

Daily System Generation Summary on Friday

Friday, June 18, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,340 MW
Distillate	0 MW
Total TNB	2,340 MW
Total IPP	16,729 MW
Total Co-Gen	0 MW
Total System	23,214 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,618	4.95 %
Gas	70,409	22.31 %
Total TNB	86,027	27.26 %
ST-Coal	171,915	54.48 %
LSS	3,495	1.11 %
Gas	54,164	17.17 %
Total IPP	229,574	72.75 %
Co-Gen	160	0.05 %
Total Co-Gen	160	0.05 %
Total Generation	315,761	100.07 %
PLTG	-501	-0.16 %
HVDC	718	0.23 %
Interconnection	217	0.07 %
Net Energy	315,544	100.00 %

Maximum Demand Record

Date: 3/10/2020	18,808 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	20:00:00 Hour
Total Set On Bus	15,829 MW
TNB Generation	4,799 MW
IPP Generation	10,032 MW
Spinning Reserve	992 MW
Maximum Demand	14,761 MW
Net Energy	315,544 MWH
Load Factor	89.07 %

Fuel Cost

Total Cost:	44,241,209.08 RM
Cost per Unit	14.02 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	149
Hydro	295
Syncon	547
Thermal	465
Total	1,456

Time	Weather	Temperature
Afternoon	Hot	31
Morning	Sunny	25

Gas Usage

Station	(mmcsfd)
GLGR	30
SRDG	2
TJGS	218
Total TNB	250
CBPS	55
NPRI	161
SKSP	2
YPKA	47
Total IPP	264
Total Gas	514
Total Gas Required	514

Alternate Fuel Usage

Station	(mmcsfd)
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	13365	12824	12329	11903	11569	11395	11418	11504	11605	12624	13058	13359	13435	13397	13713	14033	14203	14108	13438	13490	14761	14677	14484	14436

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, July 5, 2021 5:33:00 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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	U001	653	651	574	465	452	349	350	351	352	351	353	350	353	351	351	350	351	350	351	350	351	350	351	350
JMHE	U001	848	852	836	800	800	781	784	778	778	780	781	781	781	779	778	781	782	778	782	781	779	779	780	781
JMHE	U002	850	849	847	801	805	779	780	781	779	780	782	781	781	779	782	781	783	778	781	780	779	779	780	781
JMJG	U001	672	662	669	667	667	672	667	668	671	596	542	528	503	450	447	447	450	508	605	593	594	631	674	671
JMJG	U002	672	674	676	671	671	674	669	672	678	597	541	523	515	510	508	466	467	528	580	596	596	634	673	666
JMJG	U003	266	266	266	267	264	262	262	262	261	262	255	264	262	263	262	240	271	274	302	351	354	353	354	354
JMJG	U005	780	785	782	782	780	777	781	781	777	777	780	782	781	778	780	782	780	780	782	781	779	780	779	782
PKLG	U003	278	213	158	159	160	160	159	160	160	161	161	159	158	157	158	159	157	177	276	282	280	280	280	279
PKLG	U006	450	383	315	266	270	269	269	266	269	270	269	271	267	267	272	270	272	295	381	436	446	450	449	445
TBIN	U001	689	687	689	661	650	597	550	455	399	403	401	402	401	401	402	401	402	401	478	601	594	501	501	602
TBIN	U002	693	691	692	667	651	602	547	475	401	405	403	405	404	404	403	404	402	530	604	591	502	507	507	502
TBIN	U004	868	853	853	853	852	853	853	855	854	853	853	851	853	854	852	852	854	852	852	852	854	852	853	882
Total ST-Coal		7719	7566	7357	7059	7022	6775	6671	6502	6380	6236	6121	6099	6058	5992	5996	5933	5967	6328	6899	6987	6816	6896	7087	7062
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
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
CBPS	BLK2	362	362	362	362	362	362	364	364	362	362	362	362	362	354	354	361	360	355	355	358	358	353	360	359
GLGR	GT01	95	97	95	95	95	97	95	96	95	96	98	96	96	95	95	95	94	95	96	95	95	95	96	95
GLGR	ST1C	40	40	41	40	40	40	40	41	40	40	40	40	40	40	40	40	41	40	41	41	41	41	41	41
NPRI	BLK1	514	515	512	514	510	517	514	515	508	515	515	516	515	514	506	508	512	508	504	504	515	515	503	511
NPRI	BLK2	517	518	517	518	512	523	518	518	513	518	520	518	518	519	511	511	515	511	507	508	518	518	507	514
PCGP	PGRG	602	603	600	603	596	607	602	602	595	603	601	602	603	601	590	592	596	595	586	587	602	605	585	595
SKSP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	
SPGP	BLK1	717	719	717	719	717	718	718	718	719	718	717	717	719	716	717	717	718	716	716	717	717	719	717	718
SPGP	BLK2	719	720	717	720	719	718	719	718	720	719	718	719	719	717	719	718	720	718	717	718	718	719	718	718
TJGS	GT1A	226	225	229	227	225	226	227	224	229	226	227	226	227	226	227	228	226	223	224	227	228	223	224	225
TJGS	GT1B	217	217	219	216	219	214	216	217	214	219	217	216	216	219	213	214	219	217	212	217	215	214	215	217
TJGS	ST1C	242	242	242	242	242	242	242	242	242	242	242	242	242	242	242	242	242	239	239	242	242	242	244	244
TJGS	GT2A	216	217	217	217	217	217	214	216	216	216	216	216	216	216	216	216	216	215	215	215	215	215	215	216
TJGS	GT2B	213	213	213	214	214	214	211	211	211	211	214	214	214	213	144	122	125	213	213	213	213	212	212	213
TJGS	ST2C	255	255	255	255	255	255	255	255	255	255	255	255	255	255	209	202	202	254	254	254	254	254	254	254
YPKA	GT11	120	120	120	119	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	126
YPKA	GT12	134	134	134	133	68	69	67	68	68	68	68	67	68	68	67	68	68	125	128	129	131	130	128	129
YPKA	ST10	123	123	123	122	68	32	33	33	33	32	33	33	33	33	32	32	53	55	55	56	57	56	56	65
Total CCGT-Gas		5312	5320	5313	5316	5125	5051	5035	5038	5020	5040	5042	5039	5043	5059	4874	4886	4965	5089	5061	5073	5120	5125	5063	5102
SRDG	GT04	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 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
BSIA	HY01	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BSIA	HY02	13	13	13	13	13	13	13	13	13	13	13	13	13	13	24	24	24	24	24	23	24	23	23	23
BSIA	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
CEND	HY01	0	0	0	0	0	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY02	10	10	10	10	10	9	9	10	10	10	9	9	9	10	9	9	9	9	9	9	9	9	9	9
CEND	HY03	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
HTRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HTRG	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
KNRG	HY01	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY02	25	25	25	25	26	25	25	25	25	26	25	25	25	25	25	39	39	39	39	39	39	39	39	39
KNRG	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

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																									
TIE-HVDC		30	30	30	30	30	29	29	29	29	30	30	30	30	30	30	30	29	29	30	30	30	30	31	31	30	30	30	30	31	31	31	31	29	29															
TIE-PLTG		10	18	26	-2	-4	-15	11	3	37	-16	-9	-34	-47	-92	-51	-23	-37	51	0	-5	-53	-57	-23	-61	-32	1	-27	-63	-61	-71	-63	-50	-82	-67	-6	36	40	24	17	-14	48	2	-50	-56	-50	-43	-58	-6	
Interconnection		40	48	56	28	26	15	40	32	67	13	21	-3	-16	-62	-22	7	-7	82	29	25	-23	-28	7	-31	-2	32	4	-33	-31	-41	-34	-20	-53	-38	24	66	70	55	47	16	79	32	-20	-25	-19	-13	-29	23	
System Total		13365	13118	12824	12566	12329	12087	11903	11749	11569	11486	11395	11389	11418	11555	11504	11456	11605	12211	12624	12863	13058	13240	13359	13461	13435	13409	13397	13581	13713	13872	14033	14130	14203	14253	14108	13726	13438	13300	13490	14379	14761	14729	14677	14558	14484	14525	14436	14274	
SRev ST-Coal		404	484	495	557	589	627	633	628	625	731	734	724	729	730	726	748	719	717	714	669	658	634	548	565	543	540	596	599	552	505	451	437	448	455	458	500	581	569	628	575	241	230	238	243	252	232	249	248	
SRev CCGT-Gas		131	123	130	127	318	197	213	210	228	208	206	209	205	219	454	480	449	159	187	175	128	123	185	146	155	196	149	131	184	148	125	134	123	117	134	177	119	161	108	99	111	108	115	113	112	103	102	115	
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 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 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
SRev Co-Gen		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Syncon		825	825	926	926	926	926	926	926	926	926	926	800	800	699	699	699	638	825	825	638	638	638	638	638	451	638	638	739	739	739	739	739	552	552	552	739	739	638	364	151	151	151	151	151	151	151	151	151	151
Hydro		235	167	136	149	136	80	119	134	139	132	103	110	181	238	169	168	167	84	193	202	140	47	108	103	199	386	303	237	230	234	218	234	187	251	333	361	241	248	214	251	403	588	641	713	582	562	654	602	
S.Reserve Total		1595	1599	1687	1759	1969	1830	1891	1898	1918	1997	1969	1969	1915	1987	2048	2095	2034	1598	1919	1871	1564	1442	1479	1452	1535	1573	1686	1605	1705	1626	1533	1544	1497	1375	1477	1590	1680	1717	1588	1289	997	1077	1182	1304	1097	1048	1156	1116	