

Daily System Generation Summary on Friday

Friday, August 14, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,497 MW
Distillate	0 MW
Total TNB	2,497 MW
Total IPP	16,789 MW
Total Co-Gen	0 MW
Total System	22,109 MW

Generation Mix

Type	MWh	Percentage
Hydro	23,252	6.48 %
Gas	31,184	8.69 %
Total TNB	54,436	15.16 %
ST-Coal	233,429	65.02 %
LSS	1,605	0.45 %
Gas	69,235	19.28 %
Total IPP	304,269	84.75 %
Co-Gen	164	0.05 %
Total Co-Gen	164	0.05 %
Total Generation	358,869	99.96 %
PLTG	-873	-0.24 %
HVDC	723	0.20 %
Interconnection	-150	-0.04 %
Net Energy	359,019	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:	15:30:00 Hour
Total Set On Bus	17,891 MW
TNB Generation	3,038 MW
IPP Generation	13,440 MW
Spinning Reserve	1,405 MW
Maximum Demand	16,545 MW
Net Energy	359,019 MWH
Load Factor	90.41 %

Fuel Cost

Total Cost:	51,306,964.61 RM
Cost per Unit	14.30 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	496
Hydro	246
Syncon	687
Thermal	222
Total	1,651

Time Weather Temperature

Afternoon	Hot	33
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	27
TJGS	194
Total TNB	221
CBPS	48
KLPP	28
NPRI	139
PGLA	101
PLPS	64
YPKA	19
Total IPP	400
Total Gas	621

Total Gas Required 621

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	15256	14521	14007	13576	13124	12947	13041	12968	13375	14918	15499	15927	15911	15575	15906	16319	16452	16148	15260	15241	16194	16054	15523	15260

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, September 4, 2020 10:31:02 AM

(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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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	10	9	9	10	10	9	9	10	9	10	9	9	9	9	10	9	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9	9	10	9	9

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 Co-Gen		8	5	7	6	5	8	8	6	5	11	6	5	9	7	6	5	7	6	8	7	9	6	7	6	7	5																						
Total Gen		15294	14749	14556	14193	14032	13696	13582	13335	13137	12984	12947	12881	13053	13105	13010	13016	13355	14350	14877	15192	15436	15729	15860	15982	15892	15762	15519	15720	15841	16227	16279	16486	16445	16456	16143	15670	15285	15040	15200	15975	16176	16138	16015	15785	15502	15405	15218	14972
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		
TIE-HVDC		31	30	30	30	30	29	29	30	30	30	30	30	31	31	30	30	31	31	31	31	31	30	30	30	30	30	30	30	30	30	30	31	31	30	30	30	30	29	29	30	30	30	30	30	30	30	30	
TIE-PLTG		14	31	12	-14	2	-12	-16	11	-10	-32	-23	16	-11	1	18	12	-43	70	-65	-70	-86	-120	-91	-68	-41	-27	-80	-76	-88	-87	-63	-82	-30	-60	-28	-40	3	-48	-64	-32	-41	-60	-62	-43	-43	-68	-65	-46
Interconnection		45	61	42	16	32	17	13	41	20	-2	7	46	19	31	49	42	-13	101	-34	-40	-56	-90	-60	-38	-12	3	-49	-46	-58	-57	-33	-52	0	-31	2	-10	32	-18	-34	-2	-11	-30	-32	-14	-14	-38	-35	-16
System Total		15256	14695	14521	14184	14007	13686	13576	13301	13124	12993	12947	12842	13041	13081	12968	12981	13375	14256	14918	15239	15499	15826	15927	16027	15911	15766	15575	15773	15906	16291	16319	16545	16452	16494	16148	15687	15260	15065	15241	15984	16194	16175	16054	15806	15523	15450	15260	14995
SRev ST-Coal		171	335	579	589	517	502	508	504	510	502	517	513	512	507	500	515	534	517	314	253	232	170	193	188	197	198	181	202	205	193	202	194	205	202	191	192	208	189	194	191	189	185	189	200	248	255	270	
SRev CCGT-Gas		737	967	843	1070	1116	1487	1520	1743	1785	1955	1990	2038	1989	1913	1999	2007	1665	876	610	597	627	518	462	512	642	695	949	771	619	438	454	400	480	431	531	677	961	1060	955	307	268	287	411	472	671	576	738	658
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	
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	
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	
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	
Syncon		1002	1128	1128	1128	1011	1128	1128	1128	1229	1229	1078	1078	977	1128	1128	1128	1128	953	953	953	953	802	953	827	676	827	827	827	827	676	489	489	489	489	676	827	827	928	953	676	489	489	489	676	676	676	676	827
Hydro		103	100	98	99	230	102	126	62	29	31	163	169	165	34	47	101	96	201	233	237	126	183	46	44	177	110	111	114	119	258	353	315	268	281	274	194	204	211	130	338	368	391	392	295	318	287	326	108
S.Reserve Total		2013	2530	2648	2886	2874	3219	3282	3437	3553	3717	3748	3798	3644	3587	3681	3736	3404	2564	2313	2101	1959	1735	1631	1576	1683	1829	2085	1893	1767	1577	1489	1406	1431	1406	1683	1889	2184	2407	2227	1515	1316	1356	1477	1632	1865	1787	1995	1863