

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,333 MW
Distillate	0 MW
Total TNB	2,333 MW
Total IPP	17,327 MW
Total Co-Gen	0 MW
Total System	23,348 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,520	5.13 %
Gas	70,657	19.57 %
Total TNB	89,177	24.71 %
ST-Coal	209,080	57.92 %
ST-Gas	68	0.02 %
LSS	3,201	0.89 %
Gas	59,121	16.38 %
Total IPP	271,470	75.21 %
Co-Gen	169	0.05 %
Total Co-Gen	169	0.05 %
Total Generation	360,816	99.96 %
PLTG	551	0.15 %
HVDC	-698	-0.19 %
Interconnection	-147	-0.04 %
Net Energy	360,963	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:	19:30:00 Hour
Total Set On Bus	17,788 MW
TNB Generation	4,507 MW
IPP Generation	11,952 MW
Spinning Reserve	1,321 MW
Maximum Demand	16,463 MW
Net Energy	360,963 MWH
Load Factor	91.36 %

Fuel Cost

Total Cost:	54,459,592.39 RM
Cost per Unit	15.10 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	367
Hydro	398
Syncon	471
Thermal	222
Total	1,458

Time	Weather	Temperature
Afternoon	Rainy	31
Morning	Sunny	27

Gas Usage

Station	(mmcsfd)
GLGR	55
TJGS	212
Total TNB	267
CBPS	55
NPRI	163
PGLA	73
PLPS	47
SKSP	3
PKLG	1
Total IPP	341
Total Gas	607
Total Gas Required	607

Alternate Fuel Usage

Station	(mmcsfd)
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	15950	15238	14710	14229	13903	13431	13416	13025	12830	13888	14506	14999	15116	15101	15794	16051	16264	16065	15587	15791	16367	16293	16204	16006

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, June 4, 2021 10:03:22 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	693	691	691	693	691	691	689	692	694	691	643	602	601	603	497	451	452	452	502	552	551	693	694	692	691	692	693	693	694	693	691	693	692	694	693	693	692	692	692	692	694	695	670	601	601	599			
JMAH	U002	695	697	695	694	691	696	694	695	695	694	660	603	604	607	500	453	453	454	499	554	553	690	694	695	697	698	697	696	701	695	697	695	696	697	698	698	696	698	698	695	695	697	693	697	656	592	605	605	
JMHE	U001	748	750	748	751	750	751	750	750	751	748	750	753	751	752	746	748	749	751	749	749	749	750	750	748	750	750	750	751	745	746	753	750	747	753	751	748	745	753	747	747	751	747	750	748	750	749	746		
JMHE	U002	981	982	979	979	981	983	969	982	854	845	852	851	852	853	783	801	800	800	801	897	899	901	982	979	977	981	980	981	979	973	976	981	980	980	979	983	975	973	983	977	977	979	976	980	979	975	982	976	
JMJG	U001	646	650	649	646	644	644	646	651	647	647	649	648	645	647	645	651	632	634	645	648	650	644	650	645	650	651	644	649	649	645	640	649	643	648	647	646	641	647	647	656	644	640	650	660	653	644	648	642	
JMJG	U003	670	668	667	669	668	668	669	667	668	668	664	669	664	664	666	666	667	665	666	669	664	669	673	655	674	662	670	663	667	667	666	666	669	667	669	672	667	671	662	670	666	662	666	660	662	662	666	659	
JMJG	U005	889	892	889	889	892	892	892	890	870	848	850	851	849	849	851	848	848	844	853	892	895	889	890	892	890	891	888	894	887	889	889	895	688	780	838	890	891	890	891	892	890	891	891	890	892	892	890	892	
PKLG	U004	273	274	267	176	157	155	156	157	155	157	156	157	157	157	162	157	158	156	156	159	156	156	161	154	159	156	219	265	270	271	275	275	273	275	276	275	282	277	277	274	268	274	275	272	274	275	275		
PKLG	U006	447	450	440	375	270	267	269	272	266	270	267	271	267	272	266	270	269	271	266	271	269	267	270	269	267	270	266	328	425	445	450	448	450	450	449	447	450	448	448	450	449	447	449	449	450	449	450	449	
TBIN	U001	691	690	690	689	690	690	690	689	690	689	691	691	691	667	619	649	647	694	689	691	690	690	687	689	690	689	689	690	689	690	690	689	689	689	690	687	685	689	687	690	690	689	692	689	691	689	669		
TBIN	U002	690	692	694	693	687	690	686	693	693	692	693	689	691	693	669	605	652	656	691	688	693	692	692	688	687	693	691	694	692	692	688	690	692	688	697	689	691	690	692	691	691	696	692	691	686	695	689	673	
TBIN	U003	692	693	693	694	690	694	693	692	692	694	693	695	693	684	674	618	656	653	691	691	692	693	689	691	694	547	503	503	503	502	503	521	604	602	603	602	603	603	661	697	692	690	692	691	692	698	674		
TBIN	U004	984	983	983	985	984	914	854	851	856	853	854	855	853	853	854	852	852	854	852	904	903	903	981	982	985	984	982	983	982	983	983	985	983	983	983	983	982	984	984	982	983	981	984	982	982	984	986	984	
Total ST-Coal		9099	9112	9085	8933	8795	8735	8657	8682	8530	8497	8421	8334	8318	8325	7980	7739	7837	7837	8065	8363	8365	8637	8811	8784	8805	8668	8609	8742	8885	8888	8889	8923	8728	8900	8973	9025	8997	9008	9021	9075	9094	9089	9095	9111	9029	8901	8928	8843	
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		
PKLG U002		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	29	33	33	23	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	19	29	33	33	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CBPS	BLK2	362	365	360	363	364	367	360	367	369	364	364	367	360	361	369	370	365	363	357	356	354	357	364	361	362	362	362	355	361	360	360	360	362	360	362	358	362	357	365	357	350	365	363	361	362	365	359	354	
GLGR	GT01	104	105	75	67	68	68	68	67	67	86	105	105	105	91	66	68	66	68	96	100	101	102	101	99	100	100	100	99	101	99	101	101	101	100	100	101	100	99	100	99	100	100	101	100	101	100	98		
GLGR	GT02	104	103	73	68	67	67	67	67	67	87	104	104	104	90	67	68	68	98	100	101	99	100	100	100	100	100	100	99	100	100	100	100	100	100	100	101	100	100	100	100	100	101	100	99	100	100	100		
GLGR	ST1C	94	94	82	73	72	72	73	72	80	93	94	94	89	73	73	73	72	86	91	91	92	92	91	92	91	91	92	92	92	92	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91		
NPRI	BLK1	525	527	518	524	525	530	526	527	529	524	525	532	527	526	527	532	526	524	519	515	524	525	525	525	525	523	518	518	517	519	518	518	518	520	522	516	521	515	512	526	520	525	526	527	525	514			
NPRI	BLK2	527	528	521	528	525	532	527	530	532	527	529	530	529	526	530	532	527	523	518	527	528	526	526	524	520	520	520	514	515	515	517	514	516	515	516	518	518	520	520	514	521	522	523	523	524	526	515		
PCGP	PGRG	402	405	392	400	404	311	303	305	310	400	401	413	404	402	265	272	260	350	393	390	401	403	401	401	401	402	404	396	416	404	404	401	414	401	400	400	403	387	407	388	382	401	396	400	401	410	401	386	
PGLA	GT11	169	186	166	200	170	176	216	167	164	196	158	195	166	158	179	189	160	159	211	211	213	212	212	209	211	211	211	209	215	211	212	212	215	211	211	213	193	173	223	224	219	226	225	229	231	230	231	228	
PGLA	GT12	173	190	170	204	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	61	137	221	224	220	226	227	232	232	231	234	230			
PGLA	ST10	208	210	202	224	158	93	106	90	94	102	88	93	88	88	104	102	88	88	107	106	107	107	108	108	108	110	109	110	110	109	108	109	108	108	107	96	179	247	249	249	251	252	253	253	253	254	254		
PLPS	GT11	127	129	125	128	129	134	129	128	132	128	129	132	128	126	131	133	130	129	144	145	143	145	143	143	142	141	141	137	142	140	141	139	138	140	140	139	138	135	141	129	130	133	135	135	139	133	131		
PLPS	GT13	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	81	142	130	129	131	131	130	131	130	129					
PLPS	ST18	122	57	57	57	57	59	57	58	56	56	56	57	56	56	58	56	56	56	58	58	57	58	58	57	57	55	57	58	58	57	58	58	58	57	58	59	116	144	141	141	143	141	141	141	140	141	142		
SKSP	BLK1	328	218	127	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
SPGP	BLK1	721	721	720	721	718	723	717	719	721	360	360	36																																					

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	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	36	25	24	24	25	25	25	0	0	0	0	0	0	0	0	23	23	23	23	23	23	23	23	23
KNRG	HY02	37	24	22	23	23	24	23	0	0	0	0	0	0	0	0	0	0	0	26	38	38	38	37	37
KNRG	HY03	36	22	21	21	22	22	22	23	23	22	22	23	21	22	23	22	21	0	0	0	0	0	0	0
KNYR	HY01	100	100	98	100	100	100	61	61	-1	100	-1	-1	-1	-1	-1	-1	-1	-1	-1	100	100	100	100	98
KNYR	HY02	99	100	98	101	69	101	69	69	75	100	99	102	102	62	102	103	96	93	72	61	89	78	73	101
KNYR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	102	101	101	100
KNYR	HY04	100	100	98	102	73	95	72	68	82	101	101	98	101	63	103	-1	-1	-1	-1	-1	102	59	58	62
LPIA	HY01	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	10	10	10	10	10	10	10
LPIA	HY02	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	10	10	10	10	10	10	10
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	21	21
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	31	31	31	31	47
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	50
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	50
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
TMGR	HY01	34	33	33	34	50	85	50	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY02	44	48	45	45	52	88	52	48	54	88	89	89	88	43	86	88	84	83	56	43	80	67	63	87
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	85	33	32	33	33	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	86	33	83	83	83
UJLI	HY01	96	98	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	86	98	92	92	92
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	94	94	95	93	-1
UPIA	HY01	6	5	5	6	5	5	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
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		818	703	588	603	566	692	493	363	326	504	403	404	406	282	505	408	293	291	241	219	363	406	398	647
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
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 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		
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	38	82	143	212	292	337	344	383	369	505	465	514	479	431	415	387	308	254	186	139	73	38	7	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	4	4	4	3	2	4	3	5	4	3	3	4	4	3	2	3	5	3	3	3	5	4	4	3	3	5	4	4	3	2	3	4	4	4	5	4	3	3	6	4	4	5	5	5	4	2	4	3	
PCUF	CUFK	3	4	4	3	4	3	2	4	3	3	3	2	3	5	2	4	5	3	4	3	3	5	4	3	3	5	2	4	4	1	3	3	4	3	4	4	4	2	5	4	3	3	3	3	3	3	2	3	
Total Co-Gen		7	8	8	6	6	7	5	9	7	6	6	6	7	8	4	7	10	6	7	6	8	9	8	6	6	10	6	8	7	3	6	7	8	7	9	8	7	5	11	8	7	8	8	8	7	5	6	6	
Total Gen		16011	15761	15344	14973	14673	14452	14171	14026	13853	13647	13472	13476	13389	13302	13134	12849	12769	13407	13843	14188	14448	14821	14987	15248	15120	14980	15079	15456	15746	15937	16026	16168	16197	16185	16107	15744	15510	15480	15695	16467	16401	16338	16285	16291	16164	16115	15996	15724	
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	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-28	-28	-31	-30	-27	-30	-28	-30	
TIE-PLTG		96	126	142	73	-1	-44	-22	9	-15	22	76	22	9	9	145	37	-26	6	-9	5	-22	-9	24	31	39	28	13	54	-12	16	11	9	-32	16	77	14	-42	38	-61	41	69	12	29	6	-5	9	27	63	
Interconnection		67	96	112	44	-31	-73	-52	-20	-44	-7	47	-6	-20	-20	116	8	-54	-22	-38	-25	-51	-38	-5	3	10	-1	-16	25	-41	-13	-18	-20	-61	-13	48	-15	-71	8	-90	11	41	-16	-1	-24	-32	-21	-2	32	
System Total		15950	15671	15238	14935	14710	14531	14229	14052	13903	13660	13431	13489	13416	13329	13025	12848	12830	13436	13888	14220	14506	14866	14999	15251	15116	14987	15101	15438	15794	15957	16051	16194	16264	16204	16065	15765	15587	15478	15791	16463	16367	16361	16293	16323	16204	16144	16006	15699	
SRev ST-Coal		120	107	134	180	195	250	285	261	363	392	471	502	520	523	584	701	649	652	513	472	466	349	179	209	179	303	355	167	134	131	130	96	341	229	156	94	122	111	98	144	115	120	114	98	180	241	227	310	
SRev CCGT-Gas		630	562	837	719	844	772	774	818	800	425	423	333	407	718	1145	1105	1199	599	403	402	370	358	364	362	369	378	357	399	338	370	364	366	337	385	379	582	701	569	339	407	440	345	365	338	326	296	339	402	
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	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		439	439	626	626	626	626	713	800	901	800	901	901	901	901	714	815	1002	1002	1002	1002	1002	815	815	526	526	901	714	440	440	252	252	252	0	0	0	126	313	627	1002	313	126	439	439	439	626	626	626	626	
Hydro		231	346	274	259	296	170	282	197	133	56	56	54	52	176	140	136	64	66	116	138	94	228	236	277	405	183	224	489	406	422	454	468	597	678	793	738	495	425	170	462	700	538	427	363	232	201	285	285	
S.Reserve Total		1420	1454	1871	1784	1961	1818	2054	2076	2197	1673	1851	1790	1880	2318	2583	2757	2914	2319	2034	2014	1932	1750	1594	1374	1479	1781	1656	1497	1320	1187	1200	1182	1275	1292	1328	1540	1631	1732	1609	1326	1381	1442	1345	1238	1364	1364	1477	1623	