

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,231 MW
Distillate	0 MW
Total TNB	2,231 MW
Total IPP	16,714 MW
Total Co-Gen	0 MW
Total System	22,924 MW

Generation Mix

Type	MWh	Percentage
Hydro	23,713	6.27 %
Gas	63,090	16.69 %
Total TNB	86,803	22.97 %
ST-Coal	216,089	57.17 %
LSS	2,673	0.71 %
Gas	73,140	19.35 %
Total IPP	291,902	77.23 %
Co-Gen	181	0.05 %
Total Co-Gen	181	0.05 %
Total Generation	378,886	100.24 %
PLTG	190	0.05 %
HVDC	717	0.19 %
Interconnection	907	0.24 %
Net Energy	377,979	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	19,217 MW
TNB Generation	4,567 MW
IPP Generation	13,434 MW
Spinning Reserve	1,207 MW
Maximum Demand	17,985 MW
Net Energy	377,979 MWH
Load Factor	87.57 %

Fuel Cost

Total Cost:	49,862,573.74 RM
Cost per Unit	13.16 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	550
Hydro	387
Syncon	236
Thermal	154
Total	1,327

Time Weather Temperature

Afternoon	Hot	33
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	48
SRDG	5
TJGS	183

Total TNB 236

CBPS	47
NPRI	143
PGLA	48
PLPS	54

Total IPP 292

Total Gas 529

Total Gas Required 529

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	15374	14535	14040	13624	13319	13160	13424	13415	13797	15673	16521	17061	17122	16720	17454	17846	17908	17232	16195	16245	17097	16967	16441	16052

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, May 7, 2021 1:44:10 PM

(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	378	298	302	374	400	461	502	525	600	579	552	553	568	694	647	695	694	692	691	694	693	693	693	694	691	687	692	691	691	692	694	692	693	692	689	692	691	692	694	692	691	688	695	694	695	692	692	700	
JMAH	U002	369	308	303	406	403	458	503	523	604	583	555	553	558	697	654	696	695	696	698	695	692	696	695	696	695	696	695	694	695	695	695	696	693	696	697	692	696	696	696	696	697	696	692	692	698	696	693	697	707
JMHE	U001	980	846	846	846	850	853	851	845	853	854	852	850	849	852	851	849	850	921	927	979	980	980	979	980	977	974	971	980	977	977	982	981	977	977	981	975	980	980	978	979	982	982	981	979	980	979	978	977	
JMHE	U002	981	846	849	846	849	852	850	845	852	853	850	848	848	849	849	850	849	937	928	980	980	981	978	982	977	973	971	980	978	977	982	982	977	979	979	976	980	980	980	981	980	981	981	980	981	980	979	978	
JMJG	U001	676	674	677	672	668	674	671	673	667	673	675	673	670	671	668	665	672	672	669	672	672	673	666	673	671	672	673	673	672	671	671	679	668	668	626	670	675	671	662	667	670	673	671	672	677	671	673	676	
JMJG	U002	671	673	673	671	672	671	674	673	671	672	673	672	672	675	676	672	673	673	673	673	673	672	674	674	672	672	673	674	672	672	669	672	682	669	672	673	672	671	678	671	670	679	673	675	672	672	670	675	
JMJG	U003	669	670	670	668	670	668	673	677	667	673	669	673	669	672	667	670	671	669	670	670	669	667	670	671	672	669	670	671	672	671	668	673	673	666	682	665	669	665	665	662	675	673	657	683	661	666	671		
JMJG	U004	903	902	901	902	901	857	854	854	854	854	855	854	852	853	854	853	853	867	903	895	895	895	894	896	892	899	898	896	897	894	894	895	896	896	897	895	896	897	895	896	898	897	895	897	896	896	896		
JMJG	U005	895	894	892	890	892	849	850	850	852	851	850	851	852	850	849	851	850	870	892	895	890	892	892	892	894	891	890	891	890	892	889	892	892	891	894	890	894	892	892	888	892	887	892	891	891	892	891		
PKLG	U003	149	150	150	148	150	145	148	148	149	150	151	151	150	151	151	150	235	276	279	276	280	278	279	280	277	278	278	278	277	277	276	278	277	276	278	277	276	277	275	278	278	275	276	273	271	275	276	276	274
PKLG	U004	155	154	154	155	154	152	150	152	148	156	156	157	157	155	153	157	221	272	278	277	269	275	276	276	276	276	277	275	279	278	277	278	276	278	276	273	277	277	281	276	273	277	281	277	276	275	276	275	
PKLG	U006	272	235	149	82	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
TBIN	U002	504	448	323	387	404	509	605	649	703	688	696	692	697	694	689	696	694	691	695	694	695	692	696	695	695	696	693	696	692	690	695	693	694	693	694	696	692	693	694	691	695	693	690	697	694	691	694	708	
TBIN	U004	984	983	984	983	982	934	853	853	851	853	854	853	854	853	853	854	853	879	933	982	981	983	984	983	983	983	982	983	983	983	983	984	984	984	983	984	984	985	980	985	984	984	982	984	983	983	982	983	984
Total ST-Coal		8586	8081	7873	8030	8070	8083	8184	8267	8471	8439	8388	8380	8396	8666	8561	8658	8810	9115	9236	9382	9368	9379	9376	9390	9371	9370	9363	9379	9375	9367	9383	9398	9370	9376	9330	9374	9380	9378	9371	9369	9370	9382	9380	9367	9400	9359	9372	9412	
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		
CBPS	BLK2	350	356	356	306	224	224	219	213	221	223	218	226	223	223	204	229	227	223	218	224	284	354	358	357	352	353	217	341	358	353	357	368	358	360	357	349	224	224	268	358	356	366	358	353	353	362	358	219	
EMPP	BLK1	751	750	752	756	755	759	755	758	756	755	753	749	750	751	756	113	113	185	671	750	755	744	742	738	744	741	181	183	176	178	382	385	451	465	457	503	563	563	565	244	374	375	374	418	564	584	584	589	
EMPP	BLK2	374	374	374	374	374	375	374	374	375	374	374	373	374	373	373	374	191	189	186	0	0	0	69	163	163	368	710	710	710	709	710	709	711	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GLGR	GT01	100	101	100	99	68	69	69	66	70	69	68	69	67	68	67	68	69	67	67	67	67	67	68	67	66	67	67	93	89	69	67	68	67	67	65	66	67	76	92	84	84	85	68	67	68	66			
GLGR	GT02	100	101	100	100	67	67	68	68	68	68	68	68	68	68	68	68	68	68	68	67	68	67	68	68	67	67	67	68	93	89	67	68	67	68	67	75	92	85	85	84	67	67	67	67	66				
GLGR	ST1C	91	91	91	91	73	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	71	72	72	72	84	88	73	71	72	72	72	72	72	73	78	90	83	83	83	73	72	72	72			
NPRI	BLK1	508	523	517	506	526	526	319	308	320	320	321	320	321	321	331	332	330	399	504	517	515	508	508	511	502	505	467	506	499	495	498	512	496	507	500	493	393	422	445	518	511	516	512	509	508	516	507	437	
NPRI	BLK2	511	526	521	508	335	337	334	321	332	332	326	355	523	347	308	528	349	340	327	342	438	484	487	487	477	337	411	521	507	491	493	529	513	523	509	492	392	398	491	511	522	523	519	500	492	522	497	326	
PCGP	PGRG	580	600	593	575	403	261	262	261	261	262	261	262	262	262	263	264	261	401	260	262	601	590	592	596	587	589	595	603	591	588	593	609	588	606	594	585	601	601	599	605	595	602	598	593	592	603	593	588	
PGLA	GT11	152	158	155	150	158	158	157	154	157	157	154	159	159	158	148	160	159	158	154	159	156	154	155	155	153	152	155	158	218	217	149	179	217	221	219	153	156	157	157	223	223	225	224	223	155	158	154	154	
PGLA	ST10	87	88	89	89	89	89	89	89	88	88	89	90	89	89	88	89	90	89	90	90	90	90	91	91	90	91	90	116	116	94	91	115	116	115	89	89	90	91	114	111	114	112	111	88	88	89	89		
PLPS	GT11	123	128	126	122	129	128	128	124	126	126	125	129	129	129	121	131	127	128	128	129	129	129	124	127	125	125	125	124	125	127	124	134	111	119	112	115	130	111	116	114	115	115	113	131	108	125	129	126	124
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	0	0	0	0	0	0	0	0	0	0	73	119	64	64	120	118	135	116	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	0	0	0	0	0	0	0	0	60	133	131	109	116	108	112	128	108	112	63	63	112	112	126	127	30	0	0	0	0	
PLPS	ST18	59	58	57																																														

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	HY01	7	7	8	8	8	7	7	7	8	8	8	8	9	9	9	9	9	9	9	9	10	9	9	10
CEND	HY02	7	7	7	8	8	7	7	8	8	7	7	8	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY03	8	8	8	8	9	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9
HTRG	HY01	-1	-1	-1	-1	64	64	64	64	64	64	64	64	64	64	64	64	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	0	0	0	0	0	0	0	0
KNRG	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	HY03	24	24	24	24	25	25	25	24	25	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
KNRY	HY01	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRY	HY02	-1	-1	-1	-1	61	59	59	98	58	-1	-1	-1	-1	99	106	105	105	104	104	104	105	104	105	105
KNRY	HY03	-1	-1	-1	-1	-1	99	99	97	-1	-1	-1	-1	-1	54	92	101	100	99	94	99	101	98	98	98
KNRY	HY04	55	54	55	56	61	60	59	58	58	58	61	63	62	93	102	101	100	95	99	102	99	99	99	99
LPIA	HY01	17	18	19	19	19	19	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
LPIA	HY02	17	18	19	19	19	19	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
MNOR	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
PGAU	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
PGAU	HY02	-1	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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
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	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	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY02	41	46	43	39	82	48	45	43	44	44	43	86	89	67	40	90	86	46	46	46	46	43	43	46
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY04	29	-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
UPIA	HY01	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UPIA	HY02	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Total Hydro		323	232	214	211	392	429	423	455	318	282	282	329	334	365	441	585	895	934	1088	1242	1230	1321	1365	1401
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
GBLS	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
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

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			
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	6	7	13	11	18	29	32	44	44	44	28	21	13	0	1	1	0	1	1	1	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	1	5	9	5	6	21	9	7	24	27	25	12	11	3	2	4	5	14	25	18	5	2	1	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	8	49	107	152	211	273	304	340	395	406	444	415	429	290	311	302	283	227	165	122	64	36	18	3	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	3	4	3	5	4	5	4	3	4	5	4	5	6	3	4	4	6	5	5	6	4	4	5	3	4	4	4	3	4	4	4	5	4	5	5	4	3	4	5	5	5	5	5	5	6	6				
PCUF	CUFK	3	3	4	3	4	3	4	2	4	4	3	2	3	2	2	3	4	3	4	3	4	3	4	3	2	4	4	3	3	4	4	3	4	3	3	1	3	3	4	3	3	4	3	2	2	4	2			
Total Co-Gen		6	7	7	8	8	8	8	5	8	9	7	7	7	9	5	6	7	10	8	9	9	8	7	9	6	6	8	7	7	7	8	9	7	9	8	8	5	6	7	9	8	8	9	8	7	7	10	8		
Total Gen		15407	14896	14552	14404	14035	13881	13660	13476	13355	13293	13216	13305	13488	13618	13481	13394	13790	14921	15654	15957	16486	16955	17122	17280	17148	16971	16783	17226	17578	17934	17908	18010	18028	17918	17339	16823	16309	16056	16288	16975	17108	17196	17014	16848	16503	16243	16108	15720		
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	0			
TIE-HVDC		30	29	29	30	30	30	30	29	29	30	30	30	30	30	30	29	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	31	29	29	31	31	30	32	29	29	29	29	31	31	30	30		
TIE-PLTG		6	-15	-9	33	-32	-22	9	14	10	-29	30	-10	37	-35	40	-64	-32	-88	-44	-109	-63	-1	34	-27	-1	26	36	-8	97	54	35	-1	95	58	82	88	86	-7	17	-44	-15	26	21	-18	34	6	30	54		
Interconnection		36	15	20	62	-2	9	39	43	39	1	59	19	67	-5	69	-35	-3	-59	-15	-79	-32	29	64	3	29	56	66	22	127	84	65	29	124	89	111	117	117	24	46	-12	14	55	50	11	65	37	59	84		
System Total		15374	14884	14535	14345	14040	13875	13624	13436	13319	13295	13160	13289	13424	13626	13415	13433	13797	14984	15673	16039	16521	16929	17061	17280	17122	16918	16720	17207	17454	17853	17846	17985	17908	17833	17332	16710	16195	16035	16245	16990	17097	17144	16967	16840	16441	16209	16052	15639		
S.Rev ST-Coal		411	574	573	581	588	672	705	680	645	647	637	639	645	511	613	518	517	390	290	144	158	147	150	136	155	156	163	147	151	159	143	128	156	150	131	152	146	148	155	157	156	144	146	159	126	167	154	114		
S.Rev 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	88	37	36	0	111	74	114	0	0	0	0	0	0	0	0	0	0	0		
S.Rev CCGT-Gas		497	414	534	832	1347	1552	1869	2167	2358	2350	2374	2321	2161	2331	2442	2135	2062	1406	1471	1422	940	591	568	606	707	1000	1091	829	357	264	403	334	359	285	298	745	1242	1339	1088	304	271	210	241	437	394	706	746	1151		
S.Rev 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		
S.Rev 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		
S.Rev 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		904	840	991	991	764	663	663	663	764	865	865	865	865	764	789	663	663	663	489	338	489	151	302	302	302	489	302	302	302	151	151	151	151	302	0	302	489	489	489	302	302	151	151	151	151	0	151	302		
Hydro		264	281	150	153	199	215	219	187	221	156	156	109	104	174	78	59	24	69	217	215	76	323	233	249	277	132	167	162	358	441	590	557	496	395	599	201	23	20	21	280	453	403	559	563	367	441	230	108		
S.Reserve Total		2076	2109	2248	2557	2898	3102	3456	3697	3988	4018	4032	3934	3775	3780	3922	3375	3266	2528	2467	2119	1663	1212	1253	1293	1441	1777	1723	1440	1168	1103	1324	1207	1198	1132	1139	1474	2014	1996	1753	1043	1182	908	1097	1310	1038	1314	1281	1675		