

Daily System Generation Summary on Friday

Friday, December 23, 2016

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,288 MW
Hydro	2,510 MW
Distillate	0 MW
Total TNB	5,798 MW
Total IPP	13,126 MW
Total Co-Gen	25 MW
Total System	18,949 MW

Generation Mix

Type	MWh	Percentage
Gas	67,351	21.32 %
Hydro	11,974	3.79 %
Total TNB	79,325	25.10 %
ST-Coal	132,750	42.01 %
Gas	102,384	32.40 %
Total IPP	235,134	74.42 %
Co-Gen	596	0.19 %
Total Co-Gen	596	0.19 %
Total Generation	315,055	99.71 %
PLTG	432	0.14 %
HVDC	-1,351	-0.43 %
Interconnection	-919	-0.29 %
Net Energy	315,974	100.00 %

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:	15:00:00 Hour
Total Set On Bus	17,306 MW
TNB Generation	4,211 MW
IPP Generation	11,442 MW
Spinning Reserve	1,629 MW
Maximum Demand	15,754 MW
Net Energy	315,974 MWH
Load Factor	83.57 %

Fuel Cost

Total Cost:	47,308,890.20 RM
Cost per Unit	14.80 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	500
Hydro	538
Syncon	770
Thermal	133
Total	1,941

Time	Weather	Temperature
Afternoon	Sunny	35
Morning	Cloudy	28

Gas Usage

Station	(mmscfd)
CBPS	44
GLGR	56
PAKA	142
PGPS	51
TJGS	214
Total TNB	507

CBPS	54
KLPP	95
MPSS	50
NPRI	154
PGLA	109
PLPS	90
SGB3	57
SGRI	156
SKSP	1
Total IPP	764

Total Gas 1,271

Total Gas Required 1,271

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	13462	12866	12442	12159	11869	11737	11781	12028	12323	13839	14743	15281	15377	14929	15138	15754	15637	15221	14329	14339	14834	14522	14051	13660

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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
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY01	32	31	32	31	32	32	32	32	32	32	32	30	32	32	33	29	29	35	32	34	30	34	34	35
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UJLI	HY02	93	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UPIA	HY01	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Total Hydro		899	742	360	247	161	167	161	163	161	166	185	161	160	159	159	161	198	165	568	876	870	1010	1135	1252
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
PCUF	CUFG	5	4	5	4	4	4	5	6	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6
PCUF	CUFK	19	16	19	16	17	19	18	18	19	17	18	18	19	17	19	17	20	18	19	19	18	19	17	18
Total Co-Gen		24	20	24	20	21	23	23	24	24	22	23	23	24	24	25	23	25	23	26	24	24	25	22	21
Total Gen		13388	13074	12794	12597	12279	12226	12096	11848	11800	11685	11627	11610	11704	11796	11952	11823	12251	13059	13751	14369	14716	15033	15266	15471
TIE-ECAT		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		-99	-98	-98	-98	-98	-98	-98	-98	-98	-98	-98	-98	-98	-98	-98	-98	-98	-98	-98	-98	-98	-98	-98	-98
TIE-PLTG		25	107	26	132	35	-2	35	24	29	33	-12	-11	21	-10	22	31	27	25	9	2	3	-13	15	
Interconnection		-74	9	-72	34	-63	-100	-63	-74	-69	-65	-110	-109	-77	-108	-76	-68	-72	-72	-88	-28	-27	-42	-13	
System Total		13462	13065	12866	12563	12442	12326	12159	11922	11869	11750	11737	11719	11781	11804	12028	11891	12323	13131	13839	14397	14743	15075	15281	15494
SRev ST-Coal		112	112	111	107	114	152	153	151	154	163	153	151	154	156	147	159	159	170	157	164	172	158	158	
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
SRev CCGT-Gas		1885	1542	1445	1368	1494	1519	1617	1870	1912	2020	2111	2105	2008	1915	1767	1884	1497	1278	1214	949	637	474	362	
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
SRev Co-Gen		1	5	1	5	4	2	2	1	1	3	2	2	1	1	0	2	0	2	-1	1	1	0	3	
Syncon		762	762	737	1014	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266	1266
Hydro		235	392	463	299	133	127	133	131	133	128	109	133	134	135	135	133	96	129	412	729	735	746	645	
S.Reserve Total		2995	2813	2757	2793	3011	3066	3171	3419	3466	3580	3641	3657	3563	3473	3315	3444	3018	2845	2674	2296	1998	1680	1621	