

Daily System Generation Summary on Thursday

Thursday, May 23, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,911 MW
Distillate	0 MW
Total TNB	1,911 MW
Total IPP	16,313 MW
Total Co-Gen	40 MW
Total System	21,343 MW

Generation Mix

Type	MWh	Percentage
Hydro	9,617	2.60 %
Gas	35,820	9.68 %
Total TNB	45,437	12.28 %
ST-Coal	211,893	57.26 %
LSS	1,805	0.49 %
Gas	108,854	29.42 %
Total IPP	322,552	87.17 %
Co-Gen	1,019	0.28 %
Total Co-Gen	1,019	0.28 %
Total Generation	369,008	99.73 %
PLTG	-312	-0.08 %
HVDC	-703	-0.19 %
Interconnection	-1,015	-0.27 %
Net Energy	370,023	100.00 %

Maximum Demand Record

Date: 4/18/2019	18,566 MW
Date: 4/18/2019	391,845 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:00:00 Hour
Total Set On Bus	18,907 MW
TNB Generation	2,315 MW
IPP Generation	15,066 MW
Spinning Reserve	1,481 MW
Maximum Demand	17,464 MW
Net Energy	370,023 MWH
Load Factor	88.28 %

Fuel Cost

Total Cost:	69,683,574.75 RM
Cost per Unit	18.88 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	598
Hydro	409
Syncon	486
Thermal	169
Total	1,662

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	50
SRDG	7
TJGS	202
Total TNB	259
CBPS	51
KLPP	90
NPRI	153
PGLA	106
PLPS	87
PTEK	14
SGB3	24
SGRI	74
SKSP	36
YPKA	62
Total IPP	696
Total Gas	955

Total Gas Required 955

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	14678	13955	13574	13230	12951	13079	13172	12871	13522	15288	16094	16691	16661	16410	17155	17403	17464	16961	16158	15857	16569	16944	16526	16099

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, June 24, 2019 9:59:40 AM

(Ir. Shanmugam Thoppalan)
Pengurus Besar Kanan
Jabatan Sistem Operasi

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	U001	689	683	682	682	683	681	684	682	678	683	685	681	680	693	692	694	689	686	692	694	689	693	689	693	689	693	692	691	693	
JMHE	U001	1000	1003	995	1001	998	1002	1000	999	999	998	1001	999	999	997	999	1000	999	999	1000	1001	997	997	1001	1003	998	1000	998	1001	999	995
JMUG	U001	675	667	667	668	669	666	667	667	667	666	671	666	668	673	668	672	672	669	677	672	671	672	670	672	672	671	671	672	671	671
JMUG	U002	668	671	666	668	663	670	666	668	667	668	668	666	669	677	669	676	669	679	672	672	672	676	673	670	673	671	669	669	677	673
JMJG	U003	672	659	657	660	654	664	648	661	654	590	609	673	671	668	667	668	668	667	669	671	666	667	669	671	661	666	667	667	666	671
JMUG	U004	982	929	840	788	785	781	782	785	783	785	783	783	785	785	783	785	783	868	923	981	980	984	982	980	980	981	979	979	980	979
JMJG	U005	983	910	777	781	780	782	782	782	783	780	781	782	782	782	787	780	782	867	989	985	971	977	977	977	976	977	978	977	977	978
PKLG	U003	281	283	281	284	283	283	283	231	146	147	151	147	149	149	151	151	206	285	282	284	284	282	283	280	281	280	281	280	275	283
PKLG	U004	283	283	281	281	282	281	281	229	152	153	152	153	152	154	152	152	218	279	280	279	280	281	280	280	279	279	279	281	280	282
PKLG	U005	470	471	470	471	469	470	471	427	311	248	254	264	267	269	269	268	294	364	409	397	402	412	408	280	280	280	280	280	280	280
PKLG	U006	476	476	472	468	461	461	460	466	464	467	472	466	463	460	455	466	465	465	469	467	467	467	467	468	475	472	477	478	474	480
TBIN	U001	692	679	680	680	679	680	679	678	679	681	679	676	681	680	691	691	688	688	689	688	690	689	690	690	690	689	692	690	689	689
TBIN	U002	696	684	683	684	682	683	684	683	683	683	683	681	685	682	682	692	692	693	692	691	691	691	692	694	691	692	692	690	690	
TBIN	U003	688	682	682	683	682	683	686	683	685	684	681	684	683	684	680	687	690	689	687	689	687	694	690	689	693	692	688	688	692	690
Total ST-Coal		9255	9080	8833	8799	8770	8787	8773	8641	8351	8239	8251	8262	8345	8363	8343	8375	8507	8869	9123	9183	9143	9155								

Daily MW Generation on Thursday

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																											
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	10	14	17	22	25	20	36	39	36	33	32	36	29	27	28	33	14	10	7	5	3	1	0	0	0	0	0	0	0	0	0					
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	7	11	15	16	28	36	32	32	0	0	0	0	0	5	14	9	11	9	7	2	0	0	0	0	0	0	0	0	0	0	0					
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	23	32	33	22	26	23	12	45	28	53	46	43	42	50	43	36	33	17	8	3	1	0	0	0	0	0	0	0	0	0	0				
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	9	13	22	28	33	33	28	31	39	29	35	31	27	14	12	13	11	7	4	2	0	0	0	0	0	0	0	0	0	0	0				
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	9	36	56	101	144	181	177	196	264	237	207	205	250	232	235	170	201	206	166	137	102	57	33	7	1	1	1	0	0	0	0	0	0	0	0				
PCUF	CUFG	22	24	27	31	31	32	32	31	31	31	31	32	32	31	31	30	30	28	30	29	28	29	27	29	28	32	31	31	33	34	34	34	34	35	35	35	34	34	34	33	33	32	32	33	33						
PCUF	CUFK	10	11	11	11	11	10	13	12	11	10	12	12	11	11	10	12	12	12	11	12	11	11	11	12	11	12	11	11	12	11	10	10	10	13	10	11	12	13	10	11	12	10	11	10	11						
Total Co-Gen		32	35	38	42	42	43	42	44	43	42	41	44	44	43	42	42	40	42	40	42	40	40	40	38	40	39	44	42	43	44	45	46	45	45	44	45	45	48	44	45	46	46	44	45	42	43	43	44			
Total Gen		14624	14265	13908	13679	13495	13295	13172	12972	12902	13022	13043	12951	13129	13153	12849	12944	13532	14528	15203	15696	16046	16390	16635	16797	16624	16336	16369	16786	17070	17389	17328	17379	17426	17383	16989	16463	16166	15914	15856	16258	16483	16816	16922	16819	16522	16389	16101	15793			
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				
TIE-HVDC		-30	-30	-29	-29	-28	-28	-30	-29	-29	-30	-30	-29	-29	-28	-28	-30	-30	-28	-28	-30	-30	-30	-29	-29	-30	-30	-28	-29	-29	-29	-29	-28	-28	-30	-30	-30	-30	-30	-30	-30	-29	-29	-30	-30	-29	-29	-30				
TIE-PLTG		-20	-22	-14	-31	-48	-26	-26	-22	-15	-38	-2	-20	-10	0	10	-3	43	-116	-53	-53	-15	-48	-24	-18	-3	-18	-7	-13	-54	-15	-42	-43	-5	-27	60	14	40	-28	31	-37	-53	-15	10	17	29	12	36	58			
Interconnection		-50	-51	-43	-60	-76	-54	-55	-52	-45	-67	-32	-50	-39	-29	-18	-31	14	-145	-81	-81	-45	-78	-53	-47	-33	-47	-37	-43	-82	-44	-71	-73	-34	-55	31	-16	11	-57	2	-67	-83	-44	-19	-13	-1	-17	6	28			
System Total		14678	14320	13955	13742	13574	13352	13230	13028	12951	13093	13079	13005	13172	13186	12871	12979	13522	14677	15288	15780	16094	16471	16691	16848	16661	16387	16410	16832	17155	17437	17403	17456	17464	17441	16961	16482	16158	15974	15857	16328	16569	16863	16944	16835	16526	16410	16099	15769			
SRev ST-Coal		128	303	358	348	369	352	366	446	469	427	424	424	344	331	355	405	421	351	249	194	217	162	140	145	154	159	165	141	143	148	221	167	163	191	152	178	145	154	165	157	144	163	149	155	156	145	147	143			
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	19	74	13	16	15	14	115	41	37	39	15	39	37	18	66	76	25	0	0				
SRev CCGT-Gas		953	940	962	1160	1318	1535	1641	1713	1491	1491	1481	1586	1491	1486	2277	2381	1967	1433	1386	1125	954	522	537	572	779	1036	1000	654	439	401	469	408	346	340	536	592	634	808	826	579	482	422	343	356	566	464	669	763			
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		
SRev LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		8	5	2	-2	-2	-3	-2	-4	-3	-2	-1	-4	-4	-3	-2	-2	0	-2	0	0	0	0	0	0	0	0	0	0	1	-4	-2	-3	-4	-5	-6	-5	-5	-4	-5	-5	-8	-4	-5	-6	-6	-4	-5	-2	-3	-3	-4
Syncon		592	779	779	779	779	779	779	779	779	678	678	678	678	678	527	829	678	678	491	489	489	590	590	590	590	678	678	678	590	439	439	439	439	525	647	647	798	928	928	928	439	338	338	338	439	777	777	777			
Hydro		413	326	267	269	266	267	269	266	267	235	235	236	236	234	367	107	241	163	227	254	261	277	286	279	287	281	281	278	378	487	397	494	526	467	469	415	290	157	156	228	579	513	516	553	525	361	358	361			
S.Reserve Total		2094	2353	2368	2554	2730	2930	3053	3200	3003	2829	2817	2920	2745	2726	3524	3720	3307	2623	2353	2060	1921	1551	1553	1588	1810	2155	2120	1749	1547	1490	1595	1515	1485	1533	1814	1942	1903	2076	2110	1902	1677	1467	1360	1463	1760	1769	1948	2040			