

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,236 MW
Distillate	0 MW
Total TNB	2,236 MW
Total IPP	17,053 MW
Total Co-Gen	0 MW
Total System	22,852 MW

Generation Mix

Type	MWh	Percentage
Hydro	21,712	5.79 %
Gas	48,020	12.81 %
Total TNB	69,732	18.60 %
ST-Coal	224,561	59.89 %
LSS	3,686	0.98 %
Gas	76,761	20.47 %
Total IPP	305,008	81.34 %
Co-Gen	208	0.06 %
Total Co-Gen	208	0.06 %
Total Generation	374,948	99.99 %
PLTG	676	0.18 %
HVDC	-697	-0.19 %
Interconnection	-21	-0.01 %
Net Energy	374,969	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	19,174 MW
TNB Generation	3,854 MW
IPP Generation	14,004 MW
Spinning Reserve	1,310 MW
Maximum Demand	17,836 MW
Net Energy	374,969 MWH
Load Factor	87.60 %

Fuel Cost

Total Cost:	48,173,023.09 RM
Cost per Unit	12.84 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	800
Hydro	261
Syncon	411
Thermal	164
Total	1,636

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	57
TJGS	98
Total TNB	155
CBPS	56
KLPP	76
NPRI	137
PGLA	106
PLPS	79
YPKA	43
Total IPP	498
Total Gas	653
Total Gas Required	653

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	15506	14622	14174	13740	13384	13149	13165	13350	13692	15331	16080	16582	16730	16600	17204	17757	17822	17447	16036	15737	16986	16900	16492	16190

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, April 6, 2021 11:37:30 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	692	693	692	692	689	693	692	599	567	502	500	502	502	551	601	607	665	688	694	691	691	691	692	691	689	691	691	692	692	691	692	694	692	692	694	692	692	694	692	692	691	691								
JMAH	U002	697	695	696	696	696	696	698	601	551	503	503	503	505	503	608	624	666	695	693	694	694	696	696	695	692	704	691	696	697	696	696	695	696	694	695	692	694	696	696	697	699	689	697	691	697	693	688			
JMHE	U001	977	983	983	909	903	852	847	854	850	853	852	851	851	852	847	846	855	850	985	981	976	980	979	980	978	981	979	979	980	975	978	983	981	981	982	983	978	980	981	980	981	981	976	981	978	980	978	979		
JMHE	U002	978	981	983	904	854	850	848	852	850	853	851	852	853	850	846	848	855	849	984	981	976	980	979	981	979	983	979	977	980	975	980	982	980	981	981	983	978	977	982	981	979	981	976	982	981	981	978	982		
JMJG	U001	668	668	671	668	677	656	673	673	671	675	642	636	596	646	666	673	671	672	667	672	672	669	676	668	678	667	671	673	671	673	670	675	670	674	673	666	671	669	669	672	671	679	667	666	679	673	672	678		
JMJG	U002	674	675	667	675	668	675	673	670	674	674	644	641	598	647	671	680	668	674	674	671	671	666	672	676	672	666	673	671	672	665	674	671	672	662	684	666	671	672	679	668	672	671	678	665	665	674	666	663		
JMJG	U003	671	673	671	675	673	668	669	672	674	671	643	645	590	650	665	677	670	672	676	670	668	673	670	669	678	666	669	660	672	672	666	674	671	664	676	673	679	666	677	663	674	664	682	662	668	678	673			
JMJG	U004	973	973	975	937	876	854	856	854	856	857	856	858	857	854	857	857	864	920	979	947	968	977	973	972	976	976	975	975	976	975	976	977	977	976	973	974	976	976	975	977	978	977	977	976	978	976	978	976		
JMJG	U005	796	801	801	798	796	799	799	801	801	799	799	800	801	800	796	805	799	799	804	797	796	803	799	800	800	801	799	799	797	799	800	796	796	801	798	806	801	799	797	800	799	800	800	799	798	799	797	797		
PKLG	U003	280	279	279	278	278	277	273	278	279	281	279	277	280	278	278	280	276	274	279	278	277	279	277	279	278	280	276	276	276	276	278	276	278	281	279	278	277	277	278	277	277	278	277	278	276	276	280			
PKLG	U004	142	143	132	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	U006	28	33	50	17	0	0	0	0	0	0	0	56	94	113	114	113	0	0	0	0	0	0	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	U001	690	690	691	691	691	691	690	689	690	689	690	690	690	690	690	687	689	690	691	690	690	689	690	689	691	691	690	690	691	690	690	690	690	690	690	690	689	690	691	691	691	690	690	691	691	690	690			
TBIN	U002	691	693	689	694	691	691	694	691	691	689	691	689	690	692	691	691	690	689	690	694	692	694	688	692	692	691	693	691	690	687	692	690	691	691	691	692	693	692	691	689	691	691	691	692	690	691	690	690		
TBIN	U003	602	603	600	604	601	603	604	605	601	605	604	603	603	602	601	602	603	603	633	632	632	633	632	632	633	632	635	634	634	634	633	632	631	633	634	633	631	633	635	633	634	636	634	635	634	633	637			
Total ST-Coal		9559	9583	9580	9238	9093	9005	9016	8839	8755	8651	8555	8603	8513	8731	8929	8991	8960	9017	9357	9405	9358	9381	9404	9448	9501	9552	9546	9552	9571	9571	9587	9594	9596	9599	9628	9624	9631	9659	9648	9704	9703	9726	9692	9706	9687	9702	9690	9691		
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				
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				
CBPS	BLK2	352	359	223	372	377	376	378	381	377	377	375	367	379	382	378	368	378	378	379	379	370	378	376	376	364	371	373	373	373	373	373	374	374	373	371	362	379	376	379	376	372	376	379	376	379	373	378			
GLGR	GT01	99	103	101	101	101	102	102	102	101	101	101	100	101	101	101	99	102	102	101	100	100	101	100	100	101	101	100	101	101	100	99	100	100	101	100	100	101	100	101	101	102	100	101	100	100	101	101			
GLGR	GT02	100	101	100	100	100	100	100	100	101	100	100	100	100	101	101	101	101	101	101	101	100	101	100	101	101	100	101	101	100	100	100	100	101	101	100	100	101	101	101	101	101	101	101	101	101	101	100			
GLGR	ST1C	90	91	91	91	91	91	91	91	91	91	91	91	91	91	91	90	91	90	91	90	91	90	91	91	90	91	90	90	90	90	90	91	90	91	91	91	91	91	91	91	91	91	91	91	90	90				
KLPP	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	0	0	18	69	130	103	131	135	134	136	136	117	115	110	115	123	123	140	130	112	114	112	113
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	69	152	152	154	153	152	152	111	116	156	159	138	159	151	153	152	153	152	132	117	116	119	155	156	155	156	123	124	120	122		
KLPP	GT15	131	134	135	131	131	130	135	135	130	134	131	129	135	138	132	135	136	139	139	159	155	155	155	155	154	128	133	160	166	154	163	158	158	158	158	158	141	134	127	134	161	161	162	162	134	137	136	133		
KLPP	ST17	70	46	47	46	48	48	49	49	46	46	47	47	48	48	47	50	47	50	72	135	129	129	130	130	131	115	118	133	182	192	192	196	196	196	202	200	192	179	180	196	196	198	196	184	184	184	184			
NPRI	BLK1	502	517	517	515	514	395	309	310	309	310	311	311	310	311	309	311	311	505	504	505	506	506	506	506	506	506	505	505	506	500	506	505	505	502	497	486	511	506	517	507	506	505	510	506	506	501	505			
NPRI	BLK2	461	475	299	300	297	299	301	306	298	302	296	286	301	304	300	281	310	485	482	475	464	476	476	461	476	476	475	474	472	476	476	475	470	469	465	484	477	478	477	477	482	478	478	473	477					
PCGP	PGRG	261	263	262	263	261	260	266	269	260	266	260	264	265	262	261	261	271	289	269	261	261	261	262	261	262	261	262	260	263	262	352	303	400	402	260	261	261	262	260	266	261	260	260	260	263					
PGLA	GT11	183	169	170	168	168	169	170	170	168	170	167	164	170	171	169	163	169	171	170	218	215	217	218	217	212	217	217	217	217	217	215	217	217	217	216	214	210	172	169	176	218	218	217	218	219	215	169			
PGLA	GT12	187	172	173	172	172	172	173	174	171	174	170	168	174	175	172	167	172	174	174	222	218	221	221	221	215	221	221	220	221	219	219	220	221	221	219	219	214	174	173	179	221	221	221	222	221	220	172			
PGLA	ST10	216	206	206	205	205	205	206	205	205	205	203	201	206	207	206																																			

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	
BSIA	HY02	23	23	23	23	23	23	23	23	23	23	22	23	11	11	10	11	23	23	23	23	23	23	23	23	23
BSIA	HY03	23	23	23	23	23	23	23	23	23	23	22	23	11	0	0	0	24	23	23	23	23	23	23	23	23
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	9
CEND	HY02	9	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	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	9
CEND	HY04	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	7	8	8	8	7	7	8	8	8	8
HTRG	HY01	62	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	64	63	63	63	-1	-1	-1	-1	125
HTRG	HY02	63	63	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	64	63	63	63	63	63	63	124	124
KNRG	HY01	36	36	36	36	36	36	36	36	36	36	36	36	23	0	0	0	36	36	36	36	36	36	36	36	36
KNRG	HY02	37	37	37	37	37	37	37	37	37	37	37	37	37	22	0	0	0	38	37	37	37	37	37	37	37
KNRG	HY03	36	36	36	36	36	36	36	36	36	36	36	36	36	22	21	22	36	36	36	36	36	36	36	36	36
KNYR	HY01	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNYR	HY02	101	101	101	101	101	101	101	101	101	101	101	101	101	0	98	96	103	101	101	99	102	102	102	97	100
KNYR	HY03	101	101	101	101	101	101	101	101	101	101	100	101	102	101	97	96	103	100	100	99	102	102	102	97	99
KNYR	HY04	101	102	102	101	102	102	102	102	102	101	101	102	103	102	101	97	104	101	101	100	103	103	103	98	100
LPIA	HY01	14	14	15	15	15	15	15	15	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	15
LPIA	HY02	14	15	15	15	15	15	15	16	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	15
MNOR	HY01	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	4	4	3	3
PGAU	HY01	-1	-1	16	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1
PGAU	HY02	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-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	0
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	6	0	0	31	31	31
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	30	30	30	30	30	30
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	17	0	0	17
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	25	25	17	0	0	17
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	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	0
TMGR	HY01	41	68	68	85	73	59	58	-1	-1	-1	-1	-1	-1	-1	-1	87	42	42	86	86	86	85	82	31	32
TMGR	HY02	87	88	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	90	90	89	86	35	35
TMGR	HY03	57	60	60	60	60	30	30	30	30	30	28	30	30	30	30	83	85	85	85	81	30	30	85	85	85
TMGR	HY04	38	68	68	86	74	61	74	63	42	56	41	39	66	84	59	38	41	85	70	41	41	41	49	40	41
UJLI	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	-1
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6
UPIA	HY02	5	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		998	897	851	801	757	700	712	643	622	637	621	614	647	591	396	463	464	762	692	685	866	1022	1038	1095	1000
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	0	0	1	2	9	12	15	19	23	24	27	27
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	12	17	21	25	27	30	28	25
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	10	13	21	22	25	28	21	29
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	12	24	31	35	38	44	42	48
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	12	15	32	35	32	33	40	41
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	8	9	13	19	14	24	30	30
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	14	22	27	33	39	43	45	50
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	11	15	24	17	33	44	34	40
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	13	20	25	31	35	40	29	46
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	15	19	23	30	8	30	12

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		
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	13	20	27	31	25	50	50	50	44	36	34	45	50	50	25	32	44	15	10	9	7	1	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	4	11	19	28	36	44	41	46	52	52	52	52	52	50	52	52	43	44	38	24	6	2	2	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	2	5	12	7	24	30	35	28	34	32	32	42	40	38	13	7	27	9	25	20	3	5	2	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	3	10	14	19	22	23	19	30	29	30	30	31	29	31	26	26	15	16	8	6	4	1	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	2	32	94	172	242	327	392	454	448	500	507	520	497	503	463	403	443	341	340	286	203	118	73	15	2	0	0	0	0	0	0	0	0	0
PCUF	CUFG	5	5	5	5	5	6	4	4	6	5	5	5	5	6	3	6	5	6	5	4	3	5	5	5	5	6	5	7	6	6	4	6	6	6	5	5	6	7	6	5	6	5	5	6	5	6			
PCUF	CUFK	3	4	4	2	4	5	3	4	4	4	4	3	2	3	4	3	4	4	2	4	3	0	4	5	2	3	3	4	2	3	4	2	3	4	4	5	3	5	5	2	3	5	4	2	6				
Total Co-Gen		8	9	9	7	9	11	7	8	10	9	9	8	7	8	10	6	10	9	8	9	7	3	9	7	8	8	10	8	11	8	9	6	9	10	10	8	9	10	12	9	10	11	7	8	11	10	7	12	
Total Gen		15569	14963	14598	14347	14159	13901	13730	13499	13361	13288	13154	13149	13164	13347	13319	13395	13576	14600	15274	15728	16061	16405	16576	16786	16745	16526	16577	16963	17205	17734	17784	17864	17825	17801	17483	16711	16070	15672	15757	16470	16975	16968	16944	16750	16494	16372	16208	15906	
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	-30	-30	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-28	-29	-31	-29	-31	-29	-28	-29	-28	-29	-31			
TIE-PLTG		96	29	9	42	18	10	23	12	10	-9	38	66	32	10	2	55	-83	-37	-24	-12	14	8	27	-25	48	1	10	35	34	52	60	66	40	36	74	57	70	8	57	68	26	17	81	48	39	25	55	31	
Interconnection		67	0	-20	13	-11	-20	-6	-16	-19	-38	9	37	3	-18	-27	26	-112	-66	-53	-41	-15	-21	-2	-54	19	-28	19	6	5	24	31	36	11	7	44	27	42	-20	28	37	-3	-14	52	20	10	-3	26	1	
System Total		15506	14967	14622	14338	14174	13925	13740	13519	13384	13330	13149	13116	13165	13369	13350	13373	13692	14670	15331	15773	16080	16430	16582	16844	16730	16558	16600	16961	17204	17714	17757	17836	17822	17802	17447	16692	16036	15700	15737	16441	16986	16990	16900	16738	16492	16383	16190	15913	
SRev ST-Coal		183	159	172	394	388	404	387	515	513	510	601	624	659	575	550	514	460	397	205	157	164	151	158	164	181	140	196	190	191	191	175	168	166	163	154	168	161	163	174	148	149	126	160	146	165	150	162	161	
SRev CCGT-Gas		1279	1391	1707	1564	1565	1680	1805	1791	1826	1809	1831	1876	1803	1783	1816	1867	1690	1365	1103	976	934	973	909	865	917	946	934	973	859	602	483	507	392	392	540	872	1201	1551	1444	1273	825	831	812	1088	1208	1218	1148	1168	
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	0		
Syncon		489	615	590	590	741	741	741	828	828	828	828	828	828	828	828	828	828	741	741	590	590	489	489	489	489	615	615	615	615	302	302	302	302	302	302	615	551	677	828	489	302	302	302	302	302	489	489	489	
Hydro		302	177	248	211	104	161	149	131	152	137	153	160	127	183	150	183	182	99	169	327	233	228	212	205	300	322	292	251	223	221	397	341	398	375	320	208	372	198	130	54	182	207	212	145	265	118	142	210	
S.Reserve Total		2253	2342	2717	2759	2798	2986	3082	3265	3319	3284	3413	3488	3417	3369	3344	3392	3160	2602	2218	2050	1921	1841	1768	1723	1887	2023	2037	2029	1888	1316	1357	1318	1258	1232	1316	1863	2285	2589	2576	1964	1458	1466	1486	1681	1940	1975	1941	2028	