

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,331 MW
Distillate	0 MW
Total TNB	2,331 MW
Total IPP	17,249 MW
Total Co-Gen	0 MW
Total System	23,559 MW

Generation Mix

Type	MWh	Percentage
Hydro	19,595	5.14 %
Gas	63,082	16.56 %
Total TNB	82,677	21.70 %
ST-Coal	226,629	59.48 %
LSS	3,318	0.87 %
Gas	67,454	17.70 %
Total IPP	297,401	78.05 %
Co-Gen	211	0.06 %
Total Co-Gen	211	0.06 %
Total Generation	380,289	99.81 %
PLTG	-147	-0.04 %
HVDC	-594	-0.16 %
Interconnection	-741	-0.19 %
Net Energy	381,030	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:	16:30:00 Hour
Total Set On Bus	19,114 MW
TNB Generation	4,567 MW
IPP Generation	13,368 MW
Spinning Reserve	1,173 MW
Maximum Demand	17,932 MW
Net Energy	381,030 MWH
Load Factor	88.54 %

Fuel Cost

Total Cost:	48,942,433.47 RM
Cost per Unit	12.86 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	339
Hydro	415
Syncon	445
Thermal	144
Total	1,343

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	54
TJGS	187
Total TNB	241
CBPS	49
NPRI	151
PGLA	80
PLPS	54
Total IPP	335
Total Gas	576
Total Gas Required	576

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	15797	14991	14432	13942	13611	13275	13316	13556	13839	15579	16365	16896	16892	16685	17396	17835	17932	17669	16419	16144	17450	17429	16948	16676

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, April 6, 2021 11:58:17 AM

 (Ir. Shanmugam Thoppalan)
 Head
 Grid System Operator

Daily MW Generation on Wednesday

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	702	703	695	694	691	692	693	692	692	692	692	693	691	692	684	694	690	691	690	691	693	697	691	693	690
JMAH	U002	702	699	703	695	694	695	696	696	696	696	696	695	696	695	699	697	697	697	693	697	694	695	695	698	694
JMHE	U002	984	977	959	853	854	851	852	850	850	851	849	850	853	852	848	851	849	902	981	980	980	983	978	976	979
JMJG	U001	671	668	666	663	673	672	673	670	672	671	670	676	672	671	667	672	666	676	669	677	673	664	673	672	672
JMJG	U002	671	672	672	668	675	680	674	672	674	671	672	671	671	676	672	673	672	673	668	671	673	673	672	676	674
JMJG	U003	668	670	666	672	673	670	672	671	672	669	673	672	672	671	671	669	671	671	672	671	669	668	672	669	666
JMJG	U004	902	900	903	855	855	854	852	855	854	854	851	853	853	854	854	855	891	900	930	930	929	930	929	932	933
JMJG	U005	891	889	886	846	850	848	849	849	849	852	848	851	854	856	848	852	850	851	892	890	892	890	895	891	887
PKLG	U003	271	278	278	279	279	279	278	276	279	276	278	280	279	278	278	277	276	278	278	277	278	277	276	278	277
PKLG	U004	276	279	279	275	276	271	275	273	276	273	272	277	279	278	277	270	279	278	278	277	280	277	279	271	274
PKLG	U006	446	446	450	449	446	445	449	446	448	446	449	447	448	450	451	448	450	445	447	445	448	445	446	449	447
TBIN	U001	697	695	698	690	691	690	690	688	690	689	691	689	690	690	689	688	689	688	688	688	688	689	688	688	690
TBIN	U002	703	701	698	690	692	695	690	688	691	695	691	691	691	686	690	694	694	691	689	688	692	687	693	689	691
TBIN	U004	982	983	975	887	853	852	852	853	852	852	852	854	852	853	854	853	886	977	984	982	983	982	983	984	982
Total ST-Coal		9566	9560	9528	9216	9202	9194	9195	9179	9195	9188	9187	9192	9199	9201	9197	9180	9201	9181	9362	9524	9577	9559	9570	9558	9561
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	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	0
CBPS	BLK2	274	226	219	225	226	220	223	216	223	222	226	220	223	227	230	223	280	362	362	358	362	358	358	358	361
EMPP	BLK2	196	193	192	195	193	195	195	195	196	197	196	196	195	197	195	193	193	197	197	0	0	0	0	0	0
GLGR	GT01	68	68	68	68	70	68	68	67	69	67	68	68	68	69	70	67	68	102	110	111	109	110	110	111	111
GLGR	GT02	67	68	68	67	68	68	68	67	67	67	67	68	68	67	68	102	107	107	107	106	107	107	107	108	107
GLGR	ST1C	76	72	72	72	72	72	72	72	73	73	72	72	72	72	72	72	89	97	98	98	98	97	97	97	97
NPRI	BLK1	527	508	508	509	514	513	511	506	320	320	320	322	322	331	331	322	511	515	521	517	522	509	519	511	515
NPRI	BLK2	529	514	511	512	516	514	476	467	518	358	338	338	341	383	409	479	512	518	523	521	524	512	520	514	517
PCGP	PGRG	526	499	260	262	265	263	261	263	261	262	261	262	263	272	274	261	261	603	602	598	602	587	599	591	593
PGLA	GT11	169	165	163	166	167	166	165	163	165	165	165	163	164	167	166	165	165	165	166	210	207	167	169	171	203
PGLA	GT12	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87	136	169	215	209	170	172	174
PGLA	ST10	93	92	91	93	92	92	91	91	92	91	92	90	91	93	92	92	92	86	206	239	227	205	207	208	220
PLPS	GT11	134	129	127	129	128	129	129	128	129	128	128	129	128	132	133	128	130	129	129	124	128	124	126	124	116
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	142	109	112	112	
PLPS	ST18	59	58	58	56	57	58	57	58	57	58	58	56	57	57	56	57	58	58	57	58	57	60	137	133	134
SPGP	BLK1	720	720	720	718	722	569	359	361	362	361	361	362	363	360	361	361	362	398	719	721	718	718	720	720	721
SPGP	BLK2	721	720	721	686	504	449	547	359	361	359	361	360	362	358	360	502	718	717	718	717	717	717	717	717	717
TJGS	GT1A	134	135	135	135	138	135	135	135	138	138	138	137	137	137	137	137	134	235	225	225	225	225	225	225	225
TJGS	GT1B	124	122	127	125	125	125	130	127	125	128	126	127	127	125	128	126	126	211	214	214	213	216	216	211	210
TJGS	ST1C	173	173	173	173	173	173	173	173	173	173	173	173	173	173	222	244	244	244	244	247	247	247	247	247	247
TJGS	GT2A	149	147	149	149	149	149	149	149	149	149	149	149	149	149	147	147	215	215	215	215	215	215	149	147	197
TJGS	GT2B	145	145	145	147	146	146	146	146	146	146	146	146	146	144	146	146	144	146	213	213	213	213	213	144	145
TJGS	ST2C	210	210	210	210	210	210	210	207	207	207	207	207	207	207	207	207	207	256	256	256	256	256	209	233	257
Total CCGT-Gas		5125	4964	4717	4697	4535	4314	4165	3953	3831	3669	3652	3646	3654	3723	3755	3788	4202	5132	5561	5636	5700	5805	6059	6138	5999
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	0
BSIA	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	20	20	20	20	20	12
BSIA	HY02	23	23	23	23	23	23	23	23	23	23	23	12	12	12	12	11	12	12	11	22	23	22	22	22	12
BSIA	HY03	24	24	24	24	24	24	24	23	24	24	24	23	11	11	11	10	11	10	10	23	23	23	23	23	11
CEND	HY01	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
CEND	HY02	10	9	9	10	10	10	10	10	10	10	10	10	9	10	10	10	10	10	10	9	10	10	10	10	9

Daily MW Generation on Wednesday

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
CEND	HY04	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
HTRG	HY01	125	124	124	125	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	64	64	64	64	64	64	64	64
HTRG	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
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	35	35	35	35	35	35	35
KNRG	HY02	25	24	23	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36	36	36	36	36	36	36
KNRG	HY03	25	24	24	24	24	25	24	24	25	25	25	25	25	24	25	24	35	35	35	35	35	35	35	35
KNYR	HY01	106	101	97	105	101	100	100	99	69	81	64	64	64	91	102	74	65	67	65	63	64	63	63	63
KNYR	HY02	102	101	97	102	100	100	100	99	63	79	80	60	65	70	61	59	62	63	61	60	65	64	64	64
KNYR	HY03	107	101	97	105	101	100	101	100	-1	-1	-1	-1	-1	-1	-1	-1	57	58	57	57	56	56	56	56
LPIA	HY01	16	15	15	16	15	15	14	12	12	12	12	12	10	10	12	14	14	15	16	16	16	16	16	16
LPIA	HY02	15	15	15	16	16	15	14	12	12	12	12	12	10	10	12	14	14	15	15	16	16	16	16	16
MNOR	HY01	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	5	5	2	2	2	2
PGAU	HY01	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	21	20	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	21	21	21	21	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	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
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	48	30	0	0	0	0
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	30	0	0	0	0
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	30	30	30	30	30
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	17	17	17	17	17
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	25	25	25	25	25
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	17	17	17	17	17
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	25	25	25	25	25
TMGR	HY02	91	50	44	86	45	88	46	51	50	65	45	45	45	65	90	90	45	84	66	46	59	43	52	43
TMGR	HY03	85	85	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	85	82	85	83	84	85	85	83
TMGR	HY04	87	46	41	81	41	82	42	47	47	62	42	41	42	61	85	84	41	79	62	43	56	40	49	40
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	89	93	86	89	87	87	-1	-1	-1	-1
UJLI	HY02	149	97	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	88	93	91	92	95	93	91	92
UPIA	HY01	5	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	5	5	5	5	5
UPIA	HY02	4	5	5	5	5	4	5	4	5	5	4	5	4	4	4	4	5	5	5	5	4	5	5	5
Total Hydro		1025	876	667	751	553	615	532	533	469	448	391	394	398	441	488	422	324	408	374	479	723	900	924	892
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	1	3	6	10	8	14	18	16	17	23
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	18	18	19	16	21	28	29	30
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	7	12	11	12	17	30	29	30
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	22	27	33	37	33	42	42
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	11	19	25	33	28	12	28	42
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	6	8	12	14	22	23	18	23	21
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	8	15	15	19	20	21	48	47
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	19	24	29	37	40	44	46	28
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	9	18	14	15	20	20	36	47
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	15	12	14	21	19	21	29	30
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7	14	30	37	35	41	37	32	37
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	11	18	30	31	35	40	44	42	51
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	11	16	22	19	18	23	29	36
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	7	15	20	15	13	18	24	16
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	43	96	157	251	291	333	348	359	459

Daily MW Generation on Wednesday

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	
PCUF	CUFG	7	7	6	7	10	8	8	7	7	7	7	8	6	6	8	7	8	7	8	10	6	4	5	5	5	4	4	4	4	4	4	4	4	4	5	5	3	5	5	4	5	4	6	2	1	1	2	
PCUF	CUFK	3	2	6	3	5	3	4	3	4	3	4	4	3	3	3	4	3	3	3	4	4	2	4	3	2	3	4	3	4	3	4	3	3	2	4	2	3	4	3	5	4	4	3	3	2	3		
Total Co-Gen		10	9	12	10	15	11	12	10	11	10	11	12	9	9	11	11	11	10	11	14	10	6	9	8	7	7	8	7	8	7	8	7	7	6	8	7	8	7	8	9	7	10	8	10	5	4	3	5
Total Gen		15726	15409	14924	14674	14305	14134	13904	13675	13506	13315	13241	13244	13260	13374	13451	13405	13781	14827	15465	15904	16301	16603	16860	16955	16862	16659	16605	16936	17316	17684	17769	17894	17925	17941	17663	16938	16423	16003	16118	17036	17446	17459	17427	17134	16982	16809	16678	16479
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		-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	0	0	0	0	0	0	0	-29	-31	-29	-31	-28	-29	-28	-29	-29	-29	-29	-30	-29	-31	-28	-27	-29	-29	-30	-30		
TIE-PLTG		-28	-21	-24	5	-84	-37	5	-36	-62	-60	10	-22	-13	-27	-62	-29	-15	-36	-71	-41	-50	-8	-22	-15	-16	-40	-36	-40	-37	-15	-21	34	36	50	37	51	47	55	18	-32	39	-11	40	1	77	57	46	113
Interconnection		-57	-50	-53	-24	-113	-66	-24	-65	-91	-89	-20	-52	-42	-56	-91	-58	-44	-65	-100	-41	-50	-8	-22	-15	-16	-40	-66	-70	-66	-44	-52	6	7	23	8	22	18	26	-12	-62	10	-42	12	-27	48	28	16	83
System Total		15797	15473	14991	14712	14432	14214	13942	13754	13611	13418	13275	13310	13316	13444	13556	13477	13839	14906	15579	15959	16365	16625	16896	16984	16892	16713	16685	17020	17396	17742	17835	17902	17932	17932	17669	16930	16419	15991	16144	17112	17450	17515	17429	17175	16948	16795	16676	16410
SRev ST-Coal		107	113	146	397	379	383	383	396	380	389	387	385	376	379	380	396	377	394	299	147	124	142	131	143	140	133	129	143	135	148	122	150	130	151	133	139	144	144	149	140	123	149	120	123	136	123	131	136
SRev CCGT-Gas		1212	1012	1256	1280	1440	1663	1812	2025	2147	2310	2325	2333	2323	2256	2223	2187	1773	847	418	377	313	336	275	223	362	503	537	414	278	215	248	280	284	352	743	1042	1125	1489	1221	475	171	236	269	521	556	603	602	706
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	-3	
Syncon		489	489	763	763	612	763	763	763	713	713	562	562	562	930	930	930	930	930	702	615	489	489	489	489	802	802	489	489	302	151	151	302	302	302	302	489	903	903	676	676	302	302	302	676	676	525	500	651
Hydro		85	234	169	45	269	56	139	138	202	273	330	478	474	431	81	147	245	161	195	378	325	424	400	482	438	219	264	491	376	629	621	565	371	370	247	167	77	57	110	187	473	525	550	210	313	153	301	245
S.Reserve Total		1893	1848	2334	2485	2700	2865	3097	3322	3492	3685	3755	3758	3735	3628	3614	3660	3325	2332	1842	1604	1377	1391	1295	1337	1429	1657	1732	1537	1278	1294	1142	1146	1087	1175	1425	1837	2249	2593	2156	1478	1069	1212	1241	1530	1681	1404	1534	1735