

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,219 MW
Distillate	0 MW
Total TNB	2,219 MW
Total IPP	18,404 MW
Total Co-Gen	0 MW
Total System	22,977 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,237	4.78 %
Gas	19,505	5.74 %
Total TNB	35,742	10.51 %
ST-Coal	217,877	64.09 %
LSS	1,902	0.56 %
Gas	82,356	24.22 %
Total IPP	302,135	88.87 %
Co-Gen	1,307	0.38 %
Total Co-Gen	1,307	0.38 %
Total Generation	339,184	99.77 %
PLTG	-100	-0.03 %
HVDC	-695	-0.20 %
Interconnection	-795	-0.23 %
Net Energy	339,979	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:	14:30:00 Hour
Total Set On Bus	16,932 MW
TNB Generation	1,460 MW
IPP Generation	14,021 MW
Spinning Reserve	1,397 MW
Maximum Demand	15,600 MW
Net Energy	339,979 MWH
Load Factor	90.81 %

Fuel Cost

Total Cost:	53,065,386.84 RM
Cost per Unit	15.64 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	273
Hydro	289
Syncon	591
Thermal	250
Total	1,403

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	110
Total TNB	139
CBPS	55
KLPP	82
NPRI	81
PGLA	113
PLPS	74
SKSP	4
Total IPP	410
Total Gas	549

Total Gas Required 549

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	14194	13347	13026	12664	12295	12184	12191	12335	12848	14345	14980	15331	15284	15093	15438	15521	15555	15117	14395	14546	15228	14896	14564	14324

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, October 6, 2021 10:39:53 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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	694	694	659	692	694	694	692	692	631	601	603	603	601	683	686	642	696	691	695	692	694	693	694	692	687	601	551	657	651	693	679	652	692	694	650	550	534	565	684	695	698	692	691	693	691	694	691	692							
JMAH	U002	696	694	656	696	696	698	693	695	692	607	604	604	605	682	692	644	695	694	695	694	698	695	694	694	692	603	556	655	654	695	680	655	691	697	654	555	531	579	692	698	701	694	699	700	701	696	694	695							
JMHE	U001	978	977	849	777	784	780	782	781	777	779	780	780	779	774	778	779	801	877	985	976	981	979	981	980	984	980	981	982	983	980	983	980	982	981	980	981	982	978	978	983	988	981	980	982	980	978	982	945							
JMHE	U002	981	977	850	781	783	780	780	780	777	779	781	776	780	775	776	782	816	893	983	977	982	979	979	978	984	976	981	981	982	982	982	980	980	980	981	982	979	978	981	984	981	978	979	980	978	982	980								
JMJG	U001	676	663	671	666	668	665	672	666	668	668	601	593	595	595	620	640	649	667	671	672	669	673	674	671	672	677	672	672	672	662	666	669	670	663	667	667	643	673	673	669	673	675	673	673	673	673	673								
JMJG	U003	667	667	666	671	670	662	667	669	667	667	594	596	595	596	629	634	634	672	671	667	668	671	663	664	673	667	657	657	667	665	666	666	667	669	666	662	666	668	666	665	630	593	598	594	587	632	676	664							
JMJG	U004	985	986	957	870	807	787	788	787	787	788	789	788	787	789	787	787	796	876	961	976	972	977	977	975	978	976	974	977	976	974	978	975	980	978	978	976	977	976	978	972	975	977	977	973	977	955	906	906							
JMJG	U005	886	884	846	801	796	797	800	797	798	797	799	799	799	796	799	801	817	868	890	887	890	888	886	888	890	887	890	888	889	887	889	884	887	886	889	892	892	892	888	891	892	887	894	887	890	890	891	887							
PKLG	U005	150	156	152	149	152	151	155	151	149	155	215	216	247	287	311	405	463	477	479	467	456	466	468	468	470	469	476	479	476	477	477	473	472	479	479	418	323	279	320	382	386	386	336	270	269	269	275	269							
PKLG	U006	446	448	446	446	447	448	448	446	446	448	449	448	449	448	449	448	446	445	452	450	453	452	450	449	446	449	445	442	446	452	448	449	449	448	446	448	448	449	448	450	450	450	450	450	449	448	448								
TBIN	U001	605	495	542	580	477	398	402	350	302	302	301	300	302	348	376	476	689	689	687	690	689	681	658	596	548	549	603	628	648	649	650	599	526	448	448	427	471	574	649	651	690	690	628	629	630	629	630								
TBIN	U002	606	550	521	583	484	449	446	383	300	303	302	302	301	305	357	369	518	695	694	686	692	692	691	690	671	599	552	551	608	632	652	651	650	600	516	451	438	466	576	652	653	692	692	630	633	632	632								
TBIN	U004	983	983	919	854	857	854	853	853	856	853	851	853	853	852	853	853	855	867	959	983	984	980	982	980	981	982	983	983	983	982	980	983	983	981	985	981	982	982	983	983	984	982	981	985	981	981	909	904							
Total ST-Coal		9353	9174	8734	8566	8315	8163	8178	8050	7850	7747	7670	7659	7692	7887	8093	8161	8664	9416	9818	9819	9827	9832	9823	9822	9788	9456	9246	9478	9590	9720	9738	9664	9752	9666	9419	9008	8852	8950	9409	9672	9665	9674	9639	9446	9441	9457	9388	9325							
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	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	353	360	359	350	364	355	356	360	364	362	363	348	363	360	359	355	364	364	360	360	357								
EMPP	BLK3	0	0	0	250	525	525	525	525	511	511	511	516	517	205	209	208	207	208	209	207	207	208	335	336	340	575	767	770	767	767	767	764	766	765	764	766	765	766	768	767	720	570	375	375	307	319	308	308							
GLGR	GT01	96	95	96	95	96	96	95	95	94	95	95	95	95	94	94	96	94	95	96	95	95	95	95	96	95	95	97	96	95	96	97	97	95	95	95	97	95	95	97	98	96	96	96	98	96	97	97								
GLGR	ST1C	40	41	40	40	40	41	42	40	40	41	41	40	40	40	41	41	40	40	40	40	41	41	41	41	40	40	41	41	41	41	41	41	42	41	41	41	41	41	41	41	40	41	40	40	40	41	40	40							
KLPP	GT13	101	104	104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	138	137	127	103	108	138	122	131	104	108	109	110	109	107	107	107	124	131	130	131	131	134	0	0	0			
KLPP	GT14	131	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	153	153	153	153	156	136	121	130	158	147	146	142	145	137	139	114	115	114	140	126	156	156	156	156	122	123	157	157
KLPP	GT15	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	146	140	140	140	140	140	140	140	140	140	110	110	110	147	147	147	147	147	147	0	0						
KLPP	ST17	192	171	138	92	70	70	67	68	67	68	68	68	68	67	68	67	67	67	67	149	144	149	209	212	206	198	199	213	205	210	203	205	203	204	197	197	197	197	203	206	211	211	210	210	211	182	139	69	69						
NPRI	BLK1	503	506	515	514	512	512	506	510	499	505	511	511	512	504	505	516	507	512	514	502	514	515	513	515	511	494	511	507	511	509	503	514	506	507	515	511	515	514	496	514	509	505	506	514	512	514	518	513							
PCGP	PGRG	587	593	605	603	602	601	592	600	582	591	601	597	600	588	590	604	592	602	604	589	602	602	601	601	596	576	599	594	597	595	585	604	591	595	603	604	602	604	579	603	595	596	593	603	603	600	607	603							
PGLA	GT11	213	215	218	217	217	218	215	217	212	214	217	217	218	214	216	219	214	218	217	184	215	215	214	213	182	210	216	215	214	211	217	214	214	217	218	217	218	212	217	215	216	215	217	218	217	220	218								
PGLA	GT12	218	218	222	221	220	222	220	216	218	221	221	221	221	219	223	218	221	223	189	219	219	220	185	214	219	220	218	220	218	221	218	221	218	221	222	218	221	222	216	221	219	222	219	222	221	223	223	222							
PGLA	ST10	233	236	237	236	232	236	235	235	235	235	236	236	235	236	235	236	236	237	236	222	234	234	233	235	210	236	237	234	234	238	238	235	236	237	239	237	239	237	238	235	237	232	235	235	237	236	237	236							
PLPS	GT11	106	108	110	110	110	111	126	127	128	128	129	128	129	128	128	128	129	127	126	122	139	142	140	115	129	108	122	116	115	113	112	117	114	113	117	115	114	119	113	127	114	114	113	118	117	116	116	116							
PLPS	GT12	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	103	104	107	107	106	107	0	0	0	0	0	0	0	0	0																																								

Daily MW Generation on Thursday

		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																								
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	-1																							
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	0																							
KNRG	HY02		22	22	37	24	37	37	37	37	37	37	37	37	36	36	36	36	23	23	24	23	22	22	23	23	24																							
KNYR	HY01		95	95	95	95	96	96	95	95	95	95	95	95	95	95	53	95	95	95	95	95	95	95	95	95	96																							
KNYR	HY02		97	97	97	97	57	97	97	97	97	97	97	97	97	97	55	96	97	97	97	96	97	96	96	97	97																							
KNYR	HY03		97	97	97	97	56	97	97	97	97	97	97	97	97	96	97	96	95	96	95	96	95	96	97	97	93																							
KNYR	HY04		98	98	98	98	98	98	98	98	98	98	98	98	98	98	55	96	98	97	96	97	96	96	96	98	98																							
LPIA	HY01		25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25																							
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	3																							
PGAU	HY01		0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	19	-1	-1	-1	-1	19	-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	0	0	0	0	0	30	30																							
SIHY	HY02		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30																							
SIHY	HY03		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30																							
SYPS	HY01		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17																							
SYPS	HY02		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	17	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	17	17	17																							
SYPS	HY04		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17																							
TMGR	HY01		-1	-1	-1	-1	-1	-1	-1	-1	-1	83	-1	-1	-1	34	43	41	43	58	43	44	42	38	-1	-1	-1	34																						
TMGR	HY02		44	45	47	47	44	44	42	40	44	43	45	43	41	44	44	46	44	44	41	46	66	45	46	45	41	50																						
TMGR	HY03		39	-1	-1	-1	-1	-1	-1	-1	-1	83	31	32	-1	-1	32	30	32	53	40	42	41	-1	-1	-1	-1	32																						
UJLI	HY01		-1	-1	-1	-1	-1	-1	-1	-1	-1	84	-1	-1	-1	-1	85	91	-1	-1	91	89	-1	-1	-1	-1	-1	-1																						
UJLI	HY02		-1	-1	-1	-1	-1	-1	-1	-1	-1	86	-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	6	6	6	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	5	5																						
Total Hydro			574	535	563	540	458	561	550	548	546	552	549	551	550	961	568	570	536	571	671	768	863	931	817	849	673	635	585	578	598	645	635	653	728	730	646	693	629	666	505	825	799	805	835	883	842	827	896	790
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	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	1	3	4	6	7	9	7	11	10	12	16	14	14	19	16	12	11	12	7	6	3	3	1	1	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	2	14	8	10	12	18	20	27	23	32	28	25	21	23	18	15	11	9	8	5	4	2	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	4	8	6	8	12	13	16	20	25	26	26	28	21	19	22	11	11	8	7	3	2	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	2	5	9	10	12	13	16	24	25	14	21	26	32	10	12	12	16	17	11	11	4	2	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	1	2	1	3	5	6	9	14	17	17	18	21	24	27	30	21	13	9	6	6	4	2	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	1	3	4	5	10	12	10	12	15	16	16	16	10	7	4	4	3	2	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	1	4	6	9	10	2	4	8	16	18	18	21	20	22	18	22	21	14	10	5	4	1	0	0	0	0	0	0	0	0	0	0	0	
JLSL	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	4	6	12	23	18	20	15	17	23	16	17	18	17	17	14	9	8	5	2	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	1	3	7	8	10	15	17	13	45	18	24	25	20	34	19	26	14	13	15	10	5	3	2	1	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	2	5	6	10	21	29	20	30	30	25	1	5	7	11	16	9	8	5	6	4	2	1	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	1	3	3	4	6	9	8	10	4	11	12	14	14	14	14	14	14	16	14	10	6	5	1	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	2	5	8	16	22	28	37	28	29	32	40	32	49	27	26	27	11	10	13	16	9	3	1	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	2	4	8	10	28	31	22	26	35	24	15	14	2	3	7	8	9	18	10	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0	
STLS	LSS1		0	0	0	0	0	0	0	0	0	0																																						

Daily MW Generation on Thursday

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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