

Daily System Generation Summary on Friday

Friday, August 12, 2016

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,694 MW
Hydro	2,164 MW
Distillate	0 MW
Total TNB	5,858 MW
Total IPP	15,761 MW
Total Co-Gen	20 MW
Total System	21,639 MW

Maximum Demand Record

Date: 4/20/2016	17,788 MW
Date: 4/20/2016	372,457 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:00:00 Hour
Total Set On Bus	17,625 MW
TNB Generation	3,512 MW
IPP Generation	12,439 MW
Spinning Reserve	1,660 MW
Maximum Demand	15,999 MW
Net Energy	341,833 MWH
Load Factor	89.02 %

Gas Usage

Station	(mmscfd)
GLGR	40
PAKA	155
PGPS	37
TJGS	182
Total TNB	414
CBPS	47
KLPP	89
NPRI	145
PGLA	101
PLPS	89
SGRI	176
Total IPP	647
Total Gas	1,061
Total Gas Required	1,066

Alternate Fuel Usage

Station	(mmscfd)
PKLG	5
Total	5

Generation Mix

Type	MWh	Percentage
Gas	55,956	16.37 %
Hydro	8,296	2.43 %
Total TNB	64,252	18.80 %
ST-Coal	189,290	55.37 %
ST-Oil	501	0.15 %
Gas	87,870	25.71 %
Total IPP	277,661	81.23 %
Co-Gen	319	0.09 %
Total Co-Gen	319	0.09 %
Total Generation	342,232	100.12 %
PLTC	239	0.07 %
HVDC	160	0.05 %
Interconnection	399	0.12 %
Net Energy	341,833	100.00 %

Fuel Cost

Total Cost:	43,502,139.00 RM
Cost per Unit	13.02 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	612
Hydro	199
Syncon	805
Thermal	170
Total	1,786

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

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	13935	13325	12713	12466	12211	11986	12193	12087	12379	14033	14947	15558	15576	15089	15370	15936	15999	15728	14652	14472	15535	15539	14950	14722

Prepared By: Siti Nurhamizatul Aini

Checked By: -Select Name-

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(Gurcharan Singh)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Friday

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																											
Total Hydro		235	189	185	176	207	183	184	186	202	179	169	169	211	183	173	179	187	209	204	320	335	339	429	598	269	225	219	335	477	515	654	640	673	674	565	205	184	184	187	524	851	796	732	613	418	269	200	192			
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	CUFK	14	14	12	13	13	13	14	14	14	14	14	14	13	13	13	12	13	14	13	14	13	13	14	13	13	14	12	13	14	13	12	13	13	14	14	14	14	14	13	13	13	14	13	12	12	13	13	15	14	14	
Total Co-Gen		14	14	12	13	13	13	14	14	14	14	14	13	13	13	12	13	14	13	14	13	13	14	13	13	14	13	12	13	13	14	14	14	14	14	14	14	14	13	13	13	14	13	12	12	13	13	15	14	14		
Total Gen		14002	13584	13390	13087	12788	12661	12486	12429	12272	12119	12035	12015	12228	12319	12194	12080	12427	13374	14035	14541	15004	15366	15594	15756	15548	15321	15105	15234	15396	15611	15889	15941	15965	15928	15747	15137	14647	14286	14397	15244	15539	15582	15500	15339	14946	14856	14684	14498			
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	
TIE-HVDC		31	31	30	30	31	31	31	31	30	30	29	29	30	30	30	30	29	29	30	30	29	29	30	30	29	29	30	31	31	29	-29	-30	-30	-30	-30	-29	-29	-29	-29	-30	-30	-30	-30	-29	-29	-28	-28	-29	-29		
TIE-PLTG		36	7	35	12	43	-12	-11	24	30	2	20	67	5	33	77	24	17	23	-28	55	27	24	7	-10	-58	-18	-14	-24	-4	3	-18	-6	-4	16	48	21	24	-15	-45	-18	34	17	-10	23	24	6	-9	0			
Interconnection		67	38	65	43	75	19	20	55	61	32	49	96	35	63	107	54	48	53	2	84	57	54	36	19	-28	12	16	7	26	-26	-47	-35	-34	-14	19	-9	-5	-44	-75	-48	4	-13	-39	-6	-4	-23	-38	-29			
System Total		13935	13566	13325	13044	12713	12642	12466	12374	12211	12087	11985	11919	12193	12256	12087	12036	12379	13321	14033	14457	14947	15312	15558	15737	15576	15309	15089	15227	15370	15637	15936	15976	15999	15942	15728	15146	14652	14330	14472	15292	15535	15575	15539	15345	14950	14879	14722	14527			
SRev ST-Coal		195	200	197	195	227	213	219	223	214	222	214	212	214	215	212	220	152	158	150	185	143	131	196	205	167	202	198	199	204	198	197	200	195	203	188	113	188	167	161	166	137	138	114	104	189	185	180	182			
SRev ST-Oil		40	73	65	33	31	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 OCGT-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 CCGT-Gas		733	944	1031	1249	1499	1578	1749	1804	1986	2108	2190	2211	2038	1918	2035	2138	1808	1172	1261	1109	798	537	413	461	379	523	740	727	701	529	392	428	443	473	560	715	1123	1167	979	465	525	565	587	640	635	782	725	637			
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		6	6	8	7	7	7	6	6	6	6	6	7	7	7	7	8	7	6	7	6	7	6	7	6	8	7	6	7	6	7	8	7	7	6	6	6	6	6	7	7	6	7	8	8	7	7	5	6	6		
Syncon		1076	1076	1076	1076	925	1076	1076	1076	925	1076	1076	925	1076	1076	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	
Hydro		111	107	111	120	240	113	112	110	245	117	127	127	236	113	123	118	110	109	114	161	146	142	105	87	98	102	108	89	83	45	256	250	217	216	359	242	263	263	260	250	249	304	267	386	305	304	247	255			
S.Reserve Total		2161	2406	2488	2680	2929	2987	3162	3219	3376	3529	3613	3633	3420	3329	3454	3408	3001	2371	2456	2387	2019	1741	1647	1685	1575	1760	1978	1946	1920	1705	1500	1684	1660	1697	1761	2001	2506	2529	2332	1585	1490	1587	1649	1810	2135	2075	2083	2005			