

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,115 MW
Distillate	0 MW
Total TNB	2,115 MW
Total IPP	18,994 MW
Total Co-Gen	0 MW
Total System	23,644 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,952	4.29 %
Gas	32,573	8.75 %
Total TNB	48,525	13.04 %
ST-Coal	265,379	71.33 %
LSS	2,820	0.76 %
Gas	54,629	14.68 %
Total IPP	322,828	86.77 %
Co-Gen	162	0.04 %
Total Co-Gen	162	0.04 %
Total Generation	371,515	99.86 %
PLTG	165	0.04 %
HVDC	-702	-0.19 %
Interconnection	-537	-0.14 %
Net Energy	372,052	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	18,590 MW
TNB Generation	3,001 MW
IPP Generation	14,499 MW
Spinning Reserve	1,083 MW
Maximum Demand	17,599 MW
Net Energy	372,052 MWH
Load Factor	88.09 %

Fuel Cost

Total Cost:	45,089,091.64 RM
Cost per Unit	12.14 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	266
Hydro	412
Syncon	573
Thermal	252
Total	1,503

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	31
SRDG	4
TJGS	170
Total TNB	205
CBPS	49
NPRI	153
PLPS	61
Total IPP	263
Total Gas	468
Total Gas Required	468

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	15244	14498	13979	13482	13257	12943	13124	13011	13481	15209	16045	16741	16641	16512	17114	17482	17599	17083	15917	16314	16901	16756	16227	16052

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, November 5, 2020 8:36:33 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	693	695	691	649	653	602	551	535	501	552	554	551	497	504	510	695	692	692	693	693	693	692	694	693	692	691	693	692	692	693	692	694	693	693	692	694	693	692	694	695						
JMAH	U002	690	695	694	693	693	655	652	603	553	538	502	555	553	553	500	503	505	649	695	694	695	695	694	694	691	696	692	695	693	689	693	694	694	694	693	693	696	695	694	694	695	693	693	692	694	694		
JMHE	U001	976	981	901	907	900	850	849	853	848	849	778	782	779	780	785	780	778	928	980	977	978	981	978	979	980	981	978	982	981	978	980	982	979	978	981	979	978	981	981	977	978	980	978	977	984	982	978	
JMHE	U002	974	981	901	903	899	851	852	853	853	851	781	782	780	779	781	779	782	961	979	977	979	980	980	980	978	982	980	980	982	978	982	980	977	980	982	979	977	980	983	982	976	980	980	979	980	980	980	
JMJG	U001	670	606	546	545	546	499	500	450	448	447	446	447	486	528	520	513	517	582	669	666	657	666	661	675	672	669	666	667	671	669	667	667	670	667	667	667	668	667	669	668	668	668	667	669	668	667		
JMJG	U002	677	607	551	546	548	509	500	470	450	447	449	447	449	449	447	516	512	563	656	667	677	668	672	670	680	672	676	670	672	665	677	675	675	669	675	669	670	677	671	671	673	670	670	678	668	672	669	672
JMJG	U003	673	609	551	553	556	507	497	463	444	442	447	447	444	442	447	447	523	606	667	674	664	661	669	666	657	671	657	663	666	660	665	662	662	657	660	604	536	545	542	626	679	667	670	672	674	667	657	
JMJG	U004	710	711	711	709	709	708	708	709	710	711	711	712	711	712	711	711	711	719	777	834	892	950	972	963	949	907	908	908	908	908	910	909	909	908	910	907	910	909	908	908	907	906	909	910	907	842	758	
JMJG	U005	732	730	729	733	732	729	732	733	729	731	730	733	729	732	727	732	731	803	808	794	804	797	798	801	801	799	804	798	799	796	801	800	800	801	801	798	804	786	804	798	796	804	797	803	797	796	729	736
PKLG	U003	281	283	285	280	280	282	283	283	284	281	281	286	280	281	280	278	280	280	281	280	283	280	282	283	285	281	281	280	281	282	282	282	282	282	283	280	280	281	285	284	283	281	284	283	283	280	286	283
PKLG	U004	277	276	273	275	276	273	276	273	277	276	279	275	275	273	274	278	277	277	273	273	278	274	274	270	281	272	273	271	265	274	263	265	264	268	268	272	273	273	276	275	275	274	293	276	276	281	277	275
PKLG	U005	468	468	465	466	466	468	464	468	468	467	467	466	466	467	469	468	466	467	467	466	467	466	471	467	461	466	466	467	469	467	468	466	467	467	466	466	467	467	466	468	468	468	468	467	471	468	467	467
PKLG	U006	450	447	449	451	447	447	449	447	450	449	451	446	446	445	445	445	453	450	448	451	449	450	450	453	452	450	449	447	451	448	448	448	451	447	448	451	449	450	452	451	451	449	449	448	448	451	450	448
TBIN	U001	687	686	686	687	688	687	690	688	688	686	686	687	688	688	687	688	688	689	687	686	689	688	688	687	684	688	687	686	687	686	686	687	688	685	689	688	686	688	689	686	687	688	686	686	686	687	685	688
TBIN	U002	685	690	686	690	689	695	686	688	691	690	690	691	690	691	690	691	691	690	690	686	692	690	692	691	691	689	691	685	691	685	691	691	689	691	689	690	691	690	691	684	691	685	692	690	689	690	689	692
TBIN	U003	692	690	689	688	689	693	691	696	695	690	697	691	691	696	692	690	692	689	692	691	692	694	689	691	690	692	689	695	692	691	692	689	692	691	690	691	690	692	692	696	692	689	689	688	690	690	691	690
TBIN	U004	982	983	933	904	902	859	853	852	853	854	807	783	783	784	782	783	782	844	937	981	984	981	982	984	983	982	984	984	979	980	981	983	984	980	982	984	983	983	983	984	983	983	983	983	983	983	983	983
Total ST-Coal		11316	11361	10743	10725	10711	11036	110335	10131	9992	9944	9703	9782	9804	9851	9735	9805	9823	10799	11270	11374	11461	11503	11549	11638	11672	11624	11629	11568	11570	11566	11568	11579	11571	11569	11573	11567	11512	11451	11481	11465	11541	11590	11598	11591	11583	11599	11452	11361
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	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	358	338	251	221	215	224	221	219	221	211	223	222	224	223	215	216	229	361	361	362	362	359	359	359	359	357	357	357	354	354	354	354	354	353	353	355	347	247	240	302	356	357	359	359	354	349	357	356
GLGR	GT01	67	68	69	66	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	GT02	67	68	68	68	82	95	95	96	96	95	96	96	96	95	96	96	95	96	95	96	95	96	95	96	95	109	108	108	107	108	109	108	107	107	106	106	106	107	108	108	109	108	109	109	108	108	108	109
GLGR	ST1C	72	72	72	72	73	38	39	39	39	39	39	39	39	39	40	39	39	39	39	39	45	47	47	46	46	46	47	47	46	46	46	46	46	45	46	46	46	46	46	46	46	46	46	46	46	46	46	
NPRI	BLK1	521	529	530	527	520	531	527	530	530	521	530	530	531	526	517	518	536	525	532	534	529	536	530	530	521	529	527	524	526	529	527	525	526	528	522	511	508	523	531	530	530	529	530	529	523	523	530	529
NPRI	BLK2	506	515	517	512	505	517	512	514	517	506	518	517	516	512	501	505	523	511	518	520	516	523	516	516	506	515	514	510	515	517	515	514	514	514	507	496	491	508	521	515	515	514	516	515	508	508	514	514
PCGP	PGRG	591	598	602	595	587	601	596	601	601	590	602	601	602	597	583	585	610	592	601	608	601	617	602	601	591	601	600	594	617	611	604	601	605	603	603	589	602	599	607	604	604	602	599	611	601	590	603	602
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	0	0	0	0	0	0	0	0	0	0	0	0	
PLPS	GT13	120	124	125	125	120	124	124	123	124	121	125	125	125	122	121	120	129	125	124	128	144	143	139	140	138	112	112	131	137	139	124	140	139	138	110	108	107	109	115	137	128	114	112	112	106	0	0	0
PLPS	ST18	58	58	58	59	59	58	58	58	57	59	58	58	59	60	58	59	59	58	59	59	61	60	60	61	127	134	134	142	143	183	210	213	213	213	197	194	195	195	198	213	201	201	198	158	133	60	58	55
SPGP	BLK1	323																																															

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	HY03	8	8	8	8	8	8	8	9	8	8	8	9	9	9	9	8	9	9	9	9	9	9	9	9
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
KNRG	HY01	21	0	0	0	0	0	0	0	0	0	0	25	25	36	36	36	36	36	36	23	23	36	36	36
KNRG	HY02	21	21	38	38	21	22	21	21	22	21	21	38	38	21	22	38	38	37	37	37	37	37	37	37
KNRG	HY03	21	21	37	37	21	22	21	22	21	22	22	37	37	21	23	37	37	36	36	36	36	36	36	36
KNYR	HY01	60	61	72	65	62	96	61	65	78	62	69	65	81	65	62	61	100	65	98	99	96	99	99	99
KNYR	HY02	97	97	75	60	57	94	57	66	73	58	73	59	83	61	58	62	95	60	95	96	96	97	97	97
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	98	-1	-1	98	53	75	99	99	99	99	99	99
LPIA	HY01	17	17	17	17	17	17	17	17	17	17	17	17	17	17	18	18	20	20	20	20	20	20	20	20
LPIA	HY02	19	19	19	19	19	19	19	19	19	19	19	19	19	19	18	18	18	18	18	18	18	18	18	18
MNOR	HY01	4	4	4	4	4	4	4	4	4	4	4	4	6	6	8	8	8	8	8	8	8	3	3	3
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	80	80	20	20	-1	-1
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	80	20	20	20	21	-1
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	111	20	-1	-1	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	20	19	19	19	20	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	49	49	49	49	48
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	50	50	50	50	50
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	50	50	50	50	50
SYPS	HY01	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	25	25	25	25	25
SYPS	HY02	17	17	17	17	17	17	17	17	17	17	25	25	25	25	25	25	25	25	25	25	25	25	25	25
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	32	32	82	82	82	82	40
TMGR	HY02	44	45	53	48	44	83	46	46	66	44	58	46	67	45	42	43	87	45	87	87	82	85	85	72
TMGR	HY03	31	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	31	80	80	80	39	30	30
TMGR	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	81	81	81	39	0	0
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	96	102	97	97	-1	-1	-1
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	5	101	99	100	100	94	-1
UPIA	HY01	5	5	5	6	5	5	5	5	6	6	6	5	6	5	5	5	5	5	6	6	5	5	6	6
UPIA	HY02	6	6	6	6	6	6	6	7	7	7	7	6	7	6	6	6	6	6	6	7	6	6	6	6
Total Hydro		439	366	407	364	309	421	310	324	368	312	348	327	388	489	482	345	441	457	521	626	911	1108	1361	1168
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	2	5	4	8	8	12	12	18	24	16	24	25
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	13	16	25	25	29	21	12	29	25
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	6	13	18	22	31	35	33	39	15	47	31
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	9	16	16	22	29	21	36	34	33	45	39
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	5	8	11	14	12	9	8	25	18	19	16
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	7	13	20	25	23	22	30	40	41	38	40
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	8	17	24	30	31	28	45	35	46	45	49
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	5	17	21	27	29	25	19	17	15	10	32
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	3	6	12	11	22	30	19	11	30	30	30
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	5	7	10	15	21	25	30	36	37	44	39
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	5	20	28	39	43	21	44	47	35	26	54
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	5	11	9	21	16	27	39	40	24	28	22
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	25	69	143	190	250	294	280	350	369	322	385	402
PCUF	CUFG	3	4	5	3	3	3	3	4	5	3	3	4	4	3	4	3	3	5	4	3	3	4	4	3
PCUF	CUFK	1	2	5	3	3	2	3	4	5	3	4	3	3	4	3	3	4	3	3	3	3	3	3	2
Total Co-Gen		4	6	10	6	6	5	6	8	10	6	7	7	7	8	6	7	7	8	7	8	7	6	7	6
Total Gen		15338	14904	14476	14228	14038	13735	13524	13344	13256	13101	12946	13008	13089	13228	13037	13005	13412	14514	15156	15587	15999	16347	16736	16824

Daily MW Generation on Wednesday

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