

Daily System Generation Summary on Friday

Friday, March 23, 2018

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,802 MW
Hydro	2,154 MW
Distillate	0 MW
Total TNB	4,956 MW
Total IPP	15,217 MW
Total Co-Gen	60 MW
Total System	20,519 MW

Generation Mix

Type	MWh	Percentage
Gas	42,898	12.19 %
Hydro	11,901	3.38 %
Total TNB	54,799	15.57 %
ST-Coal	187,411	53.26 %
Gas	109,291	31.06 %
Total IPP	296,702	84.31 %
Co-Gen	1,394	0.40 %
Total Co-Gen	1,394	0.40 %
Total Generation	352,895	100.28 %
PLTG	316	0.09 %
HVDC	673	0.19 %
Interconnection	989	0.28 %
Net Energy	351,906	100.00 %

Maximum Demand Record

Date: 10/23/2017	17,790 MW
Date: 3/15/2018	372,493 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:00:00 Hour
Total Set On Bus	17,868 MW
TNB Generation	3,096 MW
IPP Generation	13,242 MW
Spinning Reserve	1,472 MW
Maximum Demand	16,317 MW
Net Energy	351,906 MWH
Load Factor	89.86 %

Fuel Cost

Total Cost:	63,855,278.36 RM
Cost per Unit	18.73 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	410
Hydro	581
Syncon	457
Thermal	120
Total	1,568

Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
CBPS	3
GLGR	51
PGPS	36
TJGS	219
Total TNB	308
CBPS	26
KLPP	96
MPSS	38
NPRI	160
PGLA	108
SGRI	168
SKSP	53
YPKA	80
Total IPP	729
Total Gas	1,037

Total Gas Required 1,037

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	14802	14059	13651	13206	12869	12668	12592	12653	12762	14121	15061	15623	15643	15435	15709	16240	16317	16002	15158	14879	15937	15814	15254	15061

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 (Gurcharan Singh)
 AMPengurus 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																											
JMAH	U002	695	696	695	693	695	694	694	693	694	695	693	694	692	694	692	695	696	694	694	694	696	681	695	693	697	688	695	694	694	695	695	693	693	693	695	696															
JMUG	U001	667	671	680	671	669	673	669	670	672	671	669	670	667	671	671	668	672	653	673	672	670	672	670	638	612	613	617	614	614	617	612	649	650	652	645	645	648	651	648	649	645	645	643	645	645	645	646	645			
JMUG	U002	678	672	677	677	678	679	678	677	676	674	674	679	601	590	593	592	595	596	596	596	593	597	590	596	596	597	593	593	596	596	598	596	596	604	593	593	600	595	596	594	600	596	598	596	597	598	596				
JMUG	U003	668	669	671	670	667	677	672	667	672	670	671	671	673	671	672	668	607	593	598	595	594	598	598	598	610	612	615	612	614	619	611	615	618	616	609	618	615	615	615	612	612	612	613	614	610	617	613				
JMUG	U004	952	952	919	902	903	857	854	854	857	801	782	783	785	782	783	786	787	876	892	930	933	931	933	978	979	978	977	978	933	902	901	923	949	980	980	979	979	981	979	979	980	978	977	979	979	982	979	906			
JMUG	U005	951	948	900	900	895	847	848	851	850	779	778	782	779	779	777	779	800	900	889	933	930	931	941	982	983	979	983	980	902	900	900	923	958	980	981	979	985	981	980	979	981	977	983	978	980	983	983	899			
PKLG	U004	281	279	281	280	281	279	278	281	278	280	281	283	282	280	280	286	281	280	280	281	281	282	284	281	283	282	282	282	281	283	282	281	282	281	280	279	281	277	279	279	279	282	279	280	281	282	283	282			
PKLG	U005	470	470	470	468	470	469	468	469	470	469	464	464	471	470	468	469	472	470	471	469	468	468	450	470	469	470	470	470	403	268	179	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
PKLG	U006	471	470	472	468	468	470	469	468	469	470	470	468	470	470	469	470	469	472	469	470	472	469	469	469	469	468	470	473	470	469	472	469	469	469	469	468	469	470	468	469	469	474	477	470	469	470	468				
TBIN	U001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12	55	201	194	282	323	284	322		
TBIN	U002	689	693	690	690	692	687	690	691	688	688	692	691	690	691	691	689	689	692	692	690	690	691	690	691	695	690	688	691	687	685	689	691	692	690	691	692	690	690	689	687	689	691	690	687	689	690	690				
TBIN	U003	689	689	686	689	687	686	691	686	684	691	687	687	692	685	689	688	686	686	686	690	686	691	688	689	688	684	690	684	687	687	695	687	687	686	684	685	691	687	686	688	685	691	687	688	688	689	689				
TBIN	U004	951	952	914	901	901	854	852	851	851	803	801	799	801	801	802	803	814	891	891	932	931	932	943	982	982	980	983	984	937	903	905	919	967	986	981	982	984	983	981	982	979	984	981	982	981	981	983	904			
Total ST-Coal		8162	8161	8055	8009	8006	7872	7863	7859	7860	7690	7664	7670	7605	7584	7588	7593	7564	7813	7834	7947	7948	7949	7955	8062	8061	8053	8064	8055	7889	7759	7614	7626	7644	7620	7621	7613	7627	7623	7621	7628	7620	7676	7820	7813	7898	7942	7917	7710			
Total ST-Oil		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total 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
CBPS	GT1B	88	87	88	87	88	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CBPS	ST1C	36	36	36	36	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CBPS	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	12	77	90	243	370	370	365	365	366	366	365	368	367	366	374	375	371	371	370	368	373	366	375	369	375		
GLGR	GT01	103	80	67	69	69	68	67	66	66	67	66	69	69	68	67	67	68	88	104	104	104	104	102	103	103	95	66	66	68	101	100	102	101	100	101	101	68	67	68	104	104	103	102	102	83	84	46				
GLGR	GT02	104	80	68	68	68	68	68	67	67	68	68	68	68	68	88	104	104	104	103	104	103	95	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67			
GLGR	ST1C	94	85	72	72	71	69	71	72	71	72	71	71	71	79	93	93	93	93	93	93	95	95	94	95	72	71	72	92	92	93	93	93	93	93	93	93	77	71	71	92	94	94	94	94	94	84	83	82			
KLPP	GT13	140	137	131	138	137	107	69	68	68	72	66	71	70	70	70	69	104	140	139	136	139	141	138	141	145	140	124	142	146	144	146	146	141	133	132	137	131	114	121	142	142	138	135	138	125	139	118	144			
KLPP	GT14	144	145	145	149	145	78	75	78	76	75	76	80	79	76	78	77	114	150	150	155	144	151	148	149	150	151	131	146	153	150	151	153	148	142	142	148	141	123	129	149	147	149	146	148	136	147	127	150			
KLPP	GT15	109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	115	151	140	143	145	143	144	144	126	139	146	145	144	146	145	139	138	142	138	120	125	144	143	143	104	104	103	104	84	87	110			
KLPP	ST17	194	138	130	132	132	113	89	89	89	89	84	93	89	88	77	93	117	133	187	203	199	199	203	200	199	199	191	199	199	200	200	199	194	195	193	195	191	187	199	195	199	194	199	194	199	199	190	198			
MPSS	GT01	109	89	87	91	88	91	89	88	89	89	87	90	90	89	90	89	87	88	87	89	87	88	88	87	88	74	85	107	107	89	105	105	105	99	105	105	68	70	69	69	93	104	105	104	103	100	85	87	110		
MPSS	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
MPSS	ST01	51	39	38	38	37	39	37	38	37	37	37	38	38	38	37	37	36	37	37	38	38	41	42	0	35	50	52	40	51	51	53	76	113	113	80	68	65	65	82	107	109	109	108	108	85	84	84				
NPRI	BLK1	511	511	511	510	514	511	510	512	510	509	510	509	512	510	510	509	538	530	533	532	530	533	532	529	525	526	526	524	522	525	524	527	528	529	532	533	535	534	533	532	533	533	532	533	533	534	534	532			
NPRI	BLK2	513	512	512	512	516	512	511	512	510	511	511	511	511	513	511	509	539	535	535	535	536	535	537	534	532	532	532	532	532	530	529	530	532	532	534	536	535	537	537	536	536	536	535	535	538	535	533	533	534	534	
PCGP	PGRG	401	401	396	402	510	384	401	263	265	265	263	267	266	265	266	267	262	400	401																																

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 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	28	27	29	27	28	29	28	30	29	29	30	31	31	31	31	28	29	28	27	27	27	28	27	28
PCUF	CUFK	26	25	25	27	30	31	31	31	33	34	32	31	33	33	34	34	32	31	31	30	27	30	32	34
Total Co-Gen		54	52	54	54	58	60	59	61	62	63	62	62	64	64	65	64	65	62	61	59	58	57	54	63
Total Gen		14804	14404	14059	13836	13664	13414	13192	13099	12913	12797	12690	12611	12603	12726	12677	12564	12829	13866	14143	14711	15035	15518	15786	15789
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
TIE-HVDC		30	31	31	31	31	30	30	30	31	31	31	31	31	31	31	31	98	30	31	30	31	0	0	0
TIE-PLTG		-29	-31	-30	-34	-18	-19	-44	18	14	7	-9	-12	-19	-3	-7	33	36	-16	-8	-19	-56	53	64	5
Interconnection		2	0	0	-4	13	11	-14	48	44	37	22	17	11	28	24	63	67	14	22	11	-26	84	163	35
System Total		14802	14404	14059	13840	13651	13403	13206	13051	12869	12760	12668	12594	12592	12698	12653	12501	12762	13552	14121	14700	15061	15434	15623	15754
SRev ST-Coal		233	234	339	378	376	369	376	383	382	377	383	380	424	435	127	122	341	92	71	78	77	76	250	103
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		753	741	877	1104	1122	1243	1326	1398	1580	1540	1626	1703	1642	1496	1548	1666	1389	1150	679	587	496	411	354	302
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		6	8	6	6	2	0	1	-1	-2	-3	-2	-2	-4	-4	-5	-4	-5	-2	-1	1	2	3	6	3
Syncon		1054	1054	1139	988	1224	1073	1073	1224	1224	1224	1073	1224	1224	1224	1224	1073	1037	1037	1037	414	126	0	126	227
Hydro		118	110	106	207	126	223	253	121	127	114	259	116	122	124	126	125	260	141	127	150	691	896	897	930
S Reserve Total		2169	2152	2472	2688	2855	2913	3034	3130	3316	3257	3344	3426	3413	3280	3025	3138	3063	2423	1918	1853	1680	1512	1507	1464