

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,347 MW
Distillate	0 MW
Total TNB	2,347 MW
Total IPP	15,491 MW
Total Co-Gen	0 MW
Total System	20,681 MW

Generation Mix

Type	MWh	Percentage
Hydro	19,552	5.25 %
Gas	30,533	8.20 %
Total TNB	50,085	13.45 %
ST-Coal	230,404	61.86 %
LSS	2,641	0.71 %
Gas	87,375	23.46 %
Total IPP	320,420	86.03 %
Co-Gen	1,186	0.32 %
Total Co-Gen	1,186	0.32 %
Total Generation	371,691	99.79 %
PLTG	-84	-0.02 %
HVDC	-697	-0.19 %
Interconnection	-781	-0.21 %
Net Energy	372,472	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:	16:00:00 Hour
Total Set On Bus	18,784 MW
TNB Generation	2,928 MW
IPP Generation	14,632 MW
Spinning Reserve	1,178 MW
Maximum Demand	17,646 MW
Net Energy	372,472 MWH
Load Factor	87.95 %

Fuel Cost

Total Cost:	78,968,429.75 RM
Cost per Unit	21.23 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	892
Hydro	358
Syncon	458
Thermal	173
Total	1,881

Time	Weather	Temperature
Afternoon	Hot	31
Morning	Sunny	24

Gas Usage

Station	(mmscfd)
GLGR	46
TJGS	82
Total TNB	128
CBPS	44
KLPP	43
NPRI	128
PGLA	100
SGB3	34
SGRI	33
Total IPP	382
Total Gas	510

Total Gas Required	510
---------------------------	------------

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	14910	14273	13734	13364	13169	12881	13181	13240	13824	15518	16367	16966	16901	16669	17199	17561	17646	17104	16155	16538	16828	16570	16040	15609

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, December 6, 2021 7:00:19 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Tuesday

[illegible]

Daily MW Generation on Tuesday

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	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY02	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	65	123	59	-1	-1	-1	-1	-1
HTRG	HY02	117	117	117	121	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNRG	HY01	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
KNRG	HY02	36	35	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	63	62	70	62	61	59	61	62	61	58	59	83	97	78	64	64	55	79	83	96	61	93	96	65
KNYR	HY02	98	97	99	58	57	-1	-1	-1	-1	-1	-1	-1	-1	96	95	95	95	95	95	95	95	95	98	98
KNYR	HY03	97	97	97	94	-1	-1	-1	-1	-1	-1	-1	-1	97	97	97	97	97	97	97	97	97	97	97	97
KNYR	HY04	58	58	66	60	57	55	55	65	58	56	56	86	97	95	62	57	52	79	82	98	57	76	63	62
LPJA	HY01	13	13	13	13	13	15	15	15	15	15	15	15	18	14	22	24	24	24	24	24	24	24	24	23
LPJA	HY02	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	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
PGAU	HY03	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGAU	HY04	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY01	12	12	12	12	12	12	12	12	12	12	12	12	17	17	17	17	17	17	17	17	17	17	17	17
SYPS	HY02	12	12	12	12	12	12	12	12	12	12	12	12	17	17	17	17	17	17	17	17	17	17	17	17
SYPS	HY04	12	12	12	12	12	12	12	12	12	12	12	12	17	17	17	17	17	17	17	17	17	17	17	17
TMGR	HY01	81	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY02	86	86	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY03	40	37	44	39	40	41	37	47	42	38	42	74	83	65	51	41	34	63	69	81	38	76	80	41
TMGR	HY04	-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	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	93	-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	7	4	5	4	5	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		1167	1000	868	688	468	429	406	394	345	336	340	405	440	401	412	379	313	502	614	873	1099	1228	1156	1088
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
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

Daily MW Generation on Tuesday

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 LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	23	74	110	176	240	325	373	405	422	402	417	351	374	318	266	274	208	182	147	80	73	37	11	1	1	0	0	0	0	0	0	0	0		
PCUF	CUFG	25	23	24	23	24	25	25	23	23	23	24	24	24	24	23	22	23	24	27	28	27	25	24	25	24	24	24	22	24	21	22	23	24	25	24	23	24	24	22	21	24	23	21	22	23			
PCUF	CUFK	27	26	28	28	26	27	25	26	26	25	26	27	28	24	26	27	28	26	24	27	26	27	24	25	25	25	27	24	26	27	25	28	26	26	23	24	26	25	24	27	24	25	25	24	26	27		
Total Co-Gen		52	49	52	51	50	52	50	49	49	48	49	51	52	48	50	51	51	48	47	51	53	55	51	48	49	51	49	49	51	48	48	51	46	50	49	50	48	48	49	49	48	49	45	49	48	45	48	50
Total Gen		14900	14470	14227	13978	13735	13550	13392	13243	13131	13002	12862	12936	13083	13296	13175	13318	13796	14786	15491	15943	16360	16721	16900	17080	16910	16684	16616	16926	17086	17487	17494	17541	17606	17516	17048	16497	16093	15825	16500	16848	16783	16712	16531	16426	16005	15775	15558	15322
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		-28	-28	-29	-29	-29	-28	-28	-30	-30	-31	-28	-28	-30	-29	-29	-30	-29	-29	-31	-28	-28	-28	-31	-28	-31	-28	-31	-28	-31	-27	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	
TIE-PLTG		29	104	-6	63	42	13	67	21	4	63	20	40	-57	38	-27	-55	12	-24	14	-42	33	24	-24	3	48	-1	-12	-16	-71	-70	-25	-52	0	-55	-16	-29	-21	15	2	-27	-5	-65	1	-29	4	-57	-11	-30
Interconnection		1	76	-35	34	12	-17	39	-7	-27	33	-8	10	-87	10	-54	-85	-17	-52	-16	-72	4	-5	-55	-25	20	-29	-42	-45	-102	-98	-56	-79	-29	-84	-45	-58	-51	-15	-27	-56	-34	-94	-28	-58	-24	-86	-40	-60
System Total		14910	14405	14273	13955	13734	13578	13364	13261	13169	12980	12881	12937	13181	13297	13240	13414	13824	14849	15518	16026	16367	16737	16966	17116	16901	16724	16669	16982	17199	17596	17561	17631	17646	17611	17104	16566	16155	15851	16538	16915	16828	16817	16570	16495	16040	15872	15609	15393
SRev ST-Coal		76	193	233	233	254	425	517	574	554	557	644	730	780	699	689	801	667	375	186	185	198	177	175	184	188	184	180	174	189	170	142	148	147	147	160	182	150	153	138	149	149	152	160	220	227	182	194	186
SRev CCGT-Gas		1431	1710	1947	2022	1996	2006	2072	1989	2004	2088	1980	1979	1777	1613	1920	1921	2054	1977	1967	1895	1765	1602	1456	1253	1309	1383	1374	1261	1101	544	467	420	332	326	365	752	801	766	312	251	247	269	325	574	747	1083	1266	1311
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
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
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
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
Syncon		425	612	699	825	1052	1002	1153	1153	1153	1153	1153	1153	1003	1153	1153	1052	951	777	277	277	403	403	252	490	490	490	490	403	403	277	277	277	590	814	965	965	590	403	403	403	590	590	677	526	677	951		
Hydro		602	555	214	268	261	350	222	234	208	217	213	100	65	104	318	201	267	179	168	83	467	362	308	376	619	550	542	388	327	297	298	314	427	494	535	456	265	219	395	287	357	402	329	322	322	438	314	241
S.Reserve Total		2541	3077	3093	3348	3563	3783	3964	3950	3919	4015	3990	3962	3775	3569	3930	4076	4141	3583	3272	2940	2707	2418	2342	2216	2368	2607	2586	2313	2107	1414	1310	1159	1183	1244	1650	2204	2181	2103	1435	1090	1156	1226	1404	1706	1973	2229	2451	2689