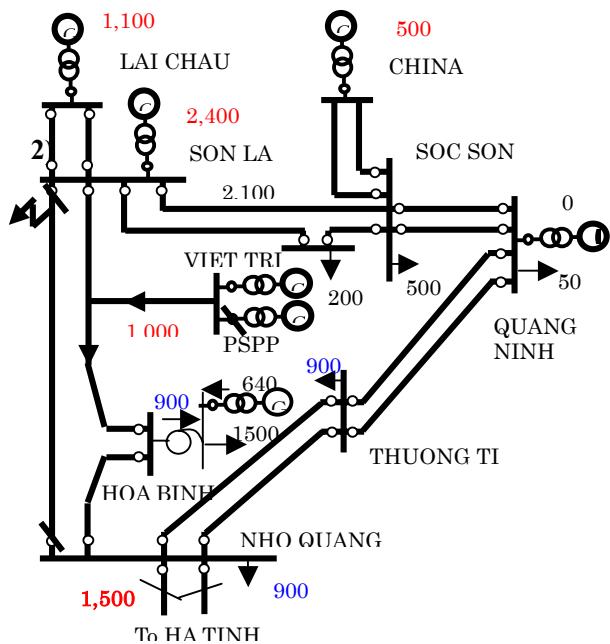


APPENDIX 6-2

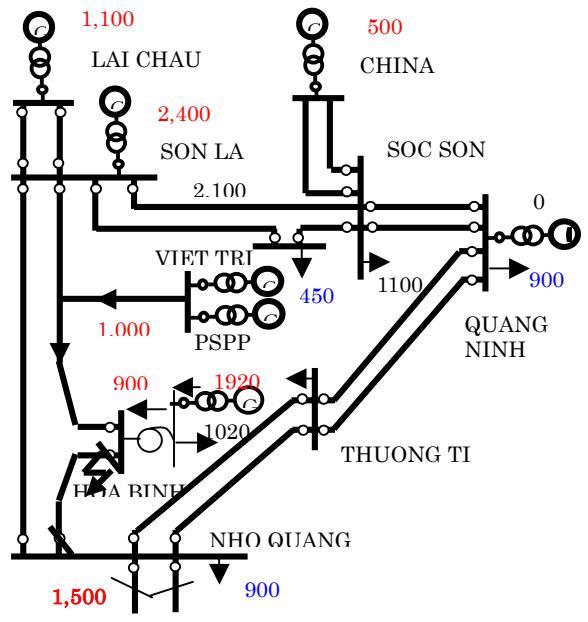
Results of transmission method for PSPP

Contents of the study of methods of power transmission of PSPP

1) Single circuit T-off from the section between Son La and Hoa Binh



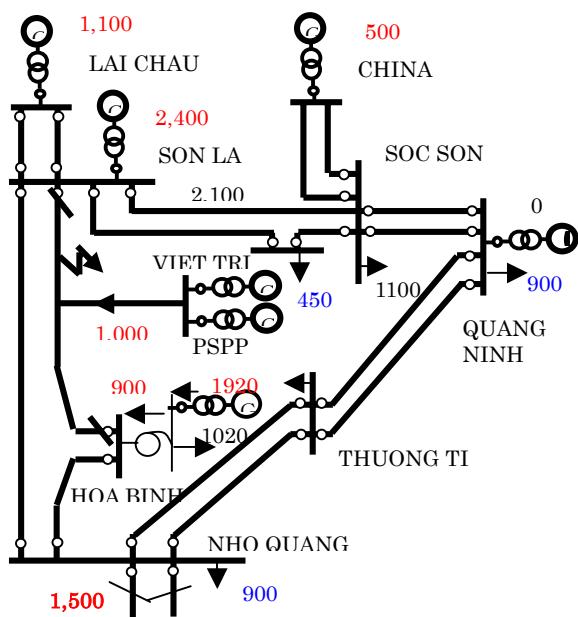
In case of a Son La - Nho Quang single circuit fault



In case of a Hoa Binh - Nho Quang single circuit fault

Stability	Unstable with generator stepping out Stable after remote generator shedding of 500MW PSPP
Power flow	Less than thermal capacity after remote generator shedding of 500 MW of PSPP

Stability	Unstable with generator stepping out Stable after remote generator shedding of 750MW PSPP
Power flow	Less than thermal capacity after remote generator shedding of 750 MW of PSPP

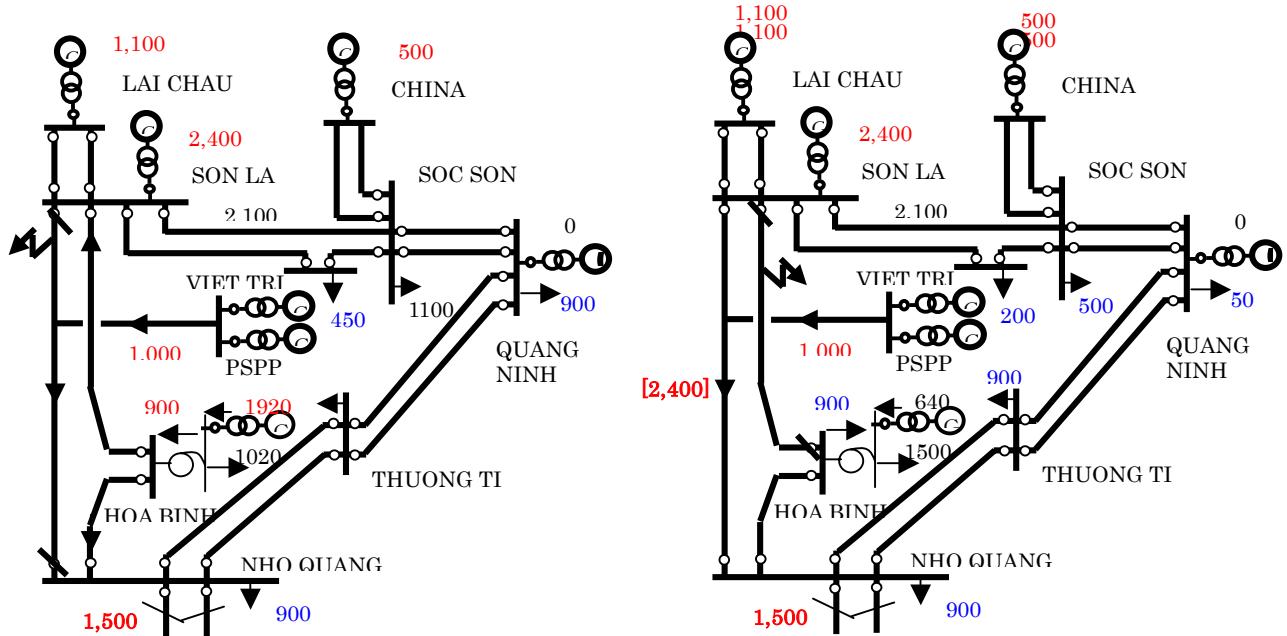


In case of a Son La - Hoa Binh single circuit fault

These cases do not meet the criteria because there is a need for remote generator shedding (200 ms) to maintain stability.

Stability	Stable after dropping of 1,000 MW of PSPP
Power flow	Less than thermal capacity after dropping of 1,000 MW of PSPP

2) Single circuit T-off from the section between Son La and Nho Quang

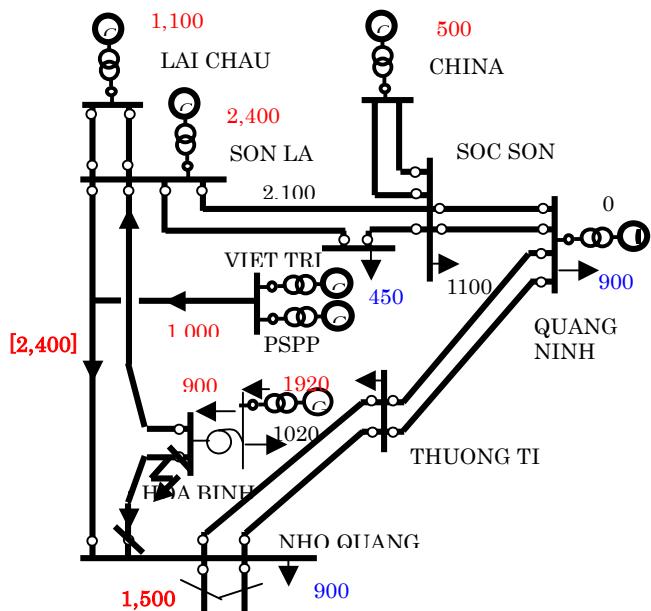


In case of a Son La - Nho Quang single circuit fault

Stability	Stable after dropping of 1,000 MW of PSPP
Power flow	Less than thermal capacity after dropping of 1,000 MW of PSPP

In case of a Son La – Hoa Binh single circuit fault

Stability	Stable
Power flow	More than thermal capacity between T-off point and Nho Quang Less than thermal capacity after depression of output of PSPP by 250 MW

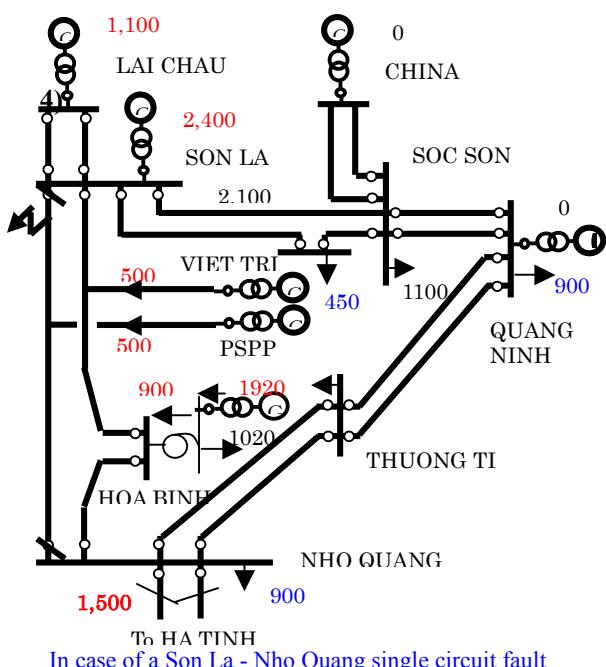


In case of a Hoa Binh - Nho Quang single circuit fault

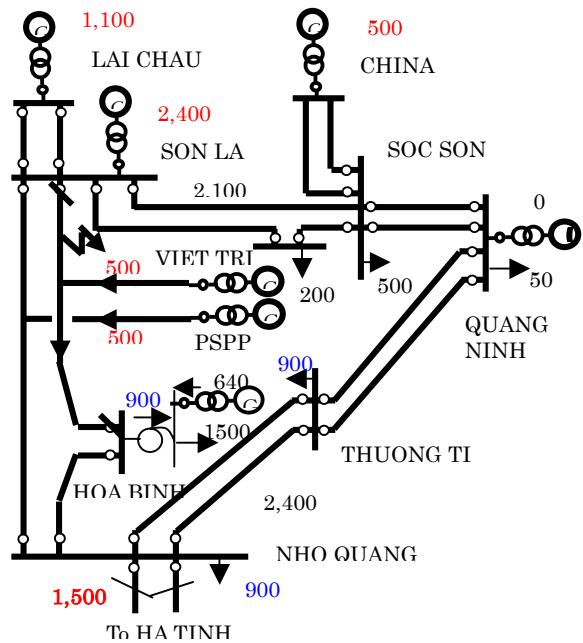
Stability	Stable
Power flow	More than thermal capacity between a switching station and Nho Quang Less than thermal capacity after depression of output of PSPP by 250 MW

These cases meet the criteria, if a dropping of 1,000 MW causes a frequency changes less than 1Hz.

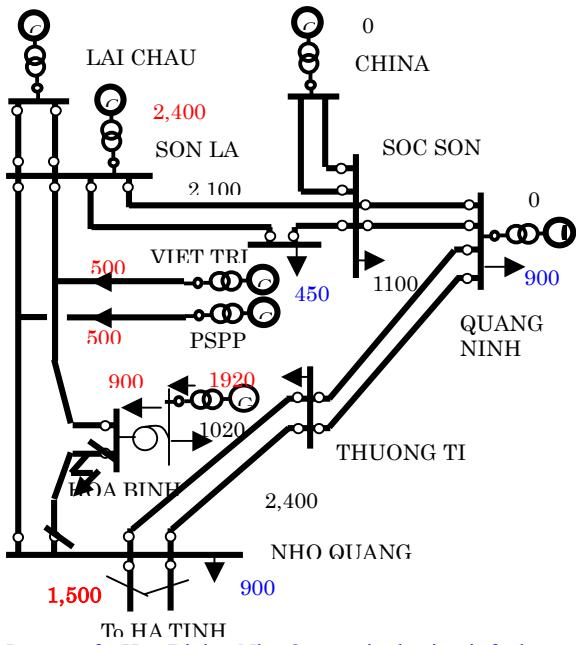
3) Unit transmission lines with double circuits



Stability	Stable after dropping of 500 MW of PSPP
Power flow	Less than thermal capacity after dropping of 500 MW of PSPP



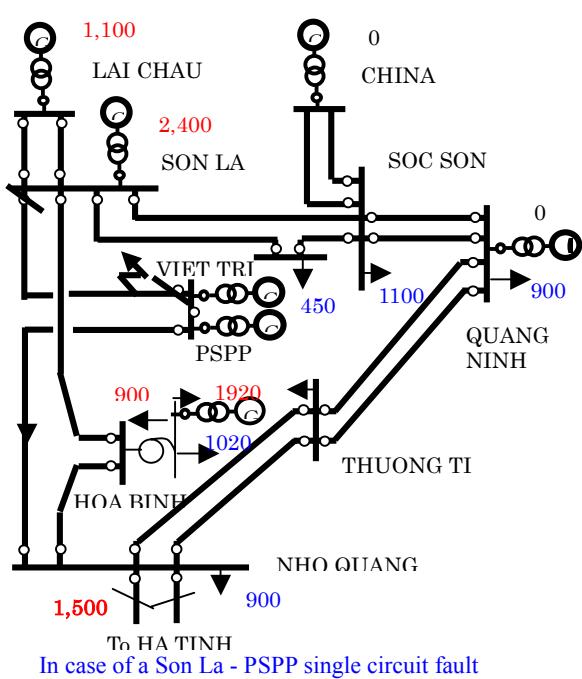
Stability	Stable after dropping of 500 MW of PSPP
Power flow	Less than thermal capacity after dropping of 500 MW of PSPP



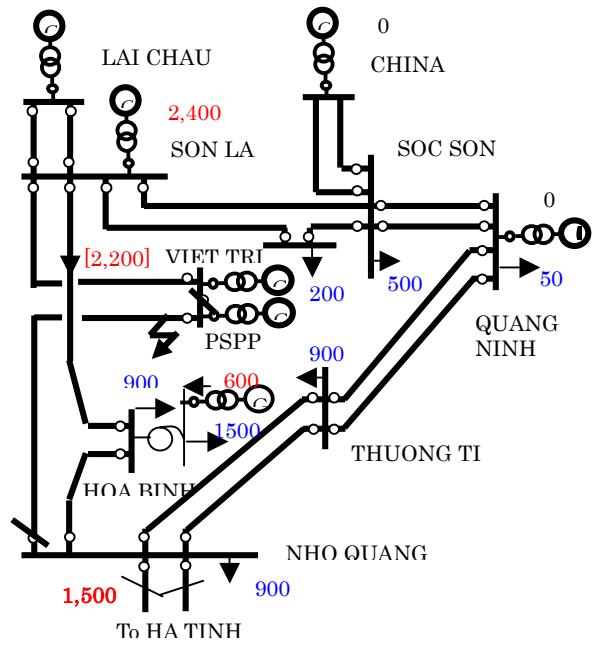
Stability	Unstable with generator stepping out Stable after remote generator shedding of 250 MW of PSPP
Power flow	Less than thermal capacity after remote generator shedding of 250 MW of PSPP

These cases do not meet the criteria because there is a need for remote generator shedding (200 ms) to maintain stability.

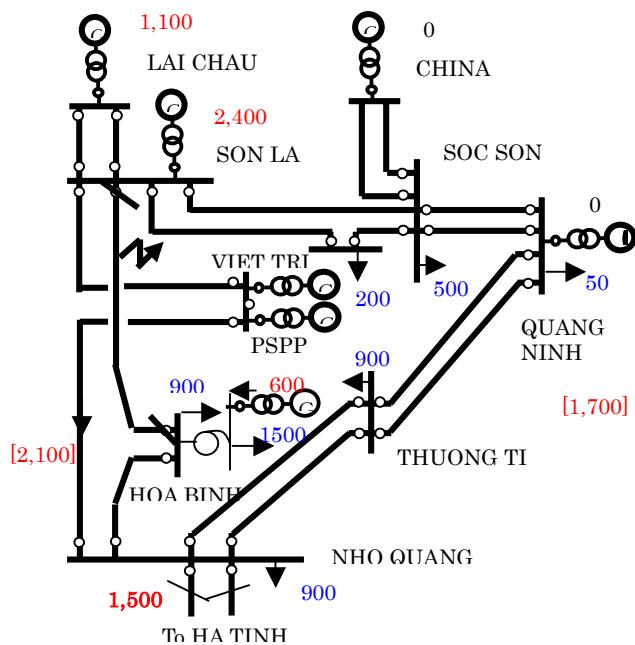
4) Son La, Nho Quang, and PSPP connected. Bus bars installed at PSPP



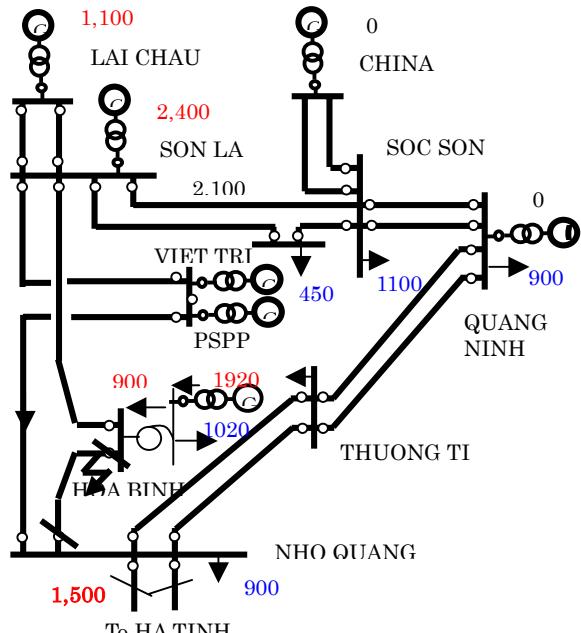
Stability	Stable
Power flow	Less than thermal capacity



Stability	Stable after opening a circuit breaker for bus connection and dropping 500 MW of PSPP
Power flow	Less than thermal capacity



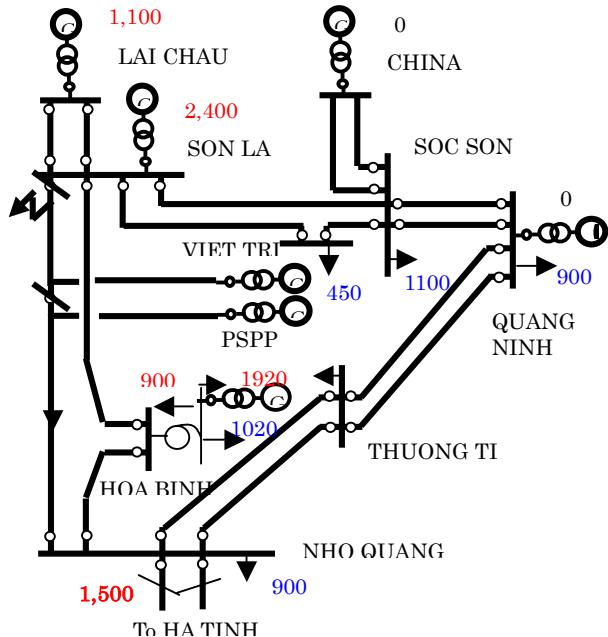
Stability	Stable
Power flow	Less than thermal capacity



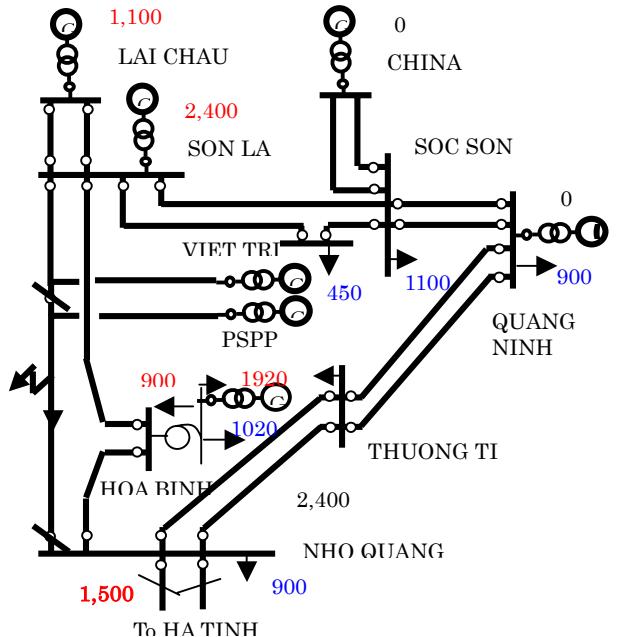
Stability	Stable
Power flow	Less than thermal capacity

These cases meet the criteria.

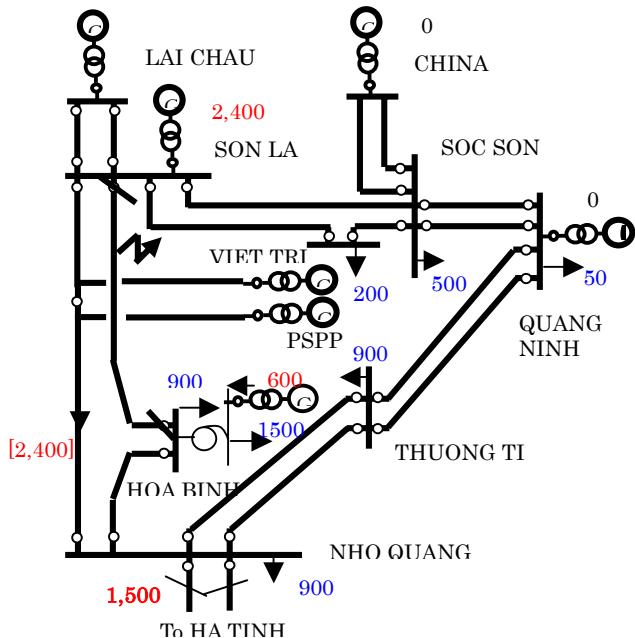
5) A switching station installed between Son La and Nho Quang. A T/L from switching station with double circuits.



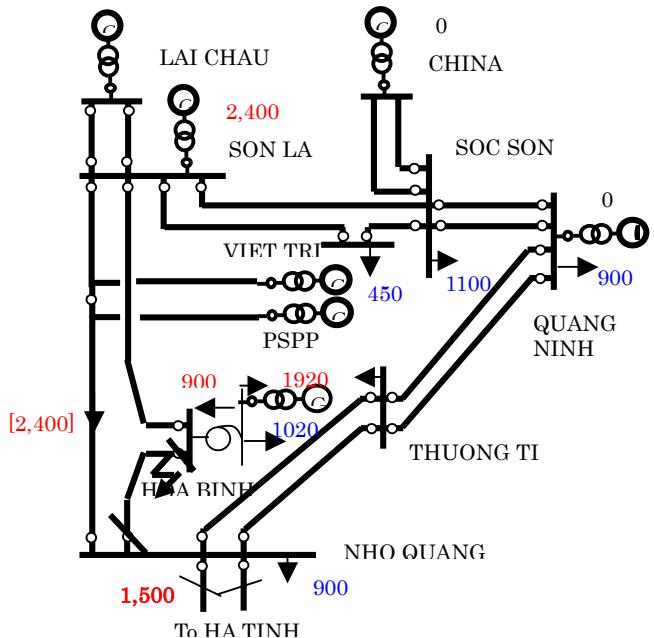
Stability	Stable after dropping of 500 MW of PSPP
Power flow	Less than thermal capacity after dropping of 500 MW of PSPP



Stability	Stable after dropping of 500 MW of PSPP
Power flow	Less than thermal capacity after dropping of 500 MW of PSPP



Stability	Stable
Power flow	More than thermal capacity between a switching station and Nho Quang Less than thermal capacity after depression of output of PSPP by 250 MW



Stability	Stable
Power flow	More than thermal capacity between a switching station and Nho Quang Less than thermal capacity after depression of output of PSPP by 250 MW

These cases meet the criteria.

APPENDIX 7-1-1

Investment statement of power sector in Vietnam (Revised No.5thM/P)

Investment Statement of Power Sector in Vietnam based on Revised No.5th M/P

(Unit : million USD)

I	Power Plants	Installed Capacity (mW)	Construction Cost (mln USD)	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Northern Region																					
Hydro		3,585		79	320	510	482	508	539	582	718	484	678	602	740	744	405	351	48	0	
EVN	Tuyen Quang (Na Hang)	342	487	34	127	146	78	97													
EVN	Ban Mai (Ban La)	300	376	4	26	98	113	60	75												
EVN	Ban Chat	200	344		3	24	89	103	55	69											
EVN	Huoi Quang	540	548			5	38	142	164	88	110										
EVN	Hua Na	195	225			2	16	58	67	36	45										
EVN	Son La	2,400	2,462	49	74	74	148	246	271	320	246	246	246	246	295						
EVN	Ban Uon	250	207							2	14	54	62	33	41						
EVN	Lai Chau	1,100	1,430							29	43	143	215	286	215	286	215				
EVN	Bac Me	280	442								4	31	115	133	71	88					
BOO	Ngoi Bo	20	35	7	9	10	7														
BOO	Ngoi Phat	35	61	12	16	18	12														
BOO	Nhan Hac & Ban Coc	32	56	11	15	17	11														
BOO	Coc San-Chu Linh	70	102	3	20	27	30	20													
BOO	Na Le	90	131	4	26	35	39	26													
BOO	Thac Moi	53	77	2	15	21	23	15													
BOO	Cua Dat	97	211	2	15	55	63	34	42												
BOO	Nam Mu	11	19	1	4	5	6	4													
BOO	Song Hieu	5	9	0	2	2	3	2													
BOO	Nam Chien	140	182					2	13	47	55	29	36								
EVN	PSPP 1	400	400						8	12	28	40	48	60	60	48	48	48	0	0	
Thermal		4,800		105	337	576	657	614	435	360	515	416	158	305	427	164	0	0	0	0	
UB Ext 1		300	300	27	168	105															
UB Ext 2		300	300				27	168	105												
Hai Phong 1 JV		300	330	30	185	116															
Hai Phong 2 JV		300	330		30	185	116														
Ninh Binh Ex.		300	330		30	185	116														
Quang Ninh 1 JV		300	330		30	185	116														
Quang Ninh 2 JV		300	330		30	185	116														
Quang Ninh 3 JV		300	330		30	185	116														
Quang Ninh 4 JV		300	330		30	185	116														
Nghi Son 1		300	330				30	185	116												
Nghi Son 2		300	330				30	185	116												
Mong Duong 1		500	469													42	263	164			
Mong Duong 2		500	469													42	263	164			
Na Duong BOO		100	120	67	42																
Cao Ngan BOO		100	120	11	67	42															
Cam Pha BOO		300	330	30	185	116															
Subtotal				184	657	1,086	1,140	1,122	974	942	1,233	900	836	907	1,167	908	405	351	48	0	
Central Region																					
Hydro		3,512		142	301	513	628	570	475	499	265	346	146	132	106	59	48	104	76	41	
EVN	Se San 3	260	333	29	40	117	92													51	
EVN	A Vuong	170	209	15	54	63	33	42													
EVN	Dak Drinh	107	174	12	45	52	28	35													
EVN	Quang Tri(Rao Quan)	70	122	9	32	37	19	24													
EVN	Buon Cuop	280	306	3	21	79	92	49	61												
EVN	Plei Krong	110	198	2	14	51	59	32	40												
EVN	An Khe-Ka Nak JV	163	184	2	13	48	55	29	37												
EVN	Buon Tua Srah	85	123	1	9	32	37	20	25												
EVN	Song Tranh 2	135	192	2	13	50	58	31	38												
EVN	Serepolk 3 JV	180	247	2	17	64	74	39	49												
EVN	Song Ba Ha	250	281		3	20	73	84	45	56											
EVN	Song Con 2	70	102		1	7	26	30	16	20											
EVN	Upper Kontum	220	278		3	19	72	83	44	56											
EVN	Dak Mi 4	210	254		3	18	66	76	41	51											
EVN	Se San 4	330	365		4	26	95	109	58	73											
EVN	Song Bung 4	200	286		3	20	74	86	46	57											
EVN	Song Bung 2	126	189																		

Generation Energy Statement of Power Sector in Vietnam based on Revised Mo.5th M/P

(UNIT : GWh)

Norm/Year	com. Year	CS	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
NORTH																					
DEMAND			15467	17451	19680	21842	24233	26915	29923	33339	36114	39130	42408	45972	49787	53333	57132	61208	65652	70350	
POWER PRODUCTION			31097	15658	15548	15786	18114	23235	29387	34617	37500	40629	44534	48998	52753	58900	63891	65927	70151	73091	74308
Hydro + Import			31097	8481	8481	8481	8627	9652	11779	13111	13366	14086	16721	19915	23027	25582	28675	30712	33539	35248	36465
Thac Ba	1972	414	414	414	414	414	414	414	414	414	414	414	414	414	414	414	414	414	414	414	
Hoa Binh	1992	8067	8067	8067	8067	8067	8067	8067	8067	8067	9304	9304	9304	9304	9304	9304	9304	9304	9304	9304	
T. Quang (N.H.)	2007	1296	0	0	0	0	0	432	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296	
Ngoi Bo + Nghi Phat	2006	266	0	0	0	0	89	266	266	266	266	266	266	266	266	266	266	266	266	266	
Nhan Hac & Ban Coc	2006	174	0	0	0	0	58	174	174	174	174	174	174	174	174	174	174	174	174	174	
Thac Muoi	2007	207	0	0	0	0	0	69	207	207	207	207	207	207	207	207	207	207	207	207	
Chu Linh - Coc San	2007	280	0	0	0	0	93	280	280	280	280	280	280	280	280	280	280	280	280	280	
Na Le	2007	410	0	0	0	0	137	410	410	410	410	410	410	410	410	410	410	410	410	410	
Ban La	2008	1055	0	0	0	0	0	352	1055	1055	1055	1055	1055	1055	1055	1055	1055	1055	1055	1055	
Cua Dat	2008	391	0	0	0	0	0	130	391	391	391	391	391	391	391	391	391	391	391	391	
Nam Mu & Song Hieu	2008	118	0	0	0	0	0	39	118	118	118	118	118	118	118	118	118	118	118	118	
Ban Chat	2010	766	0	0	0	0	0	0	0	255	766	766	766	766	766	766	766	766	766	766	
Huoi Quang	2011	1256	0	0	0	0	0	0	0	0	209	837	1256	1256	1256	1256	1256	1256	1256	1256	
Son La	2012	7689	0	0	0	0	0	0	0	0	320	1602	3524	5767	7689	7689	7689	7689	7689	7689	
Hua Na	2012	697	0	0	0	0	0	0	0	0	232	697	697	697	697	697	697	697	697	697	
Nam Chien	2012	651	0	0	0	0	0	0	0	0	217	651	651	651	651	651	651	651	651	651	
Bac Quang	2021	489	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ban Uon	2015	938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lai Chau	2016	3681	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bac Me	2017	995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bac Muc	2021	833	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Thac Cai	2021	425	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PSPP	2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-68	-204	-272	-408	-408	
Import			0	0	0	0	0	0	145	434	434	434	434	434	434	434	434	434	434	434	
 THERMAL																					
Pha Lai 1	440	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927	
Uong Bi	100	523	416	382	101	181	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ninh Binh	100	523	416	382	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pha Lai 2	2002	600	4205	4205	3679	3679	3679	3679	3679	3679	3679	3679	3679	3679	3679	3679	3679	3679	3679	3679	
Uong Bi extension 1	2005	300	0	0	307	1840	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	
Uong Bi extension 2	2008	300	0	0	0	0	0	307	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	
Ninh Binh extension	2007	300	0	0	0	0	0	307	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	
Hai Phong 1	2006	300	0	0	0	0	307	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840		
Hai Phong 2	2007	300	0	0	0	0	0	307	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	
Quang Ninh 1	2008	300	0	0	0	0	0	307	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	
Quang Ninh 2	2009	300	0	0	0	0	0	0	307	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	
Quang Ninh 3	2011	300	0	0	0	0	0	0	0	307	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	
Quang Ninh 4	2012	300	0	0	0	0	0	0	0	0	307	2102	1840	1840	1840	1840	1840	1840	1840	1840	
Nghi Son 1	2010	300	0	0	0	0	0	0	0	0	307	2102	1840	1840	1840	1840	1840	1840	1840	1840	
Nghi Son 2	2011	300	0	0	0	0	0	0	0	0	307	1840	1840	1840	1840	1840	1840	1840	1840	1840	
Cam Pha TPP	2006	300	0	0	0	0	307	1840	1840	1840	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	
Na Duong	2004	100	0	102	526	613	701	701	701	701	701	701	701	701	701	701	701	701	701	701	
Cao Ngan	2005	100	0	0	102	613	701	701	701	701	701	701	701	701	701	701	701	701	701	701	
Mong Duong 1	2014	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Mong Duong 2	2015	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Balance GWh		191	-1903	-3894	-3728	-998	2472	4694	4161	4515	5404	6590	6781	9113	10558	8795	8943	7439	3958	3958	
CENTRE																					
DEMAND			4124	4815	5642	6391	7250	8237	9373	10686	11631	12669	13802	15041	16394	17599	18915	20330	21877	23517	
POWER PRODUCTION			19599	4194	4059	4263	5284	7016	8579	10729	13371	15314	17437	19197	21433	22203	23215	23743	23843	23843	
Hydro + Import			19599	5163	5350	5350	5662	6680	7665	7665	9365	9365	9365	9365	9365	9365	9365	10534	11213	12855	
Vinh Son	1994	201	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	
Song Hin	1999	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	350	
Yaly	2001	3643	3643	3643	3643	3643	3643	3643	3643	3643	3643	3643	3643	3643	3643	3643	3643	3643	3643	3643	
Se San3	2005	1225	0	0	204	817	1225	1225	1225	1225	1225	1225	1225	1225	1225	1225	1225	1225	1225	1225	
Se San 3A	2006	475	0	0	0	0	158	475	475	475	475	475	475	475	475	475	475	475	475	475	
Small hydro power 1,2,3	2006	500	0	0	0	0	167	500	500	500	500	500	500	500	500	500	500	500	500	500	
Duong Vuong	2007	760	0	0	0	0	0	253	760	760	760	760	760	760	760	760	760	760	760	760	
Rao Quan	2007	265	0	0	0	0	0	88	265	265	265	265									

Operation & Maintenance Cost Statement of EVN based on JICA Team

Unit : million USD

Total O & M Cost (million USD)			2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hydro		Capacity (MW)	48.4	48.4	48.4	49.7	49.7	54.6	58.1	59.2	76.6	115.2	115.2	116.2	119.2	124.7	126.7	134.2	141.7	
Thac Ba	1972	108	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	
Hoa Binh	1992	1,920	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	
T.Quang (N.H.)	2007	342						1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
Ban La	2008	300							1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Ban Chat	2010	200								3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
Huoi Quang	2011	540									8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	
Son La	2012	2,400										36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
Hua Na	2012	195										1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Ban Uon	2015	250														1.3	1.3	1.3	1.3	
Lai Chau	2016	1,100														5.5	5.5	5.5	5.5	
Bac Me	2017	280															1.4	1.4	1.4	
PSPP(North)	2018	1,500															7.5	15.0		
Vinh Son	1994	66	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Song Hin	1999	70	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Yaly	2001	720	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	
Se San3	2005	260					1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
A Vuong	2007	170						0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	
Rao Quan	2007	70						0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Dak Drinh	2007	107						0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Plei Krong	2008	110							0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
Buon Kuop	2008	280							1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	
Song Tranh2	2009	135							0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
BuonTua Srah	2009	85							0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Song Con 2	2010	70								0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Ha Song Ba	2011	250									1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
Thuong Kon Tum	2011	220									1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
Dak My 4	2011	210									1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
Se San4	2012	330										1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
Song Bung 4	2014	200												1.0	1.0	1.0	1.0	1.0	1.0	
Song Bung 2	2017	126														0.6	0.6	0.6	0.6	
Dak My 1	2020	210																		
Da Nhim	1970	160	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	
Da Nhim	1985	400	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	
Da Nhim	1995	150	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
Ham Thuan	2001	300	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Da Mi	2001	177	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	
Dai Ninh	2007	300						1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Dong Nai 3,4	2010	510									2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
Dong Nai 2	2015	78														0.4	0.4	0.4	0.4	
Dong Nai 5	2015	170														0.9	0.9	0.9	0.9	
Duc Xuyen	2020	100														0.5	0.5	0.5	0.5	
Coal Fired			42.5	42.5	41.4	45.8	67.0	92.0	116.4	131.4	166.6	186.8	207.4	214.1	252.3	272.7	291.6	297.6	334.1	373.3
PL1		440	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	
Uong Bi		100	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	
Ninh Binh		100	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	
PL2		600	25.0	25.0	23.9	23.9	23.9	23.9	23.9	23.9	21.7	23.9	22.8	22.8	25.0	25.0	25.0	22.8	22.8	
Uong Bi extension 1		300				3.9	12.5	12.5	12.5	12.5	11.4	12.0	12.0	12.5	12.8	12.8	12.8	12.5	12.5	
Uong Bi extension 2		300						0.6	12.5	12.5	11.4	12.0	12.0	12.5	12.8	12.8	12.8	12.5	12.5	
Ninh Binh extension		300						0.6	12.5	12.5	11.4	12.0	12.0	12.5	12.8	12.8	12.8	12.5	12.5	
Hai Phong 1		300				0.6	12.0	12.0	12.0	12.0	11.4	11.4	12.0	12.0	12.5	12.8	12.8	12.5	12.5	
Hai Phong 2		300					0.6	12.5	12.5	12.5	11.4	11.4	12.0	12.0	12.5	12.8	12.8	12.5	12.5	
Quang Ninh 1		300						0.6	12.5	12.5	11.4	11.4	12.0	12.0	12.5	12.8	12.8	12.5	12.5	
Quang Ninh 2		300							0.6	12.5	11.4	11.4	12.0	12.0	12.5	12.8	12.8	12.5	12.5	
Quang Ninh 3		300								0.6	11.4	11.4	12.0	12.0	12.5	12.8	12.8	12.5	12.5	
Quang Ninh 4		300								0.6	11.4	11.4	12.5	12.5	12.8	12.8	12.8	12.5	12.5	
Nghi Son 1		300								0.6	11.4	11.4	12.0	12.0	12.5	12.8	12.8	12.5	12.5	
Nghi Son 2		300								0.6	11.4	11.4	12.0	12.0	12.5	12.8	12.8	12.5	12.5	
Mong Duong 1		500									2.1	16.2	17.0	17.0	17.8	17.8	17.8	18.2	17.8	
Mong Duong 2		500														2.1	17.0	17.8		
New coal-fired 1 N		500																		

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Power Grids	52	71	90	105	116	128	144	156	167	179	191	201	213	227	240	252	266	279
500kV	12	16	19	20	21	21	22	23	25	26	28	30	31	33	35	37	39	41
220kV	13	17	21	24	27	30	34	37	38	40	42	43	45	47	49	51	53	55
110kV	17	24	31	36	39	42	47	50	54	58	62	65	69	74	78	82	87	91
Distribution	10	14	19	25	29	35	41	46	50	55	59	63	68	73	78	82	87	92

Fuel Cost Statement of EVN based on Revised No.5th M/P

Unit : million USD

Total Fuel cost (million USD)		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
		458	513	629	687	698	729	825	897	931	1,023	1,150	1,346	1,562	1,698	1,909	2,130	2,406	2,714
Coal Fired	Capacity (MW)	96	95	94	102	110	134	160	167	198	210	207	212	238	271	276	315	387	435
PL1	440	30.3	31.4	32.5	33.2	34.0	34.7	35.5	36.3	37.1	38.0	38.9	39.8	40.8	41.7	42.5	43.4	44.4	45.3
Uong Bi	100	9.8	8.1	7.7	2.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ninh Binh	100	11.1	9.2	8.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PL2	600	44.7	46.3	42.0	42.9	43.8	44.8	45.8	46.8	47.9	49.0	43.0	44.0	45.1	46.1	47.0	48.0	49.1	50.1
Uong Bi extension 1	300	0.0	0.0	3.5	21.4	25.0	25.6	26.1	26.7	27.4	24.5	25.1	25.7	26.3	26.9	27.4	32.0	32.7	33.4
Uong Bi extension 2	300	0.0	0.0	0.0	0.0	0.0	3.7	26.1	26.7	27.4	24.5	25.1	25.7	26.3	26.9	27.4	32.0	32.7	33.4
Ninh Binh extension	300	0.0	0.0	0.0	0.0	3.7	25.6	26.1	26.7	27.4	24.5	25.1	25.7	26.3	26.9	27.4	32.0	32.7	33.4
Nghi Son 1	300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	27.4	24.5	25.1	25.7	26.3	26.9	27.4	28.0	32.7	33.4
Nghi Son 2	300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	24.5	25.1	25.7	30.1	30.7	31.4	32.0	32.7	33.4
Mong Duong 2	500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7	44.8	45.7	46.7	47.7	48.7
New coal-fired 1	500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.1	60.6	61.8	
New coal-fired 2	500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5	61.8	
FO Fired		31	31	31	55	94	112	114	138	140	133	134	136	137	142	144	145	122	123
Can Tho	33	10.3	10.4	10.5	10.7	10.8	3.2	3.2	3.3	3.3	3.3	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0
Thu Duc	169	20.3	20.5	20.7	35.2	21.5	21.9	22.3	22.7	22.9	15.4	15.5	15.7	15.8	0.0	0.0	0.0	0.0	0.0
O Mon I-1	300	0.0	0.0	0.0	8.7	53.2	43.4	44.1	56.2	56.7	57.2	57.7	58.3	58.8	71.2	71.8	72.4	60.9	61.4
O Mon I-2	300	0.0	0.0	0.0	0.0	8.9	43.4	44.1	56.2	56.7	57.2	57.7	58.3	58.8	71.2	71.8	72.4	60.9	61.4
Gas		331	387	504	531	493	483	552	591	593	680	809	998	1,187	1,285	1,489	1,670	1,873	2,060
Quang Tri	720	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.5	140.4	167.1	170.4	173.8	
Phu My 2-1	924	122.0	124.4	167.3	182.1	160.4	150.4	152.8	155.3	158.7	162.2	138.2	141.2	144.4	176.7	180.2	183.8	187.4	191.2
Phu My 4	450	0.0	65.6	81.5	88.7	78.1	73.3	74.4	81.9	77.3	79.0	80.8	82.5	84.4	93.2	95.1	97.0	98.9	100.9
Phu My 1	1090	155.9	146.7	197.3	200.5	174.6	147.9	180.3	198.5	187.3	191.4	195.6	199.9	204.4	225.8	230.3	234.9	239.5	244.3
Nhon Trach 1	300	0.0	0.0	0.0	0.0	18.7	40.7	41.4	50.4	51.5	52.7	53.8	55.0	65.6	66.9	68.3	69.6	71.0	72.4
Nhon Trach 2	300	0.0	0.0	0.0	0.0	0.0	19.0	49.6	50.4	51.5	52.7	53.8	55.0	65.6	66.9	68.3	69.6	71.0	72.4
Nhon Trach 3	300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.5	53.8	55.0	65.6	66.9	68.3	69.6	71.0	72.4	
Nhon Trach 4	300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.9	55.0	65.6	66.9	68.3	69.6	71.0	72.4	
Thu Duc GT	113	8.9	9.1	10.5	10.8	11.1	11.4	11.8	12.1	12.4	12.7	13.1	13.4	13.7	0.0	0.0	0.0	0.0	
Ba Ria	267	32.8	28.8	33.2	34.2	35.2	30.2	31.0	31.9	25.7	27.4	29.1	29.5	32.2	32.6	31.9	32.7	33.1	34.1
Can Tho GT	150	11.8	12.1	13.9	14.3	14.8	10.1	10.4	10.7	11.0	11.3	11.6	17.8	18.2	0.0	0.0	0.0	0.0	
O Mon III-1	300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	52.7	53.8	55.0	56.2	57.4	78.0	59.7	60.9	62.1
O Mon III-2	300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	53.8	55.0	56.2	57.4	78.0	59.7	60.9	62.1
Hon Dat CCGT	720	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.3	132.1	157.5	160.6	163.8	167.1	170.4	149.0
New CCGT 1	720	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.4	157.5	160.6	163.8	167.1	170.4	173.8
New CCGT 2	720	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.6	167.1	170.4	173.8	
New CCGT 3	720	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.7	170.4	173.8	
New CCGT 4	720	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.8	173.8		
New CCGT 5	720	0.0	0.0	0.															

APPENDIX 7-1-2

**Investment statement of power sector in Vietnam
(JICA Team)**

Investment Statement of Power Sector in Vietnam based on JICA Team

(Unit : million USD)

I	Power Plants	Installed Capacity	Construction Cost (mln USD)	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Northern Region																					
Hydro		3,585		79	320	510	482	508	539	574	706	476	668	622	778	801	503	449	117	117	
EVN	Tuyen Quang (Na Hang)	342	487	34	127	146	78	97													
EVN	Ban Mai (Ban La)	300	376	4	26	98	113	60	75												
EVN	Ban Chat	200	344			3	24	89	103	55	69										
EVN	Huoi Quang	540	548					5	38	142	164	88	110								
EVN	Hua Na	195	225					2	16	58	67	36	45								
EVN	Son La	2,400	2,462		49	74	74	148	246	271	320	246	246	246	246	246	295				
EVN	Ban Uon	250	207								2	14	54	62	33	41					
EVN	Lai Chau	1,100	1,430								29	43	143	215	286	215	286	215			
EVN	Bac Me	280	442									4	31	115	133	71	88				
BOO	Ngoi Bo	20	35	7	9	10	7														
BOO	Ngoi Phat	35	61	12	16	18	12														
BOO	Nhan Hac & Ban Coc	32	56	11	15	17	11														
BOO	Coc San-Chu Linh	70	102	3	20	27	30	20													
BOO	Na Le	90	131	4	26	35	39	26													
BOO	Thac Moi	53	77	2	15	21	23	15													
BOO	Cua Dat	97	211	2	15	55	63	34	42												
BOO	Nam Mu	11	19	1	4	5	6	4													
BOO	Song Hieu	5	9	0	2	2	3	2													
BOO	Nam Chien	140	182					2	13	47	55	29	36								
EVN	PSPP 1	1,500	975								20	29	68	98	117	146	146	117	117	117	
Thermal		6,300		105	337	576	657	614	524	897	725	164	0	0	0	84	610	854	328	0	
UB Ext 1		300	300	27	168	105			27	168	105										
UB Ext 2		300	300																		
Hai Phong 1 JV		300	330		30	185	116														
Hai Phong 2 JV		300	330			30	185	116													
Ninh Binh Ex.		300	330			30	185	116													
Quang Ninh 1 JV		300	330			30	185	116													
Quang Ninh 2 JV		300	330				30	185	116												
Quang Ninh 3 JV		300	330					30	185	116											
Quang Ninh 4 JV		300	330						30	185	116										
Nghi Son 1		300	330							30	185	116									
Nghi Son 2		300	330								30	185	116								
Mong Duong 1		500	469								42	263	164								
Mong Duong 2		500	469									42	263	164							
New Coal 1		500	469										42	263	164						
New Coal 2		500	469											42	263	164					
New Coal 3		500	469												42	263	164				
Na Duong BOO		100	120	67	42																
Cao Ngan BOO		100	120	11	67	42															
Cam Pha BOO		300	330	30	185	116															
Subtotal				184	657	1,086	1,140	1,122	1,063	1,471	1,431	640	668	622	778	801	587	1,059	971	445	117
Central Region																					
Hydro		3,512		142	301	513	628	570	475	499	265	346	146	132	106	59	48	104	76	41	51
EVN	Se San 3	260	333	29	40	117	92														
EVN	A Vuong	170	209	15	54	63	33	42													
EVN	Dak Drinh	107	174	12	45	52	28	35													
EVN	Quang Tri(Rao Quan)	70	122	9	32	37	19	24													
EVN	Buon Cuop	280	306	3	21	79	92	49	61												
EVN	Plei Krong	110	198	2	14	51	59	32	40												
EVN	An Khe-Ka Nak JV	163	184	2	13	48	55	29	37												
EVN	Buon Tua Srah	85	123	1	9	32	37	20	25												
EVN	Song Tranh 2	135	192	2	13	50	58	31	38												
EVN	Serepol 3 JV	180	247	2	17	64	74	39	49												
EVN	Song Ba Ha	250	281			3	20	73	84	45	56										
EVN	Song Con 2	70	102		1	7	26	30	16	20			</td								

Generation Energy Statement of Power Sector in Vietnam based on JICA Team

Norm/Year	com. Year	CS	(UNIT : GWh)																			
			2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020		
NORTH																						
DEMAND			15467	17451	19680	21842	24233	26915	29923	33339	36114	39130	42408	45972	49787	53333	57132	61208	65652	70350		
POWER PRODUCTION			31097	15658	15548	15786	18114	23235	29387	34617	38420	39782	46067	52064	56227	60798	65010	68759	72782	77765	80495	
Hydro + Import			31097	8481	8481	8627	9652	11779	13111	13366	14086	16721	19915	23027	25582	28743	30916	32749	32578	32578		
Thac Ba	1972	414	414	414	414	414	414	414	414	414	414	414	414	414	414	414	414	414	414	414	414	
Hoa Binh	1992	8067	8067	8067	8067	8067	8067	8067	8067	8067	8067	8067	9304	9304	9304	9304	9304	9304	9304	9304	9304	
T.Quang (N.H.)	2007	1296	0	0	0	0	432	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296	
Ngoi Bo + Ngoi Phat	2006	266	0	0	0	0	89	266	266	266	266	266	266	266	266	266	266	266	266	266	266	
Nhan Hac & Ban Coc	2006	174	0	0	0	0	58	174	174	174	174	174	174	174	174	174	174	174	174	174	174	
Thac Muoi	2007	207	0	0	0	0	0	69	207	207	207	207	207	207	207	207	207	207	207	207	207	
Chu Linh - Coc San	2007	280	0	0	0	0	0	93	280	280	280	280	280	280	280	280	280	280	280	280	280	
Na Le	2007	410	0	0	0	0	0	137	410	410	410	410	410	410	410	410	410	410	410	410	410	
Ban La	2008	1055	0	0	0	0	0	0	352	1055	1055	1055	1055	1055	1055	1055	1055	1055	1055	1055	1055	
Cua Dat	2008	391	0	0	0	0	0	0	130	391	391	391	391	391	391	391	391	391	391	391	391	
Nam Mu & Song Hieu	2008	118	0	0	0	0	0	0	39	118	118	118	118	118	118	118	118	118	118	118	118	
Ban Chat	2010	766	0	0	0	0	0	0	0	255	766	766	766	766	766	766	766	766	766	766	766	
Huoi Quang	2011	1256	0	0	0	0	0	0	0	0	209	837	1256	1256	1256	1256	1256	1256	1256	1256	1256	1256
Son La	2012	7689	0	0	0	0	0	0	0	0	0	320	1602	3524	5767	7689	7689	7689	7689	7689	7689	7689
Hua Na	2012	697	0	0	0	0	0	0	0	0	0	0	232	697	697	697	697	697	697	697	697	697
Nam Chien	2012	651	0	0	0	0	0	0	0	0	0	0	217	651	651	651	651	651	651	651	651	651
Bac Quang	2021	489	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ban Uon	2015	938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lai Chau	2016	3681	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bac Me	2017	995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thac Cai	2021	833	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PSPP	2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-57	-228	-228
Import			0	145	434	434	1029	2219														
THERMAL			7177	7067	7305	9487	13583	17608	21506	25054	25696	29346	32149	33200	35215	36266	37843	40033	45187	47917		
Pha Lai 1	440	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927	1927
Uong Bi	100	523	416	382	101	181	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ninh Binh	100	523	416	382	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pha Lai 2	2002	600	4205	4205	3679	3679	3679	3679	3679	3679	3679	3679	3679	3679	3679	3679	3679	3679	3679	3679	3679	3679
Uong Bi extension 1	2005	300	0	0	307	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102
Uong Bi extension 2	2008	300	0	0	0	0	0	0	307	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	
Ninh Binh extension	2007	300	0	0	0	0	0	0	307	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102
Hai Phong 1	2006	300	0	0	0	0	307	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	1840	
Hai Phong 2	2007	300	0	0	0	0	307	210														

Operation & Maintenance Cost Statement of EVN based on JICA Team

Unit : million USD

	2005	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Power Grids	52	71	90	105	116	128	144	156	167	179	191	201	213	227	240	252	266	279
500kV	12	16	19	20	21	21	22	23	25	26	28	30	31	33	35	37	39	41
220kV	13	17	21	24	27	30	34	37	38	40	42	43	45	47	49	51	53	55
110kV	17	24	31	36	39	42	47	50	54	58	62	65	69	74	78	82	87	91
Diatribution	10	14	19	25	29	35	41	46	50	55	59	63	68	73	78	82	87	92

Fuel Cost Statement of EVN based on JICA Team

Unit : million USD

Total Fuel cost (million USD)		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
		458	513	629	687	698	729	825	898	1,037	1,122	1,156	1,188	1,298	1,429	1,659	1,984	2,191	2,425	
Coal Fired	Capacity (MW)	96	95	94	102	110	134	160	171	189	256	306	360	485	571	634	702	848	930	
PL1	440	30.3	31.4	32.5	33.2	34.0	34.7	35.5	36.3	37.1	38.0	38.9	39.8	40.8	41.7	42.5	43.4	44.4	45.3	
Uong Bi	100	9.8	8.1	7.7	2.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Ninh Binh	100	11.1	9.2	8.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
PL2	600	44.7	46.3	42.0	42.9	43.8	44.8	45.8	46.8	34.2	49.0	43.0	44.0	45.1	61.4	62.7	64.0	49.1	50.1	
Uong Bi extension 1	300	0.0	0.0	3.5	21.4	25.0	25.6	26.1	26.7	20.5	24.5	25.1	25.7	30.1	30.7	33.3	34.0	34.7	33.4	
Uong Bi extension 2	300	0.0	0.0	0.0	0.0	0.0	3.7	26.1	26.7	20.5	24.5	25.1	25.7	30.1	30.7	33.3	34.0	34.7	33.4	
Ninh Binh extension	300	0.0	0.0	0.0	0.0	3.7	25.6	26.1	26.7	20.5	24.5	25.1	25.7	30.1	30.7	33.3	34.0	34.7	33.4	
Nghi Son 1	300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	20.5	21.0	25.1	29.4	30.1	30.7	33.3	34.0	34.7	33.4	
Nghi Son 2	300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	20.5	21.0	25.1	29.4	30.1	30.7	33.3	34.0	34.7	33.4	
Mong Duong 2	500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.2	35.0	41.8	42.8	50.1	51.2	52.3	53.4	57.9	55.7	
Mong Duong 2	500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8	47.7	55.7	
New coal-fired 1 N	500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.3	53.0	54.0	
New coal-fired 2 N	500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.7	54.0	
New coal-fired 3 N	500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.7	54.0
New coal-fired 1 S	500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.7	57.3	58.5	59.7	60.9	62.0	63.2	64.4	65.6		
New coal-fired 2 S	500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5	59.7	60.9	62.0	63.2	64.4	65.6		
New coal-fired 3 S	500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5	59.7	60.9	62.0	63.2	64.4	65.6		
New coal-fired 4 S	500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9	60.9	62.0	63.2	64.4	65.6		
New coal-fired 5 S	500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.3	62.0	63.2	64.4	65.6		
New coal-fired 6 S	500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.8	64.4	65.6	
FO Fired		31	31	31	55	94	112	114	183	185	187	181	182	184	142	144	169	170	172	
Can Tho	33	10.3	10.4	10.5	10.7	10.8	3.2	3.2	3.3	3.3	3.3	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	
Thu Duc	169	20.3	20.5	20.7	35.2	21.5	21.9	22.3	22.7	22.9	23.1	15.5	15.7	15.8	0.0	0.0	0.0	0.0	0.0	
O Mon I-1	300	0.0	0.0	0.0	8.7	53.2	43.4	44.1	78.7	79.4	80.1	80.8	81.6	82.3	71.2	71.8	84.5	85.2	86.0	
O Mon I-2	300	0.0	0.0	0.0	0.0	8.9	43.4	44.1	78.7	79.4	80.1	80.8	81.6	82.3	71.2	71.8	84.5	85.2	86.0	
Gas		331	387	504	531	493	483	552	543	663	679	669	646	628	716	881	1,113	1,155	1,232	
Quang Tri	720	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.5	140.4	167.1	170.4	173.8	
Phu My 2-1	924	122.0	124.4	167.3	182.1	160.4	150.4	152.8	155.3	185.2	189.3	193.5	141.2	144.4	176.7	180.2	183.8	187.4	191.2	
Phu My 4	450	0.0	65.6	81.5	88.7	78.1	73.3	74.4	63.0	90.2	92.2	80.8	82.5	84.4	93.2	95.1	97.0	98.9	100.9	
Phu My 1	1090	155.9	146.7	197.3	200.5	174.6	147.9	180.3	152.7	218.5	223.3	215.2	233.3	204.4	225.8	212.6	234.9	239.5	244.3	
Nhon Trach 1	300	0.0	0.0	0.0	0.0	18.7	40.7	41.4	58.8	60.1	61.5	62.8	64.2	65.6	66.9	68.3	69.6	81.1	72.4	
Nhon Trach 2	300	0.0	0.0	0.0	0.0	0.0	19.0	49.6	58.8	60.1	61.5	62.8	64.2	65.6	66.9	68.3	69.6	81.1	72.4	
Nhon Trach 3	300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.8	69.6	71.0	
Nhon Trach 4	300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.8	69.6	71.0	
Thu Duc GT	113	8.9	9.1	10.5	10.8	11.1	11.4	11.8	12.1	12.4	12.7	13.1	13.4	13.7	0.0	0.0	0.0	0.0	0.0	
Ba Ria	267	32.8	28.8	33.2	34.2	35.2	30.2	31.0	31.9	25.7	27.4	29.1	29.5	32.2	32.6	31.9	32.7	33.1	34.1	
Can Tho GT	150	11.8	12.1	13.9																

APPENDIX 7-2-1

Financial forecasts with EVN financing condition

CASE 1 : With EVN Financing Condition
 Schedule of Borrowings based on JICA Study

(Unit: Million US\$)

Projects	B/K	Borrow.	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Ba Ria GT	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings										
		Repayment	5.5	5.5	5.5	5.5	5.5	5.2				
		Balance	27.2	21.7	16.2	10.7	5.2	0.0	0.0	0.0	0.0	0.0
		IDC										
		Interest Charge	2.5	2.0	1.6	1.2	0.8	0.4	0.0	0.0	0.0	0.0
Phu My 1	ODA Loans	Borrowings	16.1									
		Repayment	22.9	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
		Balance	383.8	360.0	336.2	312.4	288.6	264.8	241.0	217.2	193.4	169.7
		IDC										
		Interest Charge	8.8	8.4	7.9	7.4	6.9	6.3	5.8	5.3	4.8	4.3
	Commercial Borrowings	Borrowings		4.9								
		Repayment	0.9	0.9	1.6	1.6	1.6	1.8				
		Balance	2.6	6.6	5.0	3.4	1.8	0.0	0.0	0.0	0.0	0.0
		IDC										
		Interest Charge	0.3	0.4	0.5	0.4	0.3	0.1	0.0	0.0	0.0	0.0
Song Hinh	ODA Loans	Borrowings	0.4									
		Repayment	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	0.0	0.0
		Balance	63.9	55.0	46.0	37.1	28.1	19.2	10.3	1.3	1.3	1.2
		IDC										
		Interest Charge	4.4	3.8	3.3	2.8	2.2	1.7	1.2	0.6	0.1	0.1
	Commercial Borrowings	Borrowings										
		Repayment	7.1	7.1								
		Balance	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		IDC										
		Interest Charge	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yaly	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings	3.1	0.5								
		Repayment	70.1	70.6	62.8							
		Balance	132.9	62.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		IDC										
		Interest Charge	15.1	10.0	4.7							
Pha Lai 2	ODA Loans	Borrowings										
		Repayment	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
		Balance	406.0	380.7	355.4	330.1	304.8	279.5	254.2	228.9	203.6	178.3
		IDC										
		Interest Charge	9.5	8.9	8.4	7.8	7.3	6.7	6.1	5.6	5.0	4.5
	Commercial Borrowings	Borrowings	14.6	0.6								
		Repayment	0.8	3.2	3.3	3.3	3.3	3.3	1.9			
		Balance	17.9	15.3	11.9	8.6	5.3	1.9	0.0	0.0	0.0	0.0
		IDC										
		Interest Charge	0.9	1.4	1.1	0.9	0.6	0.4	0.1	0.0	0.0	0.0
Ham Thuan+Da M	ODA Loans	Borrowings										
		Repayment	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
		Balance	226.9	213.6	200.3	187.0	173.7	160.4	147.1	133.8	120.5	107.2
		IDC										
		Interest Charge	5.4	5.1	4.8	4.6	4.3	4.0	3.7	3.4	3.1	2.8
	Commercial Borrowings	Borrowings	12.5									
		Repayment	9.5	12.6	9.4							
		Balance	22.0	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		IDC										
		Interest Charge	1.9	1.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tuyen Quang	ODA Loans	Borrowings	8.9	33.2	38.1	20.4	25.3					
		Repayment				11.6	14.6	18.2	18.2	18.2	18.2	18.2
		Balance	10.2	43.4	81.5	90.3	101.0	82.8	64.7	46.5	28.3	10.1
		IDC	0.3	1.6	3.7	5.5	3.1					
		Interest Charge				3.1	6.1	5.0	3.9	2.8	1.7	
	Commercial Borrowings	Borrowings	27.3	93.8	107.9	57.6	71.7					
		Repayment				38.8	48.4	60.3	60.3	60.3	21.6	
		Balance	31.0	124.8	232.7	251.5	274.9	214.5	154.2	93.8	33.5	12.0
		IDC	1.3	5.8	13.4	19.6	10.8					
		Interest Charge				10.8	20.6	16.1	11.6	7.0	2.5	
Ban Mai (Ban La)	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings	4.0	26.0	98.0	113.0	60.0	75.0				
		Repayment				21.3	40.2	50.2	62.7	62.7	41.3	
		Balance	4.0	30.0	128.0	219.7	239.5	264.3	201.7	139.0	76.3	35.0
		IDC	0.2	1.3	5.9	13.8	18.7	10.4				
		Interest Charge						10.4	19.8	15.1	10.4	5.7

Projects	B/K	Borrow.	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Ban Chat	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings		3.0	24.0	89.0	103.0	55.0	69.0			
		Repayment						36.5	45.7	57.2	57.2	
		Balance		0.0	3.0	27.0	116.0	219.0	237.5	260.8	203.7	146.5
		IDC			0.1	1.1	5.4	12.6	18.5	10.2		
		Interest Charge							10.2	19.6	15.3	
Huoi Quang	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings				5.0	38.0	142.0	164.0	88.0	110.0	
		Repayment							30.8	58.2	72.8	
		Balance			0.0	5.0	43.0	185.0	318.2	348.0	385.2	
		IDC					0.2	1.8	8.6	20.0	13.6	
		Interest Charge								13.6	30.2	
Hua Na	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings				2.0	16.0	58.0	67.0	36.0	45.0	
		Repayment							12.7	23.8	29.8	
		Balance			0.0	2.0	18.0	76.0	130.3	142.5	157.7	
		IDC					0.1	0.8	3.5	8.2	11.1	6.2
		Interest Charge										6.2
Son La	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings	49.0	74.0	74.0	148.0	246.0	271.0	320.0	246.0	246.0	
		Repayment				32.8	57.5	98.5	143.7	197.0	238.0	
		Balance	0.0	49.0	123.0	197.0	312.2	500.7	673.2	849.5	898.5	906.5
		IDC		1.8	6.5	12.0	20.3	32.6	47.7	62.5	72.9	38.3
		Interest Charge										
Ban Uon	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings							2.0	14.0	54.0	
		Repayment							0.0	2.0	16.0	70.0
		Balance							0.1	0.7	3.2	
		IDC										
		Interest Charge										
Lai Chau	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings							29.0	43.0	143.0	
		Repayment							0.0	29.0	72.0	215.0
		Balance							1.1	3.8	10.8	
		IDC										
		Interest Charge										
Bac Me	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings										4.0
		Repayment										0.2
		Balance										0.0
		IDC										4.0
		Interest Charge										0.2
PSPP 1	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings							20.0	29.0		
		Repayment										3.3
		Balance							0.0	20.0	45.7	
		IDC								0.8	2.6	
		Interest Charge										

Projects	B/K	Borrow.	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
UB Ext 1	ODA Loans	Borrowings	8.5	53.0	33.1							
		Repayment			7.7	11.8	11.8	11.8	11.8	11.8	11.8	11.8
		Balance	8.5	61.5	86.9	75.1	63.3	51.4	39.6	27.8	16.0	4.1
		IDC	0.3	2.1	2.3							
		Interest Charge			2.3	5.6	4.9	4.2	3.4	2.7	2.0	1.3
	Commercial Borrowings	Borrowings	18.5	115.0	71.9							
		Repayment			16.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
		Balance	18.5	133.5	188.7	163.0	137.4	111.7	86.0	60.3	34.7	9.0
		IDC	0.9	7.2	8.0							
		Interest Charge			8.0	19.1	16.7	14.3	11.8	9.4	7.0	4.5
UB Ext 2	ODA Loans	Borrowings				8.5	53.0	33.1				
		Repayment						7.7	11.8	11.8	11.8	11.8
		Balance			0.0	8.5	61.5	86.9	75.1	63.3	51.4	39.6
		IDC				0.3	2.1	2.3				
		Interest Charge						2.3	5.6	4.9	4.2	3.4
	Commercial Borrowings	Borrowings				18.5	115.0	71.9				
		Repayment						16.7	25.7	25.7	25.7	25.7
		Balance			0.0	18.5	133.5	188.7	163.0	137.4	111.7	86.0
		IDC				0.9	7.2	8.0				
		Interest Charge						8.0	19.1	16.7	14.3	11.8
Hai Phong 1 JV	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings		30.0	185.0	116.0						
		Repayment					55.2	55.2	55.2	55.2	55.2	55.2
		Balance	0.0	30.0	215.0	331.0	275.8	220.7	165.5	110.3	55.2	0.0
		IDC		1.1	9.2	10.2						
		Interest Charge				10.2	24.8	20.7	16.6	12.4	8.3	4.1
Hai Phong 2 JV	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings		30.0	185.0	116.0						
		Repayment					55.2	55.2	55.2	55.2	55.2	55.2
		Balance	0.0	30.0	215.0	331.0	275.8	220.7	165.5	110.3	55.2	0.0
		IDC		1.1	9.2	10.2						
		Interest Charge				10.2	24.8	20.7	16.6	12.4	8.3	4.1
Ninh Binh Ex.	ODA Loans	Borrowings		30.0	185.0	116.0						
		Repayment										
		Balance	0.0	30.0	215.0	331.0	331.0	331.0	308.9	286.9	264.8	
		IDC		0.3	2.7	3.0						
		Interest Charge				3.0	7.3	7.3	7.3	6.8	6.3	
	Commercial Borrowings	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
Quang Ninh 1 JV	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings			30.0	185.0	116.0					
		Repayment						55.2	55.2	55.2	55.2	55.2
		Balance	0.0	30.0	215.0	331.0	275.8	220.7	165.5	110.3		
		IDC		1.1	9.2	10.2						
		Interest Charge				10.2	24.8	20.7	16.6	12.4		
Quang Ninh 2 JV	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings			30.0	185.0	116.0					
		Repayment							55.2	55.2	55.2	55.2
		Balance	0.0	30.0	215.0	331.0	275.8	220.7	165.5	110.3		
		IDC		1.1	9.2	10.2						
		Interest Charge				10.2	24.8	20.7	16.6	12.4		
Quang Ninh 3 JV	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings				30.0	185.0	116.0				
		Repayment							55.2	55.2	55.2	55.2
		Balance	0.0	30.0	215.0	331.0	275.8	220.7	165.5	110.3		
		IDC				9.2	10.2					
		Interest Charge				10.2	24.8	20.7	16.6	12.4		

Projects	B/K	Borrow.	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Quang Ninh 4 JV	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings						30.0	185.0	116.0		
		Repayment									55.2	55.2
		Balance					0.0	30.0	215.0	331.0	275.8	220.7
		IDC							1.1	9.2	10.2	
		Interest Charge								10.2	24.8	20.7
Nghi Son 1	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings						30.0	185.0	116.0		
		Repayment									55.2	55.2
		Balance					0.0	30.0	215.0	331.0	275.8	220.7
		IDC							1.1	9.2	10.2	
		Interest Charge								10.2	24.8	20.7
Nghi Son 2	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings						30.0	185.0	116.0		
		Repayment									55.2	55.2
		Balance					0.0	30.0	215.0	331.0	275.8	220.7
		IDC							1.1	9.2	10.2	
		Interest Charge								10.2	24.8	20.7
Mong Duong 1	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings							42.0	263.0	164.0	
		Repayment										78.2
		Balance						0.0	42.0	305.0	469.0	390.8
		IDC							1.6	13.0	14.5	
		Interest Charge								14.5		35.2
Se San 3	ODA Loans	Borrowings	19.3	10.9	31.9	25.1						
		Repayment					18.2	18.2	18.2	18.2	18.2	
		Balance	22.9	33.8	65.7	90.8	72.6	54.5	36.3	18.2	0.0	
		IDC	0.6	1.2	2.2	1.7						
		Interest Charge				1.7	4.0	3.2	2.4	1.6	0.8	
	Commercial Borrowings	Borrowings	58.9	29.1	85.1	66.9						
		Repayment		8.7	12.9	25.0	34.6	34.6	34.6	34.6	25.9	13.0
		Balance	61.1	81.5	153.7	195.5	160.9	126.3	91.7	57.1	31.3	18.3
		IDC	2.9	6.9	11.3	8.5						
		Interest Charge				8.5	17.8	14.6	11.5	8.3	5.2	2.8
A Vuong	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings	15.0	54.0	63.0	33.0	42.0					
		Repayment				22.0	27.5	34.5	34.5	34.5	34.5	12.5
		Balance	15.0	69.0	132.0	143.0	157.5	123.0	88.5	54.0	19.5	7.0
		IDC	0.6	3.2	7.5	11.1	6.2					
		Interest Charge					6.2	11.8	9.2	6.6	4.1	1.5
Dak Drinh	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings	12.0	45.0	52.0	28.0	35.0					
		Repayment				18.2	22.8	28.7	28.7	28.7	28.7	10.5
		Balance	12.0	57.0	109.0	118.8	131.0	102.3	73.7	45.0	16.3	5.8
		IDC	0.5	2.6	6.2	9.2	5.1					
		Interest Charge					5.1	9.8	7.7	5.5	3.4	1.2
Quang Tri(Rao Qu	ODA Loans	Borrowings	3.2	11.4	13.1	6.8	8.6					
		Repayment				4.0	4.9	6.2	6.2	6.2	6.2	6.2
		Balance	3.2	14.6	27.7	30.5	34.2	28.1	21.9	15.7	9.6	3.4
		IDC	0.1	0.5	1.3	1.9	1.0					
		Interest Charge					1.0	2.1	1.7	1.3	0.9	0.6
	Commercial Borrowings	Borrowings	5.8	20.6	23.9	12.2	15.4					
		Repayment				8.4	10.4	13.0	13.0	13.0	13.0	4.6
		Balance	5.8	26.4	50.3	54.1	59.1	46.1	33.1	20.2	7.2	2.6
		IDC	0.2	1.2	2.9	4.2	2.3					
		Interest Charge					2.3	4.4	3.5	2.5	1.5	0.5

Projects	B/K	Borrow.	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Buon Cuop	ODA Loans	Borrowings		3.0	21.0	79.0	92.0					
		Repayment					8.6	16.3	16.3	16.3	16.3	16.3
		Balance	0.0	3.0	24.0	103.0	186.4	170.2	153.9	137.7	121.4	105.2
		IDC		0.0	0.3	1.4	3.3	2.1				
		Interest Charge						2.1	3.7	3.4	3.0	2.7
	Commercial Borrowings	Borrowings						49.0	61.0			
		Repayment									18.3	15.3
		Balance					0.0	49.0	110.0	110.0	91.7	76.4
		IDC						0.9				
		Interest Charge						0.9	6.0	8.3	8.3	6.9
Plei Krong	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings	2.0	14.0	51.0	59.0	32.0	40.0				
		Repayment				11.2	21.0	26.3	33.0	33.0	33.0	21.8
		Balance	2.0	16.0	67.0	114.8	125.8	139.5	106.5	73.5	40.5	18.7
		IDC	0.1	0.7	3.1	7.2	9.8	5.5				
		Interest Charge						5.5	10.5	8.0	5.5	3.0
An Khe-Ka Nak JV	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings		2.0	13.0	48.0	55.0	29.0	37.0			
		Repayment					10.5	19.7	24.5	30.7	30.7	30.7
		Balance	0.0	2.0	15.0	63.0	107.5	116.8	129.3	98.7	68.0	37.3
		IDC	0.1	0.6	2.9	6.8	9.2	5.1				
		Interest Charge						5.1	9.7	7.4	5.1	
Buon Tua Srah	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings		1.0	9.0	32.0	37.0	20.0	25.0			
		Repayment					7.0	13.2	16.5	20.7	20.7	20.7
		Balance	0.0	1.0	10.0	42.0	72.0	78.8	87.3	66.7	46.0	25.3
		IDC	0.0	0.4	2.0	4.5	6.2	3.4				
		Interest Charge						3.4	6.6	5.0	3.5	
Song Tranh 2	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings		2.0	13.0	50.0	58.0	31.0	38.0			
		Repayment					10.8	20.5	25.7	32.0	32.0	32.0
		Balance	0.0	2.0	15.0	65.0	112.2	122.7	135.0	103.0	71.0	39.0
		IDC	0.1	0.6	3.0	7.1	9.6	5.3				
		Interest Charge						5.3	10.1	7.7	5.3	
Srepok 3	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings		2.0	17.0	64.0	74.0	39.0	49.0			
		Repayment					13.8	26.2	32.7	40.8	40.8	40.8
		Balance	0.0	2.0	19.0	83.0	143.2	156.0	172.3	131.5	90.7	49.8
		IDC	0.1	0.8	3.8	9.0	12.2	6.8				
		Interest Charge						6.8	12.9	9.9	6.8	
Song Ba Ha	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings				3.0	20.0	73.0	84.0	45.0	56.0	
		Repayment							16.0	30.0	37.5	46.8
		Balance		0.0	3.0	23.0	96.0	164.0	179.0	197.5	150.7	
		IDC			0.1	1.0	4.5	10.4	14.0	7.8		
		Interest Charge							7.8		14.8	
Song Con 2	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings		1.0	7.0	26.0	30.0	16.0	20.0			
		Repayment						5.7	10.7	13.3	16.7	16.7
		Balance	0.0	1.0	8.0	34.0	58.3	63.7	70.3	53.7	37.0	
		IDC			0.0	0.3	1.6	3.7	5.0	2.8		
		Interest Charge							2.8	5.3	4.0	

Projects	B/K	Borrow.	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Upper Kontum	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings				3.0	19.0	72.0	83.0	44.0	56.0	
		Repayment							15.7	29.5	36.8	46.2
		Balance			0.0	3.0	22.0	94.0	161.3	175.8	195.0	148.8
		IDC				0.1	0.9	4.4	10.2	13.8	7.6	
		Interest Charge								7.6		14.6
Dak Mi 4	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings				3.0	18.0	66.0	76.0	41.0	51.0	
		Repayment							14.5	27.2	34.0	42.5
		Balance			0.0	3.0	21.0	87.0	148.5	162.3	179.3	136.8
		IDC				0.1	0.9	4.1	9.4	12.7	7.0	
		Interest Charge								7.0		13.5
Se San 4	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings						4.0	26.0	95.0	109.0	58.0
		Repayment								20.8		39.0
		Balance					0.0	4.0	30.0	125.0	213.2	232.2
		IDC						0.2	1.3	5.8	13.5	9.1
		Interest Charge										9.1
Song Bung 4	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings							3.0	20.0	74.0	86.0
		Repayment										16.2
		Balance						0.0	3.0	23.0	97.0	166.8
		IDC							0.1	1.0	4.5	10.5
		Interest Charge										
Song Bung 2	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings										2.0
		Repayment										
		Balance								0.0		2.0
		IDC										0.1
		Interest Charge										
Dai Ninh	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings	55.0	53.0	103.0	113.0	107.0					
		Repayment			18.0	21.0	39.8	57.7	57.7	57.7	39.7	36.7
		Balance	55.0	108.0	193.0	285.0	352.2	294.5	236.8	179.2	139.5	102.8
		IDC	2.1	6.1	12.0	18.7	12.7					
		Interest Charge					12.7	26.4	22.1	17.8	13.4	10.5
Thac Mo EX.	ODA Loans	Borrowings		1.4	7.2	10.1	10.9	7.2				
		Repayment							2.5	2.5	2.5	2.5
		Balance	0.0	1.4	8.6	18.7	29.6	36.8	34.3	31.9	29.4	27.0
		IDC		0.0	0.1	0.3	0.5	0.4				
		Interest Charge					0.4	0.8	0.8	0.7	0.6	
	Commercial Borrowings	Borrowings		0.6	2.8	3.9	4.1	2.8				
		Repayment					1.2	1.9	2.4	2.4	2.4	2.4
		Balance	0.0	0.6	3.4	7.3	10.2	11.1	8.7	6.4	4.0	1.6
		IDC		0.0	0.2	0.4	0.7	0.4				
		Interest Charge					0.4	0.8	0.7	0.5	0.3	
Dong Nai 3,4	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings		7.0	49.0	181.0	209.0	112.0	139.0			
		Repayment					39.5	74.3	93.0	116.2		116.2
		Balance	0.0	7.0	56.0	237.0	406.5	444.2	490.2	374.0		257.8
		IDC			0.3	2.4	11.0	25.6	34.7	19.3		
		Interest Charge							19.3	36.8		28.1

Projects	B/K	Borrow.	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Dong Nai 2	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings								6.0	37.0	
		Repayment								0.0	6.0	43.0
		Balance								0.2	1.8	
		IDC										
		Interest Charge										
Dong Nai 5	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings								3.0	19.0	69.0
		Repayment								0.0	3.0	22.0
		Balance								0.1	0.9	91.0
		IDC										
		Interest Charge										
O Mon 1	ODA Loans	Borrowings	44.0	67.0	222.0	107.0	32.0					
		Repayment						47.2	47.2	47.2	47.2	47.2
		Balance	44.0	111.0	333.0	440.0	472.0	424.8	377.6	330.4	283.2	236.0
		IDC	0.5	1.7	4.9	4.3	5.0					
		Interest Charge						4.3	5.0	10.4	9.3	7.3
	Commercial Borrowings	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
PM2-1 ST	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings	44.0									
		Repayment	6.0	12.3	12.3	12.3	12.3	12.3	12.3	6.3		
		Balance	80.0	67.7	55.4	43.1	30.9	18.6	6.3	0.0	0.0	0.0
		IDC	1.9									
		Interest Charge	1.9	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	
PM2-1 Ext ST	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings	3.0	38.0	43.0							
		Repayment				12.0	12.0	12.0	12.0	12.0	12.0	12.0
		Balance	3.0	41.0	84.0	72.0	60.0	48.0	36.0	24.0	12.0	0.0
		IDC	0.1	1.3	1.9							
		Interest Charge				1.9	5.0	4.3	3.6	2.9	2.2	1.4
PM4	ODA Loans	Borrowings	80.4									
		Repayment		13.7	13.7	13.7	13.7	13.7	13.7	13.7		
		Balance	95.9	82.2	68.5	54.8	41.1	27.4	13.7	0.0	0.0	0.0
		IDC	1.5									
		Interest Charge	1.5	5.2	4.4	3.7	3.0	2.2	1.5	0.7		
	Commercial Borrowings	Borrowings	122.3									
		Repayment		18.4	18.4	18.4	18.4	18.4	18.4	18.4		
		Balance	128.7	110.3	91.9	73.5	55.2	36.8	18.4	0.0	0.0	0.0
		IDC	2.5									
		Interest Charge	2.5	9.7	8.3	6.9	5.5	4.1	2.8	1.4		
O Mon 2	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings								18.0	203.0	
		Repayment								0.0	18.0	221.0
		Balance									0.7	9.0
		IDC										
		Interest Charge										
Nhon Trach 1	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings		7.0	81.0	92.0						
		Repayment					30.0	30.0	30.0	30.0	30.0	
		Balance	0.0	7.0	88.0	180.0	150.0	120.0	90.0	60.0	30.0	
		IDC			0.3	3.6	5.0					
		Interest Charge					5.0	13.5	11.3	9.0	6.8	4.5

Projects	B/K	Borrow.	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Nhon Trach 2	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings				7.0	81.0	92.0				
		Repayment							30.0	30.0	30.0	30.0
		Balance			0.0	7.0	88.0	180.0	150.0	120.0	90.0	60.0
		IDC				0.3	3.6	5.0				
		Interest Charge							5.0	13.5	11.3	9.0
New Coal 1	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings								50.0	308.0	193.0
		Repayment								0.0	50.0	358.0
		Balance								1.9	15.3	34.1
		IDC										
		Interest Charge										
New Coal 2	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings									50.0	
		Repayment									0.0	50.0
		Balance									1.9	
		IDC										
		Interest Charge										
New Coal 3	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings									50.0	
		Repayment									0.0	50.0
		Balance									1.9	
		IDC										
		Interest Charge										
500kV	ODA Loans	Borrowings	145.4	151.9	148.1	32.1	25.1	28.3	32.1	26.7	64.3	64.3
		Repayment			22.2	32.0	34.2	35.9	37.7	39.9	41.7	46.0
		Balance	180.7	332.6	458.5	458.6	449.5	441.9	436.3	423.1	445.7	464.1
		IDC	2.4	5.8	9.1	10.7	10.6	10.4	10.3	10.1	10.2	10.8
		Interest Charge	2.4	5.8	9.1	10.7	10.6	10.4	10.3	10.1	10.2	10.8
	Commercial Borrowings	Borrowings	121.6	127.1	123.9	26.9	20.9	23.7	26.9	22.3	53.7	53.7
		Repayment	1.1	21.3	42.5	63.2	67.6	71.1	74.0	58.2	40.8	29.1
		Balance	126.9	232.6	314.0	277.8	231.1	183.6	136.5	100.6	113.5	138.2
		IDC	2.5	7.1	11.0	12.3	10.8	9.1	7.4	5.5	4.8	5.3
		Interest Charge	2.5	7.1	11.0	12.3	10.8	9.1	7.4	5.5	4.8	5.3
220kV	ODA Loans	Borrowings	71.6	78.4	76.7	64.9	51.0	57.7	65.3	53.9	31.6	31.6
		Repayment	3.4	8.1	13.4	18.5	22.8	26.2	30.0	34.4	38.0	40.1
		Balance	118.5	188.8	252.2	298.6	326.8	358.3	393.6	413.1	406.7	398.2
		IDC	2.9	5.3	7.6	9.5	10.9	11.9	13.1	14.1	14.4	14.2
		Interest Charge	2.9	5.3	7.6	9.5	10.9	11.9	13.1	14.1	14.4	14.2
	Commercial Borrowings	Borrowings	98.4	107.6	105.3	89.1	70.0	79.3	89.7	74.1	43.4	43.4
		Repayment	13.8	30.2	48.1	65.6	80.5	92.2	91.6	90.2	84.6	74.3
		Balance	167.2	244.6	301.8	325.3	314.8	302.0	300.0	284.0	242.8	211.9
		IDC	4.9	8.3	11.1	13.0	13.5	13.3	13.0	12.6	11.5	9.9
		Interest Charge	4.9	8.3	11.1	13.0	13.5	13.3	13.0	12.6	11.5	9.9
110kV	ODA Loans	Borrowings	41.6	48.2	55.1	28.7	22.5	25.5	28.7	23.7	31.7	31.7
		Repayment	1.7	4.5	7.7	11.4	13.3	14.8	16.5	18.4	20.0	22.1
		Balance	65.9	109.6	156.9	174.2	183.4	194.1	206.3	211.6	223.3	232.9
		IDC	1.6	3.1	4.7	5.9	6.4	6.8	7.2	7.5	7.8	8.3
		Interest Charge	1.6	3.1	4.7	5.9	6.4	6.8	7.2	7.5	7.8	8.3
	Commercial Borrowings	Borrowings	200.4	231.8	264.9	138.3	108.5	122.5	138.3	114.3	152.3	152.3
		Repayment	19.9	53.3	92.0	136.1	159.2	177.2	177.7	167.4	147.8	129.0
		Balance	300.0	478.5	651.4	653.6	603.0	548.2	508.8	455.7	460.2	483.5
		IDC	8.2	15.6	22.9	27.0	26.5	24.9	23.2	21.2	19.9	20.1
		Interest Charge	8.2	15.6	22.9	27.0	26.5	24.9	23.2	21.2	19.9	20.1
Distribution	ODA Loans	Borrowings										
		Repayment	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
		Balance	79.4	73.8	68.1	62.4	56.7	51.1	45.4	39.7	34.0	28.4
		IDC	2.8	2.6	2.4	2.2	2.0	1.8	1.7	1.5	1.3	1.1
		Interest Charge	2.8	2.6	2.4	2.2	2.0	1.8	1.7	1.5	1.3	1.1
	Commercial Borrowings	Borrowings	247.0	258.0	268.0	325.0	255.0	288.0	326.0	269.0	234.0	234.0
		Repayment	21.6	62.8	105.8	150.4	204.6	247.1	273.5	286.7	288.5	282.8
		Balance	355.0	550.2	712.5	887.0	937.4	978.3	1,030.8	1,013.2	958.7	909.8
		IDC	9.5	18.2	25.7	32.8	38.0	40.6	42.8	43.7	42.4	40.3
		Interest Charge	9.5	18.2	25.7	32.8	38.0	40.6	42.8	43.7	42.4	40.3

Projects	B/K	Borrow.	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Total Borrowings	ODA Loans	Borrowings	439.4	458.4	676.3	567.6	436.4	151.8	126.1	104.3	127.6	127.6
		Repayment	81.2	103.3	141.6	180.0	219.0	293.0	307.0	337.5	321.9	312.2
		Balance	1,709.8	2,064.9	2,599.6	2,987.1	3,204.5	3,063.3	2,882.3	2,649.1	2,454.8	2,270.2
		IDC	13.0	24.0	39.1	46.3	47.9	35.7	32.3	33.2	33.7	34.3
		Interest Charge	39.2	48.3	55.1	66.1	74.5	89.8	89.8	83.0	75.2	68.8
	Commercial Borrowings	Borrowings	1,065.4	1,305.6	1,822.7	1,860.4	2,172.6	2,241.2	2,614.9	2,314.7	1,791.4	1,862.4
		Repayment	156.2	306.9	449.2	660.0	966.8	1,312.6	1,630.6	1,847.9	2,167.1	2,186.5
		Balance	1,574.8	2,573.5	3,947.0	5,147.4	6,353.3	7,281.8	8,266.2	8,732.9	8,357.3	8,033.2
		IDC	38.3	88.7	163.1	231.1	260.3	268.1	304.7	310.4	253.5	209.4
		Interest Charge	51.3	79.6	102.4	142.2	216.9	302.9	352.7	409.1	475.6	492.9
	Total	Borrowings	1,504.8	1,764.0	2,499.0	2,428.0	2,609.0	2,393.0	2,741.0	2,419.0	1,919.0	1,990.0
		Repayment	237.4	410.3	590.8	840.0	1,185.8	1,605.6	1,937.6	2,185.4	2,488.9	2,498.7
		Balance	3,284.7	4,638.4	6,546.6	8,134.6	9,557.7	10,345.1	11,148.5	11,382.0	10,812.1	10,303.4
		IDC	51.3	112.7	202.1	277.5	308.2	303.8	337.0	343.6	287.2	243.6
		Interest Charge	90.5	127.8	157.5	208.3	291.4	392.6	442.4	492.0	550.8	561.7

APPENDIX 7-2-2

Financial forecasts with revised financing condition

CASE 2 : With Revised Financing Condition
 Schedule of Borrowings based on JICA Study

(Unit: Million US\$)

Projects	B/K		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Ba Ria GT	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings										
		Repayment	5.5	5.5	5.5	5.5	5.5	5.2				
		Balance	27.2	21.7	16.2	10.7	5.2	0.0	0.0	0.0	0.0	0.0
		IDC										
		Interest Charge	2.5	2.0	1.6	1.2	0.8	0.4	0.0	0.0	0.0	0.0
Phu My 1	ODA Loans	Borrowings	16.1									
		Repayment	22.9	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
		Balance	383.8	360.0	336.2	312.4	288.6	264.8	241.0	217.2	193.4	169.7
		IDC										
		Interest Charge	8.8	8.4	7.9	7.4	6.9	6.3	5.8	5.3	4.8	4.3
	Commercial Borrowings	Borrowings		4.9								
		Repayment	0.9	0.9	1.6	1.6	1.6	1.8				
		Balance	2.6	6.6	5.0	3.4	1.8	0.0	0.0	0.0	0.0	0.0
		IDC										
		Interest Charge	0.3	0.4	0.5	0.4	0.3	0.1	0.0	0.0	0.0	0.0
Song Hin	ODA Loans	Borrowings	0.4									
		Repayment	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	0.0	0.0
		Balance	63.9	55.0	46.0	37.1	28.1	19.2	10.3	1.3	1.3	1.2
		IDC										
		Interest Charge	4.4	3.8	3.3	2.8	2.2	1.7	1.2	0.6	0.1	0.1
	Commercial Borrowings	Borrowings										
		Repayment	7.1	7.1								
		Balance	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		IDC										
		Interest Charge	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yaly	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings	3.1	0.5								
		Repayment	70.1	70.6	62.8							
		Balance	132.9	62.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		IDC										
		Interest Charge	15.1	10.0	4.7							
Pha Lai 2	ODA Loans	Borrowings										
		Repayment	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
		Balance	406.0	380.7	355.4	330.1	304.8	279.5	254.2	228.9	203.6	178.3
		IDC										
		Interest Charge	9.5	8.9	8.4	7.8	7.3	6.7	6.1	5.6	5.0	4.5
	Commercial Borrowings	Borrowings	14.6	0.6								
		Repayment	0.8	3.2	3.3	3.3	3.3	3.3	1.9			
		Balance	17.9	15.3	11.9	8.6	5.3	1.9	0.0	0.0	0.0	0.0
		IDC										
		Interest Charge	0.9	1.4	1.1	0.9	0.6	0.4	0.1	0.0	0.0	0.0
Ham Thuan+Da Mi	ODA Loans	Borrowings										
		Repayment	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
		Balance	226.9	213.6	200.3	187.0	173.7	160.4	147.1	133.8	120.5	107.2
		IDC										
		Interest Charge	5.4	5.1	4.8	4.6	4.3	4.0	3.7	3.4	3.1	2.8
	Commercial Borrowings	Borrowings	12.5									
		Repayment	9.5	12.6	9.4							
		Balance	22.0	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		IDC										
		Interest Charge	1.9	1.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tuyen Quang	ODA Loans	Borrowings	8.9	33.2	38.1	20.4	25.3					
		Repayment				6.8	8.5	10.6	10.6	10.6	10.6	10.6
		Balance	10.2	43.4	81.5	95.1	111.9	101.3	90.7	80.1	69.5	58.9
		IDC	0.3	1.6	3.7	5.5	3.2					
		Interest Charge					3.2	6.7	6.1	5.4	4.8	4.2
	Commercial Borrowings	Borrowings	27.3	93.8	107.9	57.6	71.7					
		Repayment				38.8	48.4	60.3	60.3	60.3	60.3	21.6
		Balance	31.0	124.8	232.7	251.5	274.9	214.5	154.2	93.8	33.5	12.0
		IDC	1.3	5.8	13.4	19.6	10.8					
		Interest Charge					10.8	20.6	16.1	11.6	7.0	2.5
Ban Mai (Ban La)	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings	4.0	26.0	98.0	113.0	60.0	75.0				
		Repayment				21.3	40.2	50.2	62.7	62.7	62.7	41.3
		Balance	4.0	30.0	128.0	219.7	239.5	264.3	201.7	139.0	76.3	35.0
		IDC	0.2	1.3	5.9	13.8	18.7	10.4				
		Interest Charge						10.4	19.8	15.1	10.4	5.7
Ban Chat	ODA Loans	Borrowings				3.0	24.0	89.0	103.0	55.0	69.0	
		Repayment								13.7	17.2	17.2
		Balance		0.0	3.0	27.0	116.0	219.0	274.0	329.3	312.2	295.0
		IDC			0.0	0.3	1.6	3.7	5.4	3.4		
		Interest Charge								3.4	7.2	6.9
	Commercial Borrowings	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										

Projects	B/K		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Huoi Quang	ODA Loans	Borrowings					5.0	38.0	142.0	164.0	88.0	110.0
		Repayment										21.9
		Balance				0.0	5.0	43.0	185.0	349.0	437.0	525.2
		IDC					0.1	0.5	2.5	5.9	4.3	
		Interest Charge									4.3	10.8
	Commercial Borrowings	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
Hua Na	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings					2.0	16.0	58.0	67.0	36.0	45.0
		Repayment								12.7	23.8	29.8
		Balance				0.0	2.0	18.0	76.0	130.3	142.5	157.7
		IDC					0.1	0.8	3.5	8.2	11.1	6.2
		Interest Charge										6.2
Son La	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings	49.0	74.0	74.0	148.0	246.0	271.0	320.0	246.0	246.0	
		Repayment					32.8	57.5	98.5	143.7	197.0	238.0
		Balance	0.0	49.0	123.0	197.0	312.2	500.7	673.2	849.5	898.5	906.5
		IDC		1.8	6.5	12.0	20.3	32.6	47.7	62.5	72.9	38.3
		Interest Charge										38.3
Ban Uon	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings								2.0	14.0	54.0
		Repayment										
		Balance							0.0	2.0	16.0	70.0
		IDC								0.1	0.7	3.2
		Interest Charge										
Lai Chau	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings							29.0	43.0	143.0	
		Repayment										
		Balance						0.0	29.0	72.0	215.0	
		IDC							1.1	3.8	10.8	
		Interest Charge										
Bac Me	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings									4.0	
		Repayment									0.0	4.0
		Balance									0.2	
		IDC										
		Interest Charge										
PSPP 1	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings							20.0	29.0		
		Repayment								3.3		
		Balance							0.0	20.0	45.7	
		IDC								0.8	2.6	
		Interest Charge										
UB Ext 1	ODA Loans 13y	Borrowings	8.5	53.0	33.1							
		Repayment			4.7	7.3	7.3	7.3	7.3	7.3	7.3	
		Balance	8.5	61.5	89.9	82.6	75.3	68.0	60.8	53.5	46.2	38.9
		IDC	0.3	2.1	2.3							
		Interest Charge			2.3	5.6	5.2	4.7	4.3	3.9	3.4	3.0
	Commercial Borrowings	Borrowings	18.5	115.0	71.9							
		Repayment			16.7	25.7	25.7	25.7	25.7	25.7	25.7	
		Balance	18.5	133.5	188.7	163.0	137.4	111.7	86.0	60.3	34.7	9.0
		IDC	0.9	7.2	8.0							
		Interest Charge			8.0	19.1	16.7	14.3	11.8	9.4	7.0	4.5
UB Ext 2	ODA Loans 13y	Borrowings				8.5	53.0	33.1				
		Repayment						4.7	7.3	7.3	7.3	
		Balance			0.0	8.5	61.5	89.9	82.6	75.3	68.0	60.8
		IDC			0.3	2.1	2.3					
		Interest Charge					2.3	5.6	5.2	4.7	4.3	
	Commercial Borrowings	Borrowings				18.5	115.0	71.9				
		Repayment						16.7	25.7	25.7	25.7	
		Balance			0.0	18.5	133.5	188.7	163.0	137.4	111.7	86.0
		IDC				0.9	7.2	8.0				
		Interest Charge					8.0	19.1	16.7	14.3	11.8	

Projects	B/K		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Hai Phong 1 JV	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings	30.0	185.0	116.0							
		Repayment				55.2	55.2	55.2	55.2	55.2	55.2	
		Balance	0.0	30.0	215.0	331.0	275.8	220.7	165.5	110.3	55.2	0.0
		IDC		1.1	9.2	10.2						
		Interest Charge				10.2	24.8	20.7	16.6	12.4	8.3	4.1
Hai Phong 2 JV	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings	30.0	185.0	116.0							
		Repayment					55.2	55.2	55.2	55.2	55.2	
		Balance	0.0	30.0	215.0	331.0	275.8	220.7	165.5	110.3	55.2	
		IDC		1.1	9.2	10.2						
		Interest Charge				10.2	24.8	20.7	16.6	12.4	8.3	
Ninh Binh Ex.	ODA Loans 20y	Borrowings	30.0	185.0	116.0							
		Repayment									16.6	16.6
		Balance	0.0	30.0	215.0	331.0	331.0	331.0	314.5	297.9	281.4	
		IDC		0.3	2.7	3.0						
		Interest Charge				3.0	7.3	7.3	7.3	6.9	6.6	
	Commercial Borrowings	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
Quang Ninh 1 JV	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings		30.0	185.0	116.0						
		Repayment					55.2	55.2	55.2	55.2	55.2	
		Balance	0.0	30.0	215.0	331.0	275.8	220.7	165.5	110.3		
		IDC		1.1	9.2	10.2						
		Interest Charge				10.2	24.8	20.7	16.6	12.4		
Quang Ninh 2 JV	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings		30.0	185.0	116.0						
		Repayment						55.2	55.2	55.2	55.2	
		Balance	0.0	30.0	215.0	331.0	275.8	220.7	165.5	110.3		
		IDC		1.1	9.2	10.2						
		Interest Charge				10.2	24.8	20.7	16.6	12.4		
Quang Ninh 3 JV	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings			30.0	185.0	116.0					
		Repayment							55.2	55.2	55.2	
		Balance	0.0	30.0	215.0	331.0	275.8	220.7	165.5	110.3		
		IDC		9.2	10.2							
		Interest Charge				10.2	24.8	20.7	16.6	12.4		
Quang Ninh 4 JV	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings			30.0	185.0	116.0					
		Repayment							55.2	55.2	55.2	
		Balance	0.0	30.0	215.0	331.0	275.8	220.7	165.5	110.3		
		IDC		1.1	9.2	10.2						
		Interest Charge				10.2	24.8	20.7	16.6	12.4		
Nghi Son 1	ODA Loans	Borrowings				30.0	185.0	116.0				
		Repayment									0.0	
		Balance			0.0	30.0	215.0	331.0	331.0	331.0	331.0	
		IDC			0.3	2.7	3.0					
		Interest Charge						3.0	7.3	7.3	7.3	
	Commercial Borrowings	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
Nghi Son 2	ODA Loans	Borrowings				30.0	185.0	116.0				
		Repayment									0.0	
		Balance	0.0	30.0	215.0	331.0	331.0	331.0	331.0	331.0	331.0	
		IDC		0.3	2.7	3.0						
		Interest Charge						3.0	7.3	7.3	7.3	
	Commercial Borrowings	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										

Projects	B/K		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Mong Duong 1	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings						42.0	263.0	164.0		
		Repayment									78.2	
		Balance					0.0	42.0	305.0	469.0	390.8	
		IDC						1.6	13.0	14.5		
		Interest Charge								14.5	35.2	
Se San 3	ODA Loans 10y	Borrowings	19.3	10.9	31.9	25.1						
		Repayment					9.1	9.1	9.1	9.1	9.1	
		Balance	22.9	33.8	65.7	90.8	81.7	72.6	63.6	54.5	45.4	
		IDC	0.6	1.2	2.2	1.7						
		Interest Charge					1.7	4.0	3.6	3.2	2.8	2.4
	Commercial Borrowings	Borrowings	58.9	29.1	85.1	66.9						
		Repayment		8.7	12.9	25.0	34.6	34.6	34.6	34.6	25.9	13.0
		Balance	61.1	81.5	153.7	195.5	160.9	126.3	91.7	57.1	31.3	18.3
		IDC	2.9	6.9	11.3	8.5						
		Interest Charge					8.5	17.8	14.6	11.5	8.3	5.2
A Vuong	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings	15.0	54.0	63.0	33.0	42.0					
		Repayment				22.0	27.5	34.5	34.5	34.5	34.5	12.5
		Balance	15.0	69.0	132.0	143.0	157.5	123.0	88.5	54.0	19.5	7.0
		IDC	0.6	3.2	7.5	11.1	6.2					
		Interest Charge					6.2	11.8	9.2	6.6	4.1	1.5
Dak Drinh	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings	12.0	45.0	52.0	28.0	35.0					
		Repayment				18.2	22.8	28.7	28.7	28.7	28.7	10.5
		Balance	12.0	57.0	109.0	118.8	131.0	102.3	73.7	45.0	16.3	5.8
		IDC	0.5	2.6	6.2	9.2	5.1					
		Interest Charge					5.1	9.8	7.7	5.5	3.4	1.2
Quang Tri(Rao Quan)	ODA Loans 12y	Borrowings	3.2	11.4	13.1	6.8	8.6					
		Repayment				2.3	2.9	3.6	3.6	3.6	3.6	3.6
		Balance	3.2	14.6	27.7	32.2	37.9	34.3	30.7	27.1	23.6	20.0
		IDC	0.1	0.5	1.3	1.9	1.1					
		Interest Charge					1.1	2.3	2.1	1.8	1.6	1.4
	Commercial Borrowings	Borrowings	5.8	20.6	23.9	12.2	15.4					
		Repayment				8.4	10.4	13.0	13.0	13.0	13.0	4.6
		Balance	5.8	26.4	50.3	54.1	59.1	46.1	33.1	20.2	7.2	2.6
		IDC	0.2	1.2	2.9	4.2	2.3					
		Interest Charge					2.3	4.4	3.5	2.5	1.5	0.5
Buon Cuop	ODA Loans 20y	Borrowings		3.0	21.0	79.0	92.0					
		Repayment					5.2	9.8	9.8	9.8	9.8	
		Balance	0.0	3.0	24.0	103.0	189.9	180.1	170.4	160.6	150.9	141.1
		IDC		0.0	0.3	1.4	3.3	2.1				
		Interest Charge					2.1	4.0	3.7	3.5	3.3	
	Commercial Borrowings	Borrowings						49.0	61.0			
		Repayment									18.3	15.3
		Balance					0.0	49.0	110.0	110.0	91.7	76.4
		IDC						0.9				
		Interest Charge						0.9	6.0	8.3	8.3	6.9
Plei Krong	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings	2.0	14.0	51.0	59.0	32.0	40.0				
		Repayment				11.2	21.0	26.3	33.0	33.0	33.0	21.8
		Balance	2.0	16.0	67.0	114.8	125.8	139.5	106.5	73.5	40.5	18.7
		IDC	0.1	0.7	3.1	7.2	9.8	5.5				
		Interest Charge						5.5	10.5	8.0	5.5	3.0
An Khe-Ka Nak JV	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings		2.0	13.0	48.0	55.0	29.0	37.0			
		Repayment					10.5	19.7	24.5	30.7	30.7	30.7
		Balance	0.0	2.0	15.0	63.0	107.5	116.8	129.3	98.7	68.0	37.3
		IDC		0.1	0.6	2.9	6.8	9.2	5.1			
		Interest Charge							5.1	9.7	7.4	5.1
Buon Tua Srah	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings		1.0	9.0	32.0	37.0	20.0	25.0			
		Repayment					7.0	13.2	16.5	20.7	20.7	20.7
		Balance	0.0	1.0	10.0	42.0	72.0	78.8	87.3	66.7	46.0	25.3
		IDC		0.0	0.4	2.0	4.5	6.2	3.4			
		Interest Charge							3.4	6.6	5.0	3.5

Projects	B/K		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Song Tranh 2	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings		2.0	13.0	50.0	58.0	31.0	38.0			
		Repayment					10.8	20.5	25.7	32.0	32.0	32.0
		Balance	0.0	2.0	15.0	65.0	112.2	122.7	135.0	103.0	71.0	39.0
		IDC		0.1	0.6	3.0	7.1	9.6	5.3			
		Interest Charge						5.3	10.1	7.7	5.3	
Srepok 3	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings		2.0	17.0	64.0	74.0	39.0	49.0			
		Repayment					13.8	26.2	32.7	40.8	40.8	40.8
		Balance	0.0	2.0	19.0	83.0	143.2	156.0	172.3	131.5	90.7	49.8
		IDC		0.1	0.8	3.8	9.0	12.2	6.8			
		Interest Charge						6.8	12.9	9.9	6.8	
Song Ba Ha	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings			3.0	20.0	73.0	84.0	45.0	56.0		
		Repayment						16.0	30.0	37.5	46.8	
		Balance	0.0		3.0	23.0	96.0	164.0	179.0	197.5	150.7	
		IDC		0.1	1.0	4.5	10.4	14.0	7.8			
		Interest Charge						7.8		14.8		
Song Con 2	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings		1.0	7.0	26.0	30.0	16.0	20.0			
		Repayment					5.7	10.7	13.3	16.7	16.7	
		Balance	0.0	1.0	8.0	34.0	58.3	63.7	70.3	53.7	37.0	
		IDC		0.0	0.3	1.6	3.7	5.0	2.8			
		Interest Charge						2.8	5.3	4.0		
Upper Kontum	ODA Loans	Borrowings			3.0	19.0	72.0	83.0	44.0	56.0		
		Repayment								11.1	13.3	
		Balance	0.0		3.0	22.0	94.0	177.0	221.0	266.0	252.7	
		IDC		0.0	0.3	1.3	3.0	4.4	2.7			
		Interest Charge							2.7	5.9		
	Commercial Borrowings	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
Dak Mi 4	ODA Loans	Borrowings		3.0	18.0	66.0	76.0	41.0	51.0			
		Repayment							10.2	12.8		
		Balance	0.0	3.0	21.0	87.0	163.0	204.0	244.8	232.1		
		IDC		0.0	0.3	1.2	2.8	4.0	2.5			
		Interest Charge						2.5	5.4			
	Commercial Borrowings	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
Se San 4	ODA Loans	Borrowings				4.0	26.0	95.0	109.0	58.0		
		Repayment										
		Balance			0.0	4.0	30.0	125.0	234.0	292.0		
		IDC			0.0	0.4	1.7	3.9	2.9			
		Interest Charge							2.9			
	Commercial Borrowings	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
Song Bung 4	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings				3.0	20.0	74.0	86.0			
		Repayment							16.2			
		Balance				0.0	3.0	23.0	97.0	166.8		
		IDC				0.1	1.0	4.5	10.5			
		Interest Charge										
Song Bung 2	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge							2.0			
	Commercial Borrowings	Borrowings							0.0	2.0		
		Repayment								0.1		
		Balance								1		
		IDC										
		Interest Charge										

Projects	B/K		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Dai Ninh	ODA Loans	Borrowings	55.0	53.0	103.0	113.0	107.0					
		Repayment						21.6	21.6	21.6	21.6	21.6
		Balance	55.0	108.0	211.0	324.0	431.0	409.5	387.9	366.4	344.8	323.3
		IDC	0.6	1.8	3.5	5.9	4.2					
		Interest Charge					4.2	9.5	9.0	8.5	8.1	7.6
	Commercial Borrowings	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
Thac Mo EX.	ODA Loans 20y	Borrowings		1.4	7.2	10.1	10.9	7.2				
		Repayment							1.8	1.8	1.8	1.8
		Balance	0.0	1.4	8.6	18.7	29.6	36.8	35.0	33.1	31.3	29.4
		IDC		0.0	0.1	0.3	0.5	0.4				
		Interest Charge						0.4	0.8	0.8	0.7	0.7
	Commercial Borrowings	Borrowings		0.6	2.8	3.9	4.1	2.8				
		Repayment					1.2	1.9	2.4	2.4	2.4	2.4
		Balance	0.0	0.6	3.4	7.3	10.2	11.1	8.7	6.4	4.0	1.6
		IDC		0.0	0.2	0.4	0.7	0.4				
		Interest Charge						0.4	0.8	0.7	0.5	0.3
Dong Nai 3,4	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings		7.0	49.0	181.0	209.0	112.0	139.0			
		Repayment					39.5	74.3	93.0	116.2	116.2	
		Balance	0.0	7.0	56.0	237.0	406.5	444.2	490.2	374.0	257.8	
		IDC		0.3	2.4	11.0	25.6	34.7	19.3			
		Interest Charge							19.3	36.8	28.1	
Dong Nai 2	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings								6.0	37.0	
		Repayment										
		Balance								0.0	6.0	43.0
		IDC									0.2	1.8
		Interest Charge										
Dong Nai 5	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings							3.0	19.0	69.0	
		Repayment										
		Balance							0.0	3.0	22.0	91.0
		IDC								0.1	0.9	4.2
		Interest Charge										
O Mon 1	ODA Loans 15y	Borrowings	44.0	67.0	222.0	107.0	32.0					
		Repayment						31.5	31.5	31.5	31.5	31.5
		Balance	44.0	111.0	333.0	440.0	472.0	440.5	409.1	377.6	346.1	314.7
		IDC	0.5	1.7	4.9	4.3	5.0					
		Interest Charge				4.3	5.0	10.4	9.7	9.0	8.3	7.6
	Commercial Borrowings	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
PM2-1 ST	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings	44.0									
		Repayment	6.0	12.3	12.3	12.3	12.3	12.3	12.3	6.3		
		Balance	80.0	67.7	55.4	43.1	30.9	18.6	6.3	0.0	0.0	0.0
		IDC	1.9									
		Interest Charge	1.9	4.8	4.8	4.8	4.8	4.8	4.8	4.8		
PM2-1 Ext ST	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings	3.0	38.0	43.0							
		Repayment				12.0	12.0	12.0	12.0	12.0	12.0	12.0
		Balance	3.0	41.0	84.0	72.0	60.0	48.0	36.0	24.0	12.0	0.0
		IDC	0.1	1.3	1.9							
		Interest Charge			1.9	5.0	4.3	3.6	2.9	2.2	1.4	0.7
PM4	ODA Loans 12y	Borrowings	80.4									
		Repayment		8.0	8.0	8.0	8.0	8.0	8.0	8.0		
		Balance	95.9	87.9	79.9	71.9	63.9	55.9	48.0	40.0	40.0	40.0
		IDC	1.5									
		Interest Charge	1.5	5.2	4.7	4.3	3.9	3.5	3.0	2.6		
	Commercial Borrowings	Borrowings	122.3									
		Repayment		18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	
		Balance	128.7	110.3	91.9	73.5	55.2	36.8	18.4	0.0	0.0	0.0
		IDC	2.5									
		Interest Charge	2.5	9.7	8.3	6.9	5.5	4.1	2.8	1.4		

Projects	B/K		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
O Mon 2	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings									18.0	203.0
		Repayment										
		Balance									0.0	18.0
		IDC									0.7	9.0
		Interest Charge										
Nhon Trach 1	ODA Loans	Borrowings		7.0	81.0	92.0						
		Repayment									9.0	9.0
		Balance	0.0	7.0	88.0	180.0	180.0	180.0	171.0	162.0	153.0	
		IDC		0.1	1.0	1.5						
		Interest Charge				1.5	4.0	4.0	4.0	3.8	3.6	
	Commercial Borrowings	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
Nhon Trach 2	ODA Loans	Borrowings			7.0	81.0	92.0					
		Repayment									9.0	9.0
		Balance	0.0	7.0	88.0	180.0	180.0	180.0	171.0	162.0	153.0	
		IDC		0.1	1.0	1.5						
		Interest Charge				1.5	4.0	4.0	4.0	3.8	3.6	
	Commercial Borrowings	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
New Coal 1	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings									50.0	308.0
		Repayment										
		Balance									0.0	358.0
		IDC									1.9	15.3
		Interest Charge										17.0
New Coal 2	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings										50.0
		Repayment										
		Balance									0.0	50.0
		IDC										1.9
		Interest Charge										
New Coal 3	ODA Loans	Borrowings										
		Repayment										
		Balance										
		IDC										
		Interest Charge										
	Commercial Borrowings	Borrowings										50.0
		Repayment										
		Balance									0.0	50.0
		IDC										1.9
		Interest Charge										
500kV	ODA Loans	Borrowings	145.4	151.9	148.1	32.1	25.1	28.3	32.1	26.7	64.3	64.3
		Repayment			16.6	24.0	25.6	26.9	28.3	29.9	31.3	34.5
		Balance	180.7	332.6	464.1	472.1	471.6	473.0	476.8	473.6	506.6	536.5
		IDC	2.4	5.8	9.1	10.8	10.9	10.9	11.0	11.0	11.4	12.1
		Interest Charge	2.4	5.8	9.1	10.8	10.9	10.9	11.0	11.0	11.4	12.1
	Commercial Borrowings	Borrowings	121.6	127.1	123.9	26.9	20.9	23.7	26.9	22.3	53.7	53.7
		Repayment	1.1	21.3	42.5	63.2	67.6	71.1	74.0	58.2	40.8	29.1
		Balance	126.9	232.6	314.0	277.8	231.1	183.6	136.5	100.6	113.5	138.2
		IDC	2.5	7.1	11.0	12.3	10.8	9.1	7.4	5.5	4.8	5.3
		Interest Charge	2.5	7.1	11.0	12.3	10.8	9.1	7.4	5.5	4.8	5.3
220kV	ODA Loans	Borrowings	71.6	78.4	76.7	64.9	51.0	57.7	65.3	53.9	31.6	31.6
		Repayment	2.5	6.1	10.0	13.9	17.1	19.6	22.5	25.8	28.5	30.1
		Balance	119.4	191.7	258.4	309.4	343.3	381.4	424.2	452.3	455.4	456.9
		IDC	2.9	5.3	7.7	9.7	11.2	12.5	13.9	15.1	15.7	15.8
		Interest Charge	2.9	5.3	7.7	9.7	11.2	12.5	13.9	15.1	15.7	15.8
	Commercial Borrowings	Borrowings	98.4	107.6	105.3	89.1	70.0	79.3	89.7	74.1	43.4	43.4
		Repayment	13.8	30.2	48.1	65.6	80.5	92.2	91.6	90.2	84.6	74.3
		Balance	167.2	244.6	301.8	325.3	314.8	302.0	300.0	284.0	242.8	211.9
		IDC	4.9	8.3	11.1	13.0	13.5	13.3	13.0	12.6	11.5	9.9
		Interest Charge	4.9	8.3	11.1	13.0	13.5	13.3	13.0	12.6	11.5	9.9
110kV	ODA Loans	Borrowings	242.0	280.0	320.0	167.0	131.0	148.0	167.0	138.0	184.0	184.0
		Repayment	1.3	13.4	27.4	43.4	51.8	58.3	65.7	74.1	81.0	90.2
		Balance	266.7	533.3	825.9	949.5	1,028.8	1,118.5	1,219.8	1,283.7	1,386.8	1,480.6
		IDC	5.1	14.0	23.9	31.4	35.0	38.0	41.5	44.5	47.5	51.0
		Interest Charge	5.1	14.0	23.9	31.4	35.0	38.0	41.5	44.5	47.5	51.0
	Commercial Borrowings	Borrowings										
		Repayment	19.9	19.9	19.9	19.9	19.9	19.9	0.0	0.0	0.0	0.0
		Balance	99.6	79.7	59.8	39.8	19.9	0.0	0.0	0.0	0.0	0.0
		IDC	4.5	3.7	3.0	2.2	1.5	0.7	0.0	0.0	0.0	0.0
		Interest Charge	4.5	3.7	3.0	2.2	1.5	0.7	0.0	0.0	0.0	0.0

Projects	B/K		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Distribution	ODA Loans	Borrowings					255.0	288.0	326.0	269.0	234.0	234.0
		Repayment	4.3	4.3	4.3	4.3	4.3	17.0	31.4	47.7	61.2	72.9
		Balance	80.8	76.6	72.3	68.1	318.8	589.8	884.4	1,105.7	1,278.6	1,439.7
		IDC	2.8	2.6	2.5	2.4	6.4	15.0	24.5	33.1	39.7	45.4
		Interest Charge	2.8	2.6	2.5	2.4	6.4	15.0	24.5	33.1	39.7	45.4
	Commercial Borrowings	Borrowings										
		Repayment	21.6	21.6	21.6	21.6	21.6	21.6	0.0	0.0	0.0	0.0
		Balance	108.0	86.4	64.8	43.2	21.6	0.0	0.0	0.0	0.0	0.0
		IDC	4.9	4.1	3.2	2.4	1.6	0.8	0.0	0.0	0.0	0.0
		Interest Charge	4.9	4.1	3.2	2.4	1.6	0.8	0.0	0.0	0.0	0.0
Total Borrowings	ODA Loans	Borrowings	694.8	743.2	1,054.2	936.9	1,210.9	997.3	1,342.4	1,132.6	817.9	681.9
		Repayment	78.5	103.1	142.4	181.2	210.9	299.2	329.7	398.5	439.7	482.9
		Balance	1,967.9	2,608.1	3,519.9	4,275.6	5,275.5	5,973.6	6,986.3	7,720.4	8,098.7	8,252.2
		IDC	17.0	36.8	62.1	79.7	90.6	90.1	110.2	129.1	127.8	127.2
		Interest Charge	42.7	59.3	74.8	92.7	115.1	153.3	170.6	187.0	210.9	228.2
	Commercial Borrowings	Borrowings	563.0	762.8	1,176.8	1,166.1	1,398.1	1,395.7	1,398.6	1,286.4	1,101.1	1,308.1
		Repayment	156.2	232.4	275.0	394.0	604.7	842.1	995.0	1,143.0	1,313.8	1,310.0
		Balance	1,072.4	1,602.9	2,504.7	3,276.8	4,070.2	4,623.8	5,027.4	5,170.7	4,958.1	4,956.2
		IDC	27.9	56.6	108.4	152.1	170.1	174.0	172.5	162.5	149.4	122.8
		Interest Charge	42.9	53.6	60.1	87.1	137.7	194.0	239.9	275.5	286.6	303.8
TOTAL	TOTAL	Borrowings	1,257.8	1,506.0	2,231.0	2,103.0	2,609.0	2,393.0	2,741.0	2,419.0	1,919.0	1,990.0
		Repayment	234.7	335.4	417.3	575.2	815.6	1,141.4	1,324.7	1,541.5	1,753.4	1,792.9
		Balance	3,040.3	4,210.9	6,024.6	7,552.4	9,345.7	10,597.4	12,013.7	12,891.1	13,056.7	13,208.4
		IDC	44.9	93.4	170.5	231.7	260.7	264.1	282.8	291.6	277.2	250.0
		Interest Charge	85.6	112.9	134.9	179.8	252.8	347.4	410.4	462.4	497.5	532.0