

Daily System Generation Summary on Friday

Friday, November 12, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,492 MW
Distillate	0 MW
Total TNB	2,492 MW
Total IPP	14,465 MW
Total Co-Gen	0 MW
Total System	19,217 MW

Generation Mix

Type	MWh	Percentage
Hydro	28,013	7.85 %
Gas	39,309	11.01 %
Total TNB	67,322	18.86 %
ST-Coal	172,701	48.37 %
ST-Gas	803	0.22 %
ST-Oil	5,841	1.64 %
LSS	2,418	0.68 %
Gas	105,507	29.55 %
Total IPP	287,270	80.46 %
Co-Gen	1,246	0.35 %
Total Co-Gen	1,246	0.35 %
Total Generation	355,838	99.66 %
PLTG	-510	-0.14 %
HVDC	-695	-0.19 %
Interconnection	-1,205	-0.34 %
Net Energy	357,043	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	17,724 MW
TNB Generation	3,246 MW
IPP Generation	13,134 MW
Spinning Reserve	1,291 MW
Maximum Demand	16,485 MW
Net Energy	357,043 MWH
Load Factor	90.24 %

Fuel Cost

Total Cost:	75,177,357.39 RM
Cost per Unit	21.11 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	556
Hydro	244
Syncon	453
Thermal	139
Total	1,392

Time Weather Temperature

Gas Usage

Station	(mmscfd)
GLGR	46
PGPS	46
TJGS	94
Total TNB	186
CBPS	48
KLPP	92
NPRI	141
PGLA	104
PLPS	89
SGB3	68
SGRI	87
SKSP	49
PKLG	8
Total IPP	688
Total Gas	874

Total Gas Required 932

Alternate Fuel Usage

Station	(mmscfd)
PKLG	58
Total	58

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	14673	13958	13455	13124	12822	12640	12840	12993	13444	14913	15749	16177	16001	15651	15916	16359	16386	16061	15420	15875	16158	15917	15324	14950

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, December 6, 2021 6:49:27 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
SGRI	GT22	142	142	142	142	111	111	111	111	111	111	111	111	111	111	111	114	114	114	114	0	0	0	0	0
SGRI	ST24	135	135	135	135	135	135	135	135	135	135	135	135	125	125	134	134	134	134	128	128	64	64	68	68
SKSP	BLK1	219	218	220	229	221	219	218	228	221	228	217	233	242	263	217	218	239	231	264	300	315	292	337	336
SPGP	BLK1	720	721	720	721	720	505	499	360	359	362	361	361	362	360	453	361	502	717	718	719	719	718	720	718
TJGS	GT1A	223	168	122	124	123	125	123	124	123	124	126	126	124	126	126	125	126	122	153	224	226	223	222	224
TJGS	GT1B	216	162	118	118	117	120	115	120	117	117	116	115	119	116	115	118	119	117	148	219	217	214	219	214
TJGS	ST1C	244	204	164	164	164	164	164	164	164	164	164	164	164	161	161	164	241	244	244	244	244	244	244	235
Total CCGT-Gas		5897	5507	5289	5099	5026	4835	4810	4712	4692	4720	4653	4738	4752	4830	4779	4698	4965	5601	6039	6362	6708	6977	7088	7091
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	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
BSIA	HY02	22	22	21	22	22	21	21	22	22	21	22	21	21	21	21	21	21	21	21	22	22	22	22	21
BSIA	HY03	22	21	21	22	22	21	21	21	21	21	21	21	21	21	21	21	21	21	21	22	22	22	22	21
CEND	HY01	9	9	9	9	9	9	9	9	8	9	9	8	9	9	8	9	9	9	8	9	8	8	8	9
CEND	HY02	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9	8	8	8	8	8
CEND	HY03	8	8	8	8	8	8	8	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
CEND	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
HTRG	HY01	119	119	119	120	118	119	119	121	63	-1	-1	-1	-1	118	119	119	119	119	119	119	119	120	119	118
HTRG	HY02	118	118	118	118	118	117	118	62	63	63	-1	-1	-1	122	122	65	118	118	117	118	117	118	117	117
KNRG	HY01	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
KNRG	HY02	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
KNRG	HY03	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
KNYR	HY01	95	96	96	95	96	96	96	96	96	96	96	95	96	96	95	96	96	96	96	95	96	96	95	96
KNYR	HY02	98	98	97	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
KNYR	HY03	98	97	97	97	97	98	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
KNYR	HY04	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
LPIA	HY01	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
LPIA	HY02	22	22	21	22	22	22	22	22	22	22	22	22	21	22	22	21	21	21	21	21	21	21	22	22
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
PGAU	HY01	-1	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY03	21	21	21	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGAU	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
SIHY	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
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	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
SYPS	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
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	80	81	81	33	33	34	34	34	34	33	34	81	81	81	32	80	80	80	80	80	80	80	80	81
TMGR	HY02	85	86	86	86	35	35	35	36	36	36	35	36	35	35	85	85	85	85	85	85	85	85	85	85
TMGR	HY03	80	0	0	0	0	0	0	0	0	0	32	33	32	30	32	81	80	80	80	80	81	81	80	81
TMGR	HY04	82	42	40	80	65	46	58	51	44	48	41	51	82	82	42	42	70	81	81	61	66	41	63	70
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	5	5	5	5	5	6	6	6	6
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		1235	1117	1112	1108	1041	1021	1012	954	888	829	787	800	876	1001	956	851	1198	1211	1209	1191	1195	1170	1214	1241
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

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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	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	0	0	0	0	0	0	0	0	0	0	0
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TBLS	LSS1	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 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
PCUF	CUFG	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
PCUF	CUFK	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Total Co-Gen		53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
Total Gen		14640	14145	13872	13570	13421	13215	13026	12870	12740	12688	12587	12692	12770	12993	12937	12973	13425	14270	14869	15278	15657	15937	16098	16127
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		-29	-29	-29	-30	-30	-30	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29
TIE-PLTG		-1	-26	-54	-41	0	-47	-66	-44	-49	-20	-22	-63	-38	-54	-24	-12	12	-27	-11	-90	-60	-42	-47	-14
Interconnection		-30	-55	-82	-71	-30	-76	-95	-73	-79	-49	-50	-93	-67	-83	-53	-40	-16	-57	-41	-118	-89	-71	-76	-43
System Total		14673	14204	13958	13645	13455	13294	13124	12946	12822	12740	12640	12788	12840	13079	12993	13016	13444	14330	14913	15399	15749	16011	16177	16173
SRev ST-Coal		73	60	110	218	223	220	273	258	252	262	253	243	259	240	244	269	263	235	120	66	60	60	63	64
SRev CCGT-Gas		1180	1570	1788	1978	2051	2242	2267	2365	2385	2357	2424	2339	2325	2247	2298	2379	2112	1476	1038	868	590	537	426	423
SRev LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	-1	0	1
SRev ST-Oil		-6	-6	-6	-6	-6	-6	-6	14	27	27	27	27	27	27	29	-6	-7	-5	-5	-5	-6	30	27	27
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 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 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
Syncon		525	374	374	374	374	525	525	525	525	651	777	777	777	651	651	651	525	525	525	525	525	525	525	374
Hydro		212	244	249	253	320	340	199	257	323	256	258	245	169	170	215	320	99	86	88	106	102	127	233	357
S.Reserve Total		1984	2242	2515	2817	2962	3321	3258	3419	3512	3553	3739	3631	3557	3335	3437	3613	2992	2317	1766	1560	1271	1243	1277	1244