

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,272 MW
Distillate	0 MW
Total TNB	2,272 MW
Total IPP	15,828 MW
Total Co-Gen	0 MW
Total System	20,923 MW

Generation Mix

Type	MWh	Percentage
Hydro	20,352	5.89 %
Gas	38,456	11.12 %
Total TNB	58,808	17.01 %
ST-Coal	224,764	65.02 %
LSS	1,771	0.51 %
Gas	59,414	17.19 %
Total IPP	285,949	82.72 %
Co-Gen	211	0.06 %
Total Co-Gen	211	0.06 %
Total Generation	344,968	99.79 %
PLTG	-38	-0.01 %
HVDC	-697	-0.20 %
Interconnection	-735	-0.21 %
Net Energy	345,703	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:	14:30:00 Hour
Total Set On Bus	17,473 MW
TNB Generation	3,498 MW
IPP Generation	12,760 MW
Spinning Reserve	1,206 MW
Maximum Demand	16,317 MW
Net Energy	345,703 MWH
Load Factor	88.28 %

Fuel Cost

Total Cost:	40,775,178.76 RM
Cost per Unit	11.82 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	264
Hydro	481
Syncon	465
Thermal	208
Total	1,418

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Cloudy	27

Gas Usage

Station	(mmscfd)
GLGR	51
SRDG	2
TJGS	192
Total TNB	245
CBPS	50
NPRI	159
PLPS	68
SGB3	10
YPKA	25
Total IPP	312
Total Gas	557

Total Gas Required	557
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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	13464	12991	12570	12176	11992	11986	12062	12416	12958	14423	15313	15882	15835	15580	16127	16252	16219	15753	14999	15534	15795	15418	14903	14510

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, December 1, 2020 9:57:20 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	695	693	694	692	692	692	679	552	552	552	551	553	552	553	655	693	693	692	694	691	693	693	693	692	692	692	692	694	693	691
JMAH	U002	691	693	697	688	695	694	686	570	551	553	553	552	554	553	647	695	695	699	693	699	693	695	693	696	694	694	696	694	693	695
JMHE	U002	951	782	781	776	780	778	781	778	779	780	778	780	781	779	780	988	977	980	982	981	981	981	976	977	980	979	980	976	978	985
JMJG	U001	671	668	671	661	572	548	546	548	545	546	547	546	553	546	547	554	640	670	674	672	668	672	673	665	674	671	671	672	667	673
JMJG	U002	674	672	672	668	574	549	552	545	547	549	549	551	549	551	555	635	676	672	672	668	670	680	671	673	665	678	672	668	675	
JMJG	U003	581	612	650	656	579	556	548	545	548	548	539	545	541	542	541	540	542	563	614	656	672	673	673	668	672	668	673	667	668	677
JMJG	U004	810	754	727	710	709	709	708	710	711	709	710	710	710	710	712	709	709	705	709	711	758	816	876	881	883	920	967	972	973	974
JMJG	U005	774	727	731	733	730	730	730	731	729	733	731	730	731	732	732	731	734	733	731	733	734	782	801	796	795	794	797	797	797	794
PKLG	U003	283	280	283	282	280	282	281	198	152	146	150	150	150	192	253	282	286	286	283	281	283	281	280	280	284	281	279	279	279	280
PKLG	U004	144	146	153	145	146	145	159	146	190	187	200	252	288	286	284	283	283	274	283	275	273	279	273	279	276	279	276	275	278	
PKLG	U005	161	162	158	162	160	165	165	168	215	255	296	338	334	328	363	443	466	466	470	467	466	467	466	467	468	465	466	466	468	
PKLG	U006	446	447	447	449	449	447	449	449	447	447	449	449	448	449	405	358	357	358	358	358	349	371	436	448	449	446	448	445	447	
TBIN	U002	691	693	693	690	691	690	692	695	693	601	603	607	636	692	693	690	691	693	691	691	690	691	692	691	689	695	691	691	691	
TBIN	U003	692	691	692	690	693	697	692	692	693	693	690	689	694	693	690	689	693	692	693	692	691	690	690	693	695	691	693	690	693	
TBIN	U004	978	889	800	783	783	783	781	782	781	781	782	783	782	783	781	783	783	783	981	983	982	982	981	981	983	983	982	982	982	
Total ST-Coal		9242	8909	8849	8785	8533	8465	8449	8109	8136	8079	8128	8234	8296	8395	8432	8686	8824	9208	9326	9552	9566	9630	9762	9840	9886	9890	9897	9926	9975	
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
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
CBPS	BLK2	347	358	366	325	228	224	215	224	224	223	224	219	225	225	225	210	234	292	346	355	360	364	362	355	354	361	352	350	347	
GLGR	GT01	68	68	69	68	69	68	67	68	69	69	68	68	67	68	68	68	68	68	68	68	68	67	69	87	100	100	100	101	101	
GLGR	GT02	68	68	68	68	68	68	69	68	68	68	68	68	68	68	68	68	68	68	68	68	68	67	68	89	101	100	101	102	100	
GLGR	ST1C	72	72	72	72	72	72	71	72	72	72	72	72	72	72	72	71	72	71	72	72	72	72	72	81	91	91	91	91	91	
NPRI	BLK1	496	515	518	511	518	518	503	487	500	512	509	512	511	520	515	495	505	514	506	505	513	513	514	509	514	514	518	515	504	
NPRI	BLK2	497	516	520	511	519	518	503	491	504	519	514	518	515	527	520	480	510	518	512	511	518	518	519	514	511	514	516	518	519	
PCGP	PGRG	575	598	601	594	601	602	582	601	604	607	602	603	598	609	605	582	589	600	594	593	603	603	602	597	594	596	599	601	603	
PLPS	GT12	63	69	70	68	70	70	64	70	70	70	70	70	71	70	65	67	120	116	116	119	119	139	137	149	148	150	149	150		
PLPS	GT13	53	62	62	59	61	61	55	61	61	60	60	61	61	60	60	57	58	108	107	104	109	109	127	125	138	137	139	140		
PLPS	ST18	83	92	93	90	92	92	88	91	91	93	92	92	92	92	89	90	132	133	130	133	133	143	143	149	146	146	146	146		
SGB3	GT31	108	114	114	114	114	114	108	114	114	114	114	114	77	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGB3	ST34	57	58	58	57	57	57	57	57	57	57	57	57	57	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SPGP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	87	173	295	300	589	739	742	740	721	719	359	360	360	361	360		
TJGS	GT1A	131	146	155	155	196	155	143	197	152	149	148	148	149	148	151	136	173	148	149	148	210	233	190	187	206	196	168	211		
TJGS	GT1B	122	136	143	143	183	143	126	184	137	139	138	137	136	134	138	123	159	135	135	141	199	215	176	175	197	183	154	197		
TJGS	ST1C	178	182	195	181	199	193	176	232	181	181	181	178	178	181	193	184	184	174	199	233	219	226	201	234	202	216	244	240		
TJGS	GT2A	156	127	128	128	128	128	128	127	127	127	127	127	127	127	128	128	219	215	215	214	214	215	215	214	215	213	213	213	213	
TJGS	GT2B	152	125	126	126	126	126	125	125	125	125	125	125	122	124	124	125	216	211	211	211	213	210	212	211	211	211	211	210		
TJGS	ST2C	232	199	199	199	199	199	199	199	199	199	199	199	199	199	199	199	247	254	256	256	256	256	256	256	256	256	256	256		
YPKA	GT21	66	66	67	67	67	67	67	67	67	67	67	67	67	67	68	67	67	67	67	67	66	125	125	124	123	125	124	125		
YPKA	ST20	39	39	39	39	39	39	38	39	39	39	39	39	39	39	40	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
Total CCGT-Gas		3563	3610	3663	3575	3606	3514	3385	3573	3461	3491	3474	3477	3467	3457	3439	3356	3638	4045	4365	4512	4699	4853	4781	4760	4483	4538	4451	4557		
SRDG	GT04	0	0	0	0	0	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 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	
BSIA	HY01	20	20	21	20	20	20	11	22	22	21	21	0	0	0																

Daily MW Generation on Wednesday

[illegible]