

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,186 MW
Distillate	0 MW
Total TNB	2,186 MW
Total IPP	16,968 MW
Total Co-Gen	0 MW
Total System	22,705 MW

Generation Mix

Type	MWh	Percentage
Hydro	11,691	3.08 %
Gas	48,323	12.74 %
Total TNB	60,014	15.82 %
ST-Coal	239,227	63.06 %
LSS	3,285	0.87 %
Gas	77,890	20.53 %
Total IPP	320,402	84.46 %
Co-Gen	316	0.08 %
Total Co-Gen	316	0.08 %
Total Generation	380,732	100.37 %
PLTG	677	0.18 %
HVDC	719	0.19 %
Interconnection	1,396	0.37 %
Net Energy	379,336	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	19,008 MW
TNB Generation	3,221 MW
IPP Generation	14,468 MW
Spinning Reserve	1,306 MW
Maximum Demand	17,640 MW
Net Energy	379,336 MWH
Load Factor	89.60 %

Fuel Cost

Total Cost:	46,645,485.44 RM
Cost per Unit	12.28 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	528
Hydro	377
Syncon	610
Thermal	192
Total	1,707

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	58
TJGS	179
Total TNB	237
CBPS	47
NPRI	129
PGLA	100
PLPS	37
YPKA	53
Total IPP	367
Total Gas	604
Total Gas Required	604

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	16020	15086	14511	14145	13760	13510	13594	13562	13693	15357	16249	16703	16760	16559	17268	17633	17640	17301	16300	16057	17101	17057	16642	16316

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, April 6, 2021 11:43:22 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Thursday

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	692	691	694	692	693	694	693	596	580	552	503	502	605	600	600	601	603	692	694	691	686	692	693	689	688	692	691	691	692	692	691	692	691	688	693	691	692											
JMAH	U002	693	694	698	693	697	695	697	617	544	555	504	504	612	603	602	604	606	684	696	696	699	694	695	696	687	696	691	699	696	696	696	695	696	693	698	698	696	696	698	694	696	698	694	696	696			
JMHE	U001	983	978	980	927	928	932	849	855	853	848	852	848	850	851	848	849	852	851	852	980	979	980	981	977	979	980	979	980	979	980	979	980	981	982	974	981	978	977	982	981	980	978	975	983	977	981	980	983
JMHE	U002	983	981	979	931	929	931	850	852	851	848	851	853	850	849	854	850	853	850	849	981	981	980	979	976	976	979	980	978	982	979	977	981	981	980	974	981	978	977	983	981	979	977	976	979	980	981	979	980
JMJG	U001	671	672	672	674	672	671	670	651	645	598	597	598	624	663	671	638	640	674	674	678	679	673	671	680	680	676	678	677	681	676	676	679	685	675	677	678	674	680	679	677	678	678	680	678	676	677	679	678
JMJG	U002	679	678	677	676	679	676	679	660	651	601	603	594	624	666	672	656	644	670	682	668	673	675	673	671	670	669	672	674	672	672	673	676	673	674	673	672	672	677	671	675	669	673	668	675	667	676	673	675
JMJG	U003	672	669	668	671	671	670	670	648	645	641	595	596	620	661	665	660	660	666	668	671	675	674	670	673	664	677	668	668	666	664	673	668	668	673	660	667	668	671	672	663	667	671	668	668	671	670	669	668
JMJG	U004	977	977	977	933	902	902	854	854	854	854	855	856	856	855	855	854	873	933	978	972	973	973	976	975	975	976	969	972	971	970	969	970	968	965	970	971	970	968	969	969	967	971	971	970	969	969		
JMJG	U005	800	801	801	801	803	801	800	801	803	799	803	803	801	800	800	801	803	800	801	805	801	797	803	801	801	801	799	803	798	801	801	798	804	797	801	801	804	798	796	800	800	799	799	800	801	804	801	801
PKLG	U003	283	280	280	280	279	279	192	139	145	148	149	150	150	149	149	149	149	244	281	280	282	283	281	281	280	278	281	280	282	282	284	283	280	279	281	280	281	279	279	281	282	287	283	280	281	281	278	279
PKLG	U004	283	279	277	278	277	274	167	154	152	156	157	152	155	155	155	155	154	255	283	281	276	277	276	274	275	277	276	277	281	277	278	279	278	278	279	276	277	208	207	216	257	279	281	280	276	277	272	
PKLG	U006	451	449	450	446	445	448	449	448	448	445	448	445	450	449	449	450	449	449	453	449	446	450	451	446	419	449	450	445	445	448	450	449	451	449	450	448	449	449	446	446	449	446	417	413	405	438	451	449
TBIN	U001	690	690	690	690	691	691	691	691	691	690	690	690	689	691	689	689	691	690	690	692	691	688	690	689	688	690	689	689	691	689	688	690	688	692	690	690	690	690	689	689	691	690	690	689	690	691	689	
TBIN	U002	693	696	693	691	690	688	691	691	691	690	693	692	696	693	692	696	692	694	692	692	692	692	693	692	695	691	692	694	689	691	693	690	692	691	692	698	693	687	690	694	693	692	690	693	692	692	692	692
TBIN	U003	689	691	691	692	690	690	695	694	690	689	691	689	689	688	691	693	689	686	690	690	690	692	689	685	688	690	694	687	691	691	690	690	690	690	690	690	691	691	691	690	692	688	689	689	690	691	689	
Total ST-Coal		10239	10226	10227	10075	10046	10042	9647	9351	9243	9114	8990	8973	9271	9375	9389	9340	9345	9779	9934	10232	10222	10221	10217	10209	10161	10221	10217	10213	10216	10212	10218	10223	10228	10214	10207	10218	10204	10219	10142	10139	10149	10194	10171	10182	10164	10214	10218	10212
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	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	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	356	363	296	229	215	218	223	222	224	225	223	228	223	224	208	207	220	217	224	261	261	261	361	363	362	362	223	297	362	363	362	359	366	365	361	367	367	221	223	364	352	358	358	359	324	305	333	329
EMPP	BLK1	760	374	373	375	374	374	373	373	375	375	373	375	374	373	374	372	373	374	499	759	758	750	748	758	759	759	756	754	755	757	757	751	752	755	759	757	757	757	759	770	770	772	769	770	768	0	0	
EMPP	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GLGR	GT01	108	108	107	106	107	106	106	108	108	107	109	108	108	107	107	108	109	108	108	107	108	107	107	106	106	107	106	107	106	107	106	107	109	108	110	109	108	109	108	108	106	108	108	108	109	108	109	
GLGR	GT02	107	107	107	107	107	107	107	106	106	107	108	107	108	108	108	107	108	107	107	108	107	107	107	107	106	105	104	104	104	106	105	104	105	105	105	106	104	107	106	106	106	106	106	106	106	107	106	107
GLGR	ST1C	97	97	97	97	97	97	97	97	96	96	96	97	96	96	96	96	96	96	97	96	97	97	97	97	98	97	97	96	96	96	97	96	97	97	97	97	97	98	98	97	97	97	96	96	96	96	97	97
NPRI	BLK1	499	505	485	446	446	445	446	400	320	319	320	319	320	320	319	320	320	319	398	398	396	515	513	497	515	514	515	515	515	512	514	516	511	502	515	514	513	517	518	527	525	525	515	476	516	514		
NPRI	BLK2	400	399	328	320	319	320	319	319	322	315	320	321	320	321	298	298	320	315	320	394	391	397	401	398	380	399	398	397	400	403	398	398	394	396	392	386	409	398	400	404	389	398	396	397	386	317	400	400
PCGP	PGRG	597	602	592	553	347	276	276	276	274	277	276	276	276	274	275	280	281	603	593	590	604	603	599	577	602	602	601	604	608	602	602	608	606	600	584	608	602	605	607	588	601	594	599	586	556	602	604	
PGLA	GT11	167	169	167	169	165	165	169	169	167	169	170	169	170	161	161	169	167	168	168	165	168	168	166	161	168	168	167	167	167	224	223	224	222	165	172	168	170	190	212	166	166	164	164	157	168	170		
PGLA	GT12	169	172	169	172	169	169	172	174	173	172	173	173	163	164	172	170	172	170	168	172	170	164	172	171	171	191	226	226	226	226	226	226	225	167	174	172	174	194	216	170	170	168	167	161	172	173		
PGLA	ST10	204	206	205	207	204	202	206	204	203	205	203	205	205	205	200	201	202	202	205	205	203	207	208	207	207	208	208	220	251	251	252	252	251	253	203	210	208	208	221	238	207	206	211	204	197	209	206	
PLPS	GT11	132	133	133	133	133	133	133	134	134	133	135	133	134	133	133	133	133	133	133	133	134	133	133	133	133	134	134	133	133	136	136	13																

Daily MW Generation on Thursday

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	
BSIA	HY03	22	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22	22	22	22
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	
CEND	HY02	10	10	10	10	10	10	10	10	10	10	10	10	9	9	10	10	10	9	9	9	9	9	9	9	
CEND	HY03	10	0	0	0	0	0	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	7	8	8	8	7	8	8	
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	65	65	65	65	65	-1	-1	-1	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36	36	36	36	36	36	36	36	
KNRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	37	37	37	37	37	37	37	37	
KNRG	HY03	23	23	23	24	23	23	24	24	24	24	23	24	23	24	38	36	36	36	36	36	36	36	36	36	
KNYR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	100	99	97	100	101	101	60	62	101	101	98	62	59	
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	96	99	97	95	99	101	99	54	57	60	60	99	101	102	
KNYR	HY04	56	60	59	62	58	58	63	72	72	61	67	72	64	77	54	55	93	97	91	87	97	100	99	56	
LPIA	HY01	15	15	15	15	15	15	15	15	15	15	15	15	16	16	16	16	16	14	14	12	12	12	15	15	
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	16	16	18	15	13	13	13	13	13	16	16	15	
MNOR	HY01	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	1	
PGAU	HY01	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	
PGAU	HY02	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY03	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	21	21	21	21	21	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	30	30	30	30	30	0	0	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	0	0	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	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	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	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	-1	-1	-1	
TMGR	HY02	45	44	45	45	44	45	48	60	59	45	51	59	46	60	39	39	44	46	47	44	43	66	51	45	
TMGR	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	
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	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	91	94	96	95	92	96	94	
UPIA	HY01	6	6	5	5	6	5	5	6	6	6	6	6	6	6	6	6	6	6	6	4	5	5	5	5	
UPIA	HY02	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	4	5	
Total Hydro		282	296	210	234	209	209	228	250	249	223	236	249	227	254	210	211	218	455	487	437	427	489	461	451	313
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	0
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	8	12	17	24	18	20	28	26	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	9	15	15	16	27	30	23	29	29	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	11	16	21	26	30	30	30	30	30	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	12	28	31	37	40	43	44	47	46	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	13	20	26	20	30	25	22	32	31		
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	2	5	12	11	14	15	16		
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	16	25	31	38	42	46	49	50		
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	21	18	30	39	43	39	50	50		
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	15	21	23	28	38	42	45	46		
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	12	17	21	26	30	30	30	30		
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	4	17	40	50	50	47	38	32		
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	16	28	37	45	51	52	52	51		

Daily MW Generation on Thursday

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
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	1	1	4	8	9	11	17	11	13	14
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	90	164	250	323	405	465	464	482	496
PCUF	CUFG	10	10	11	10	11	11	10	10	10	9	10	10	10	10	11	10	10	9	9	10	11	10	10	10
PCUF	CUFK	3	3	2	2	5	3	2	4	4	3	4	3	4	2	5	2	2	4	3	2	4	0	5	3
Total Co-Gen		13	13	13	12	16	14	12	14	14	12	14	13	15	11	13	12	13	15	12	14	12	14	13	14
Total Gen		16102	15614	15222	14936	14595	14448	14193	13943	13804	13647	13537	13538	13611	13734	13615	13569	13694	14783	15383	16023	16315	16484	16724	
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		30	31	31	29	29	31	31	31	31	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30
TIE-PLTG		55	84	108	62	58	10	20	-22	16	40	1	-36	-9	25	26	29	-26	-19	1	36	39	-19	-6	30
Interconnection		85	115	139	91	87	41	51	8	47	69	30	-7	20	55	56	59	4	10	30	67	70	11	24	60
System Total		16020	15502	15086	14848	14511	14410	14145	13938	13760	13581	13510	13548	13594	13682	13562	13513	13693	14777	15357	15960	16249	16476		
SRev ST-Coal		152	165	164	316	338	342	439	630	649	714	752	754	720	602	588	634	642	466	358	159	169	170	174	182
SRev CCGT-Gas		748	640	948	1090	1431	1651	1596	1731	1761	1762	1762	1756	1961	1966	2055	2054	1971	1614	1283	1104	1122	1097	882	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
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		1117	966	1117	966	1117	1117	1117	1117	1117	1117	1117	1117	1117	1117	1117	915	764	915	915	764	915	915	915	1016
Hydro		275	402	139	266	140	140	131	109	110	136	123	110	132	105	149	148	141	105	224	123	133	223	100	
S.Reserve Total		2292	2173	2368	2638	3026	3250	3283	3587	3637	3729	3754	3737	3930	3790	3909	3953	3871	3100	2629	2301	2339	2254	2071	