	'n	52	15	'n	'n	<u>۰</u>	r-4	21
2. CHUM PHON		'n	15	Ŋ	'n	7	27	Ŋ	2	15	'n	'n	Ŋ		21
3. PHETCHA BURI	ZI.	9	18	9	9	ښ ښ	33	9	18	18	9	9	9		19
4. PRACHOAPKHIRI KHAN	TRI KHAN	က	σ,	m	m	71	17	m	6	<u>o</u>	m	m	m	-	33
5. PRAN BUKI		7	12	4	4	7	22	7	12	12	7	7	4		41
6. RANONG		ო	σ	m	m	7	17	m	6	6	<u>ო</u>	m		H	33
7. RATCLABURI	ytes	4	12	4	7	(**)	23	7	12	12	7	4	7	_	4.1
8. RATCHABURI	2	C1	•	2	2	5	12	N	9	9	2	7	~ ~	. ~	21
9. SAMUT SONGKHRAM	CHRAM	•	12	4	1 - 7	7	22	1 4	12	17		4	4	P-1	77
NTH VIEW CE		7		~			- 60		-	- 2	7	- 7	· <	-	. 7
		f ~	4 5	<i>?</i> ⊲		10	100	<i>t</i> ×	7 .	7 6	r <	r 4	* *	4	1 5
		r ,	4 6		r ~	۱ ر	4 6	1.	7 6	1 5	• •			- +	9 -
12. LANG SUAN	٠	<b>.</b>	71	4	<b>4</b>	7	77	4	71	77	7	7	4	<b></b>	 3
13.				-								<b>-</b> ,			
14.												_	****		
15.											-			*****	
16.															
17.							•				•••		•		
18.							-								
19.												••••			
CIRCUIT BREAKER		87	144	847	48	27	267	48	144	144	87	848	87	12	492
	CASE 1	43						43	·				<u> </u>		43
SECTIONALIZER	CASE 2	57						57							57
	CASE 3	87					,	87							87
							†				+	-			
RECLOSER		26						56		.			26		52

ANNEX 5-7-11

ESTIMATED DATA QUANTITIES TO BE TRANSMITTED S2 (2000)

NO. OF CURRENT	CURRENT			MEASURED VALUE REACTIVE	VOLTAGE	TOTAL	ON/OFF	OCR	1	CATUS IND	STATUS INDICATION G.R	Re.Ry	LOCAL	TOTAL
+			POWER	POWER				INST.	DELAY	INST.	DELAY	LOCK	CONTROL	TOTAL STREET
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NAKHON SI THAMMARAT 6 18	82		9	vo	m	33	9	18	18	9	9	9		61
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-												-4		
51 153	153		51	51	27.	282	51	153	153	15	51	51	12	522
41							41							41
67							67							67
87		l					87							87
22							22					22		777
		i												

ANNEX 5-7-12

ESTIMATED DATA QUANTITIES TO BE TRANSMITTED S3 (2000)

