

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,217 MW
Distillate	0 MW
Total TNB	2,217 MW
Total IPP	17,714 MW
Total Co-Gen	0 MW
Total System	22,285 MW

Generation Mix

Type	MWh	Percentage
Hydro	20,879	6.18 %
Gas	19,664	5.82 %
Total TNB	40,543	12.00 %
ST-Coal	220,101	65.14 %
LSS	2,957	0.88 %
Gas	72,904	21.58 %
Total IPP	295,962	87.59 %
Co-Gen	1,304	0.39 %
Total Co-Gen	1,304	0.39 %
Total Generation	337,809	99.98 %
PLTG	629	0.19 %
HVDC	-699	-0.21 %
Interconnection	-70	-0.02 %
Net Energy	337,879	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:	16:30:00 Hour
Total Set On Bus	17,096 MW
TNB Generation	2,167 MW
IPP Generation	13,805 MW
Spinning Reserve	1,071 MW
Maximum Demand	15,994 MW
Net Energy	337,879 MWH
Load Factor	88.02 %

Fuel Cost

Total Cost:	52,825,947.56 RM
Cost per Unit	15.63 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	204
Hydro	425
Syncon	379
Thermal	229
Total	1,237

Time Weather Temperature

Afternoon	Hot	31
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	30
TJGS	110
Total TNB	140
CBPS	55
KLPP	69
NPRI	81
PGLA	98
PLPS	79
SKSP	36
Total IPP	417
Total Gas	556

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Total Gas Required	556
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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	13556	12883	12475	12021	11729	11553	11604	11775	12399	13960	14727	15159	15180	15106	15583	15907	15989	15659	14745	14665	15538	15350	15046	14785

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, October 6, 2021 10:38:29 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	694	693	692	692	694	691	693	691	692	692	632	603	601	652	651	599	651	684	694	693	692	691	693	692	694	693	696	691	694	692	692	692	694	693	694	694	692	694	693	691											
JMAH	U002	696	696	696	694	695	695	695	694	695	696	636	606	606	657	605	607	666	693	697	695	694	695	695	694	703	696	694	695	698	695	691	692	697	693	699	694	690	696	694	697	696	694	692								
JMHE	U001	909	910	907	909	907	912	913	777	780	782	779	782	780	782	781	780	778	848	940	939	942	940	973	982	980	978	983	985	985	981	982	982	981	980	980	973	980	980	982	982	983	980	981	979	983	981	980	978			
JMHE	U002	910	908	910	912	911	911	776	785	777	783	781	779	781	782	780	780	850	942	940	940	941	985	982	980	980	979	981	983	981	983	981	978	982	982	981	980	975	980	979	982	981	982	980	980	980	982	977	977	978		
JMJG	U001	673	671	676	673	668	682	671	673	673	671	662	672	668	662	668	667	669	667	665	668	667	664	671	667	667	666	667	666	668	670	667	668	668	666	667	669	668	666	665	668	665	670	663	671	666	664	669	666			
JMJG	U003	668	670	662	674	671	668	669	668	670	675	668	671	662	667	671	668	667	673	668	665	662	666	635	643	643	643	645	660	639	660	665	668	668	667	665	671	668	668	670	668	668	667	672	669	666	666	666	677			
JMJG	U004	913	914	913	914	914	886	826	789	788	787	783	785	785	788	786	787	787	823	906	946	944	949	975	980	980	986	985	983	985	983	985	985	982	988	983	985	985	983	985	983	987	985	988	985	983	983	983	983			
JMJG	U005	889	891	891	892	894	830	801	800	797	800	800	800	797	801	801	801	803	851	891	889	892	892	891	891	890	888	887	888	891	891	890	886	885	887	888	883	884	883	885	883	887	885	881	885	884	882	885	887			
PKLG	U005	459	376	288	267	269	270	269	270	269	269	269	269	271	269	267	268	270	269	268	267	269	269	269	269	269	268	269	269	269	268	269	353	380	424	425	425	425	425	380	292	252	231	175	149	152	149	151	153	150	150	152
PKLG	U006	445	443	444	444	442	444	443	442	440	442	442	442	443	443	444	443	446	447	448	446	446	446	450	451	449	448	449	449	448	448	448	445	449	453	450	449	451	449	450	449	449	446	449	446	446	446	448				
TBIN	U001	691	691	688	690	690	689	691	626	551	550	550	552	550	501	498	517	689	687	689	687	687	689	685	685	687	687	687	687	687	687	686	687	687	687	689	687	595	546	688	687	684	686	686	688	683	686	686	680			
TBIN	U002	210	174	213	216	212	213	212	212	213	213	210	211	214	307	302	302	461	612	693	691	689	691	693	690	691	695	691	691	689	692	686	690	693	689	691	692	600	548	691	692	691	691	691	694	692	693	690	681			
TBIN	U004	913	913	912	913	913	866	854	853	852	853	853	855	853	853	853	852	853	852	934	945	943	945	976	982	983	983	983	982	982	985	983	983	984	981	984	983	982	982	983	982	978	984	983	982	983	983	983	982			
Total ST-Coal		9070	8950	8892	8890	8880	8758	8511	8345	8272	8214	8065	8025	8013	8212	8112	8053	8345	8957	9435	9475	9466	9474	9595	9608	9614	9613	9611	9627	9701	9745	9779	9786	9797	9788	9795	9733	9467	9324	9599	9539	9511	9515	9509	9521	9515	9503	9502	9495			
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				
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				
CBPS	BLK2	354	361	359	364	360	356	361	361	353	354	360	365	363	362	361	360	361	361	362	362	361	358	359	362	359	361	357	356	357	362	362	360	361	362	358	359	366	362	362	370	370	370	370	370	370	370	370	370	370		
EMPP	BLK3	776	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	GT01	95	95	95	97	96	95	96	96	95	95	95	96	96	95	95	96	95	96	96	96	96	95	94	95	95	95	95	96	96	96	96	96	95	95	95	95	96	95	96	108	109	108	108	95	95	94	94				
GLGR	ST1C	41	40	41	41	41	41	41	41	40	41	41	41	41	41	41	41	41	41	40	40	40	40	40	41	41	41	40	41	40	40	38	39	41	40	41	41	41	40	41	44	45	44	45	40	40	40	40				
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
KLPP	GT15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
KLPP	ST17	0	0	0	0	0	0	0	0	0	0	0	5	8	17	29	37	66	65	63	101	138	142	144	144	143	140	130	208	213	211	210	211	210	211	211	197	198	212	211	210	211	210	211	210	211	210	211	211			
NPRI	BLK1	503	513	505	515	514	508	514	514	506	505	511	517	517	513	515	515	514	515	514	515	514	511	512	513	511	510	507	512	511	513	514	515	515	515	504	512	514	514	514	514	523	514	515	514	507	513	514	501	502		
PCGP	PGRG	588	605	592	604	603	594	602	602	592	590	601	605	606	603	604	604	602	606	604	602	605	600	598	601	599	599	594	600	599	603	602	603	604	601	592	598	605	603	603	617	601	602	602	597	604	603	585	586			
PGLA	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				
PGLA	GT12	225	232	230	232	233	231	233	232	225	228	227	228	230	239	207	210	222	223	222	223	222	223	221	223	220	220	219	221	220	222	221	222	221	222	221	222	224	222	221	221	221	218	222	222	217	216					
PGLA	ST10	113	115	115	115	114	113	114	115	111	115	114	114	114	109	135	241	239	239	238	239	238	236	237	238	238	240	238	238	239	237	230	241	241	241	243	237	241	242	241	240	241	239	239	238	239	237	236	235			
PLPS	GT11	140	145	142	143	145	141	144	145	142	141	144	145	144	145	148	148	147	147	140	144	148	148	146	147	115	110	115	143	144	144	144	144	141	129	137	141	126	145	138	139	138	137	115	115	111	111					
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	141	140	142	141	113	109	111	140	142	142	142	143	138	127	133	137	119	141	135	133	133	132	112	112	108	108				
PLPS	ST18	57	57	57	58	58																																														

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					
HTRG	HY02	-1	123	63	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	70	121	63	63	-1	-1	-1	-1	-1
KNRG	HY01	35	35	35	35	23	35	35	35	35	35	36	35	35	35	35	35	35	35	35	35	35	35	35	35	22	22	22	21	22
KNRG	HY02	36	36	36	36	23	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	20	20	20	20	20
KNYR	HY01	96	96	96	96	96	96	96	96	96	96	96	96	96	95	96	95	95	95	95	95	95	95	95	95	95	95	95	95	95
KNYR	HY02	97	61	59	67	90	59	69	59	58	58	59	83	97	61	63	85	97	97	97	97	97	97	97	97	97	97	97	97	97
KNYR	HY03	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
KNYR	HY04	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	60	98	98	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	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	3	3	3	3
PGAU	HY01	-1	150	-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	-1	0
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	20	1	0	0	0	0	0	0
PGAU	HY04	0	21	21	0	0	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	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31	31	31	0	0	0	0
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30	30	0	0	0	0
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	50	31	31	31	31	31	31	0	0	0
SYPS	HY01	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	0	0	0	0
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	0	0	0	0
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	16	16	16	16	16	16	16	16	16
SYPS	HY04	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	16	16	16	16	16	16	16	16	16
TMGR	HY01	33	83	82	82	32	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	82	47	64	68	42	43	49	45	81	42	73	42	65	82
TMGR	HY02	43	45	44	60	86	44	61	51	43	43	46	76	89	45	51	77	89	88	87	67	88	44	42	51	45	83	45	77	44
TMGR	HY03	38	40	41	42	31	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	32	83	32	32	32	32	32	32	32	32	32	32	32	32
UJLI	HY01	-1	183	177	-1	-1	0	0	0	0	0	0	-1	-1	-1	-1	-1	92	107	180	134	89	88	89	-1	-1	-1	-1	-1	-1
UJLI	HY02	87	93	87	94	-1	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	93	-1	-1	91	88	91	-1	-1	-1	-1	-1	-1
UPIA	HY01	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	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	5	5	5
Total Hydro		861	1364	1137	907	681	568	595	575	546	545	572	603	630	548	556	528	629	805	816	1062	915	861	943	980	917	1017	864	931	866
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
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0	0	0	0	0
Total 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
PCUF	CUFG	29	28	27	29	28	28	28	28	29	28	29	28	28	28	28	28	29	29	29	29	29	29	29	29	29	29	28	27	28
PCUF	CUFK	27	28	26	26	25	24	27	25	27	27	26	26	27	24	25	26	25	25	26	26	25	26	26	27	28	28	25	27	26
Total Co-Gen		56	56	53	55	53	53	55	53	56	55	55	54	55	53	56	55	53	55	54	55	54	55	55	56	57	57	53	56	55

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 Gen		13561	13215	12900	12703	12460	12198	12006	11846	11704	11649	11552	11565	11579	11757	11777	11909	12405	13320	13914	14412	14716	14908	15152	15232	15189	15175	15093	15376	15591	15878	15869	15909	15959	16025	15673	15213	14807	14424	14675	15490	15597	15446	15316	15171	15019	14901	14773	14492	
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	0	0	
TIE-HVDC		-30	-30	-29	-29	-30	-30	-28	-28	-28	-28	-29	-29	-30	-30	-30	-30	-30	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-30	-30	-28	-28	-28	-30	-30	-30	-29	-29			
TIE-PLTG		39	9	50	6	19	4	17	1	7	76	32	51	9	84	36	7	40	-47	-13	-40	22	-43	25	18	42	23	19	-13	40	42	-7	24	2	63	46	118	96	62	43	30	91	41	-2	50	6	-21	19	34	
Interconnection		9	-21	21	-22	-11	-26	-11	-27	-21	48	3	23	-21	54	6	-23	10	-77	-42	-68	-7	-73	-4	-11	12	-7	-10	-42	11	13	-35	-5	-27	34	17	88	65	32	13	0	63	13	-30	20	-23	-50	-9	6	
System Total		13556	13240	12883	12729	12475	12228	12021	11877	11729	11605	11553	11546	11604	11707	11775	11936	12399	13401	13960	14484	14727	14985	15159	15246	15180	15185	15106	15421	15583	15868	15907	15917	15989	15994	15659	15128	14745	14395	14665	15494	15538	15437	15350	15155	15046	14955	14785	14489	
SRev ST-Coal		431	492	478	458	470	537	587	599	659	649	861	856	867	822	837	860	796	630	405	365	373	364	245	192	246	188	188	174	184	167	212	205	194	203	196	258	459	501	196	186	164	160	166	154	160	172	173	180	
SRev CCGT-Gas		153	106	133	100	105	132	106	231	274	269	244	293	295	463	352	268	195	475	593	468	259	146	145	128	139	229	320	402	179	152	151	149	150	199	205	265	352	341	117	157	152	155	169	250	266	375	438		
SRev LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	-1	0	0	0	1	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	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	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	0
Syncon		464	0	151	464	651	451	451	451	451	300	825	825	825	825	825	825	551	464	277	313	464	464	464	651	464	464	464	464	313	464	277	277	277	277	500	651	825	651	338	151	338	338	464	464	464	464	587		
Hydro		317	453	529	296	210	151	124	144	125	126	250	66	39	121	113	141	40	138	214	179	290	418	337	399	350	337	365	298	363	542	374	468	552	442	479	336	208	89	262	485	645	620	591	454	371	387	406	193	
S.Reserve Total		1365	1051	1291	1318	1436	1271	1268	1425	1509	1495	1655	2040	2026	2231	2127	2093	1856	1794	1676	1288	1235	1392	1191	1184	1386	1218	1337	1338	1190	1174	1201	1101	1172	1072	1151	1299	1583	1767	1450	1126	1117	1270	1250	1241	1245	1289	1418	1398	