

Availability at Daily Maximum Demand Hour

ST-Coal	2,420 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,303 MW
Hydro	1,840 MW
Distillate	0 MW
Total TNB	7,563 MW
Total IPP	10,796 MW
Total Co-Gen	76 MW
Total System	19,005 MW

Generation Mix

Type	MWh	Percentage
ST-Coal	42,716	14.14 %
Gas	39,263	13.00 %
Hydro	21,140	7.00 %
Total TNB	103,119	34.14 %
ST-Coal	112,281	37.17 %
Gas	86,404	28.60 %
Total IPP	198,685	65.78 %
Co-Gen	1,319	0.44 %
Total Co-Gen	1,319	0.44 %
Total Generation	303,123	100.35 %
PLTG	333	0.11 %
HVDC	727	0.24 %
Interconnection	1,060	0.35 %
Net Energy	302,063	100.00 %

Maximum Demand Record

Date: 6/11/2014	16,901 MW
Date: 6/24/2014	355,911 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	20:00:00 Hour
Total Set On Bus	14,916 MW
TNB Generation	5,379 MW
IPP Generation	8,522 MW
Spinning Reserve	958 MW
Maximum Demand	13,926 MW
Net Energy	302,063 MWH
Load Factor	90.37 %

Fuel Cost

Average Spinning Reserve During Peak Hour

Type	MW
GT	545
Hydro	161
Syncon	254
Thermal	63
Total	1,023

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	59
PGGS	2
PGPS	52
SRDG	10
TJGS	165
Total TNB	288
KLPP	106
PDPS	3
PGLA	96
PKLG	2
PLPS	98
SGB3	87
SGRI	157
SKSP	52
YPKA	68
Total IPP	670
Total Gas	957
Total Gas Required	957

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Hourly System MW Generation

	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
System Total	12961	12379	11663	11480	11255	10998	11092	11161	10929	12031	12674	13379	13304	13038	13362	13364	13409	13091	12749	12755	13927	13812	13550	13182

(Gurcharan Singh)

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Pengurus Besar Kanan
Jabatan Sistem Operasi

Checked By: Kannathason a/l Karuppiyah

Prepared By: Siti Nurhamizatul Aini



Daily MW Generation on Saturday

Station	Unit	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300																													
TMGR	HY02	77	77	79	78	32	35	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	78	84	84	83	80	33	31	79	82	83	78	61	61	58	56	-1	-1	-1	-1	64	85	82	82	82	55	89	87	37									
TMGR	HY03	77	78	80	79	33	33	32	0	0	0	0	0	0	0	0	84	82	84	84	84	83	83	83	81	84	83	81	62	60	59	59	59	0	0	0	0	62	86	83	85	83	58	87	86	60								
TMGR	HY04	74	75	76	75	35	35	-1	-1	-1	-1	-1	-1	-1	-1	-1	80	77	81	80	80	79	35	34	77	80	78	77	60	59	57	-1	-1	-1	-1	61	81	79	80	78	57	83	82	37										
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5						
UPIA	HY02	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
Total Hydro		1035	1036	1047	1041	893	716	639	536	533	536	535	547	557	548	545	530	525	532	569	934	1107	1162	1276	1387	1379	1066	935	989	1030	1113	1139	1023	1015	1005	759	669	534	542	549	975	1367	1191	1101	941	878	1230	1079	869					
Total Distillate		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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PCUF	CUFG	14	13	13	13	13	13	13	15	15	15	15	16	15	15	16	15	16	16	14	15	15	16	15	16	15	16	15	15	15	15	16	16	16	16	16	15	17	17	16	17	17	15	16	16	15	17	17	17	17				
PCUF	CUFK	40	40	40	39	40	41	41	39	40	40	41	41	39	40	40	41	41	41	41	40	39	39	39	39	39	38	39	40	39	38	38	37	38	40	39	41	40	40	40	40	40	40	40	39	39	40	39	40	39				
Total Co-Gen		54	53	53	52	53	54	54	52	55	55	56	56	55	55	55	59	57	56	56	55	57	57	54	54	54	55	54	54	54	55	56	53	53	52	54	56	54	58	57	56	57	57	55	56	55	54	57	56	57	56			
Total Gen		13043	12610	12469	12118	11721	11772	11493	11339	11296	11275	11085	11165	11182	11190	11206	10987	10984	11852	12074	12458	12729	13153	13393	13541	13495	13180	13126	13270	13361	13427	13403	13456	13419	13407	13167	13107	12780	12711	12771	13426	13958	13929	13891	13802	13634	13425	13212	13042					
TIE-EGAT		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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TIE-HVDC		30	30	30	30	30	30	30	30	30	31	31	30	30	30	30	30	30	30	31	31	31	31	31	31	31	31	31	31	30	30	30	30	31	31	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	31	31	31	31
TIE-PLTG		52	71	59	21	28	3	-17	26	11	25	57	-50	59	3	15	8	25	21	13	-28	24	-38	-17	29	71	38	57	35	-31	-23	8	-28	-20	-24	46	14	0	5	-14	-16	1	21	50	26	54	5	-1	-9					
Interconnection		82	102	90	51	58	33	13	55	41	56	87	-20	90	33	45	39	55	51	43	2	55	-8	14	59	101	69	88	65	-1	7	39	2	10	7	76	45	31	35	16	14	31	50	79	57	84	36	30	22					
System Total		12961	12508	12379	12067	11663	11739	11480	11284	11255	11219	10998	11185	11092	11157	11161	10948	10929	11501	12031	12456	12674	13161	13379	13482	13304	13111	13038	13205	13362	13420	13364	13454	13409	13400	13091	13062	12749	12676	12755	13412	13927	13879	13812	13745	13550	13389	13182	13020					
SRev ST-Coal		30	28	69	54	65	73	57	47	22	34	112	105	29	167	106	101	278	281	109	55	144	41	59	94	24	152	36	60	68	68	54	20	58	54	57	40	79	63	51	13	107	90	186	79	72	13	42	36					
SRev OCGT-Gas		172	144	122	41	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	0	6	6	6	7	0	0	0	0	0					
SRev CCGT-Gas		448	402	291	419	474	304	522	643	711	723	935	984	1045	1000	1000	1423	1642	1287	1134	1028	943	677	630	558	763	748	786	672	592	622	687	549	540	545	538	527	678	565	523	441	503	541	541	577	523	442	478	443					
SRev ST-Gas		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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SRev Co-Gen		22	23	23	24	23	22	22	24	21	21	20	20	21	21	21	17	19	20	20	21	19	19	22	22	21	22	22	22	21	20	23	23	24	22	20	22	18	19	20	19	19	21	20	21	22	19	20	20	20				
Syncon		453	453	453	453	302	453	629	629	629	629	629	629	478	629	629	629	629	629	453	151	302	151	151	151	453	453	453	302	302	151	151	151	390	478	629	629	629	453	151	453	453	453	453	0	0	453							
Hydro		139	138	127	133	432	308	209	104	107	104	105	93	234	92	95	108	113	106	120	61	340	184	221	149	157	168	249	148	258	175	325	466	474	484	291	230	108	100	93	262	172	46	136	46	133	254	405	162					
S.Reserve Total		1264	1188	1085	1124	1296	1160	1439	1447	1490	1511	1801	1831	1807	1909	1851	2278	2681	2323	2012	1618	1597	1223	1083	974	1117	1542	1546	1355	1242	1188	1237	1209	1246	1258	1298	1295	1516	1375	1315	1189	958	1155	1343	1182	1202	731	944	1114					