

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,193 MW
Distillate	0 MW
Total TNB	2,193 MW
Total IPP	17,714 MW
Total Co-Gen	0 MW
Total System	22,261 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,952	6.27 %
Gas	19,108	6.32 %
Total TNB	38,060	12.59 %
ST-Coal	186,813	61.79 %
LSS	3,122	1.03 %
Gas	72,659	24.03 %
Total IPP	262,594	86.85 %
Co-Gen	1,306	0.43 %
Total Co-Gen	1,306	0.43 %
Total Generation	301,960	99.87 %
PLTG	303	0.10 %
HVDC	-697	-0.23 %
Interconnection	-394	-0.13 %
Net Energy	302,354	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:	20:00:00 Hour
Total Set On Bus	15,875 MW
TNB Generation	2,306 MW
IPP Generation	12,051 MW
Spinning Reserve	1,464 MW
Maximum Demand	14,393 MW
Net Energy	302,354 MWH
Load Factor	87.53 %

Fuel Cost

Total Cost:	46,676,965.08 RM
Cost per Unit	0.00 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	216
Hydro	308
Syncon	474
Thermal	863
Total	1,861

Time Weather Temperature

Afternoon	Hot	31
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	107
Total TNB	136
CBPS	54
NPRI	80
PGLA	63
PLPS	39
SKSP	4
Total IPP	241
Total Gas	377
Total Gas Required	377

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	14021	13565	12932	12462	12152	11813	11733	11461	10818	11143	11561	11797	12056	12107	12347	12465	12604	12617	12519	13087	14391	14328	14190	14101

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, September 2, 2021 9:13:18 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Tuesday

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	604	600	601	602	600	601	600	600	604	575	500	502	502	502	327	301	300	300	301	302	356	402	403	378	354	400	422	503	417	402	373	350	351	351	349	350	349	402	502	634	663	693	691	692	692	692	697	694		
JMAH	U002	565	509	504	506	503	507	504	503	508	505	504	505	400	406	345	304	305	301	306	306	355	408	405	387	355	404	416	504	410	404	372	353	356	353	351	354	354	393	492	614	690	697	695	695	695	693	695	695		
JMHE	U001	984	981	975	900	897	899	777	778	784	774	780	779	783	781	781	781	779	783	780	779	779	781	778	783	786	776	780	776	782	783	780	780	779	780	776	783	779	777	848	852	914	911	912	909	911	904	911	909		
JMHE	U002	981	980	964	898	878	781	781	780	782	780	781	779	780	781	779	782	781	781	781	781	780	779	780	786	786	778	780	777	784	778	782	778	780	781	775	780	779	780	859	852	912	912	911	909	911	904	909	909		
JMIG	U001	593	599	549	546	550	547	547	548	548	549	548	554	548	545	545	546	508	510	508	510	506	509	508	508	546	591	607	632	632	627	626	626	628	629	628	624	629	626	628	629	627	629	629	628	628	632	678	671		
JMIG	U003	596	596	547	544	537	545	546	545	563	545	540	546	548	544	545	550	495	497	496	495	497	496	497	497	544	597	596	624	625	625	625	625	625	620	626	622	626	624	623	627	622	623	622	623	629	625	671	670		
JMIG	U004	983	979	944	902	892	833	786	785	791	790	791	788	790	789	790	790	789	791	787	786	787	789	789	789	787	790	788	787	788	789	788	790	787	791	786	790	786	789	801	853	889	892	891	891	891	890	887	892		
JMIG	U005	883	883	886	885	868	798	801	798	799	801	799	798	801	801	798	796	804	796	803	800	800	799	798	801	799	799	800	799	801	801	800	801	798	801	800	797	801	800	801	853	889	892	891	891	891	890	887	892		
PKLG	U004	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	U005	270	268	293	268	269	270	269	268	267	270	269	267	267	269	268	270	269	267	267	268	268	269	269	270	269	269	269	269	268	269	269	268	269	271	268	267	270	268	295	378	441	466	466	465	465	465	466	466		
PKLG	U006	449	448	448	449	449	446	448	448	448	446	448	448	448	448	446	370	322	313	310	311	314	311	326	405	447	450	450	448	448	448	445	378	284	268	269	270	288	353	422	438	448	448	446	448	444	442	443			
TBIN	U001	452	450	450	450	450	452	451	450	401	358	329	301	300	301	301	301	301	301	301	301	318	371	402	380	352	348	351	347	304	301	303	301	300	300	301	301	300	320	432	572	691	689	690	690	690	689	693			
TBIN	U002	454	452	453	453	453	454	453	453	405	357	330	303	303	303	302	304	304	303	303	303	303	303	323	366	403	396	353	352	353	351	309	304	303	301	302	302	303	303	302	326	425	606	691	690	689	690	643	414	238	210
TBIN	U004	984	981	937	854	853	853	855	854	851	853	852	853	853	852	851	851	851	853	853	853	855	854	853	853	852	854	853	853	855	854	853	854	851	854	854	852	889	915	913	913	914	913	914	913	914	913				
Total ST-Coal		8849	8726	8551	8257	8199	7986	7818	7810	7751	7603	7471	7423	7323	7322	7078	6946	6808	6796	6796	6797	6937	7133	7212	7233	7231	7407	7464	7671	7422	7384	7319	7203	7114	7095	7093	7091	7097	7245	7874	8636	9282	9454	9470	9462	9430	9180	9105	9079		
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	0	0
CBPS	BLK2	349	362	362	357	357	365	357	357	354	360	359	357	359	359	363	360	364	358	364	362	362	367	357	357	361	348	362	345	360	360	359	359	359	359	360	360	360	362	353	364	354	362	357	363	363	363	363	360		
EMPP	BLK1	738	373	696	759	762	760	757	759	761	759	761	760	758	760	758	760	762	760	758	757	754	756	756	756	755	754	752	750	751	750	751	753	754	752	752	753	757	0	0	0	0	0	0	0	0	0	0	0	0	
EMPP	BLK3	170	169	169	169	170	169	170	170	170	170	169	169	169	169	169	170	169	170	170	170	209	219	213	151	170	240	238	439	708	747	760	754	757	760	760	764	764	766	768	767	768	771	768	770	771	771	771	771		
GLGR	GT01	95	96	95	95	95	95	97	95	96	96	95	97	96	95	96	97	96	96	97	95	97	95	95	97	94	95	95	96	95	95	95	96	95	95	96	95	96	95	96	96	96	96	96	96	96	96	96	96	96	
GLGR	ST1C	41	41	41	41	41	40	41	41	40	41	41	41	41	41	39	41	41	41	41	41	40	40	40	41	41	40	40	41	41	41	41	42	41	40	40	41	41	41	40	41	41	41	41	41	41	41	41	41	41	
NPRI	BLK1	503	513	514	509	506	511	514	500	503	513	513	512	514	514	513	512	515	514	513	511	514	515	510	509	512	493	507	493	514	507	509	514	514	509	506	515	514	514	500	516	509	509	511	514	514	514	514	512	514	
PCGP	PGRG	601	602	602	594	591	599	602	585	590	604	599	603	604	604	601	604	602	602	603	602	603	602	560	597	596	604	339	279	327	603	593	599	603	604	596	594	604	602	602	588	607	599	597	597	603	603	603	601	602	
PGLA	GT11	213	217	216	215	214	216	194	165	143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	218	221	221	220	218	221	198	169	170	220	221	222	222	221	223	156	157	156	155	157	156	154	155	155	148	154	147	216	214	193	196	220	221	217	224	225	223	214	224	227	228	227	228	227	226	228	228	228	227	
PGLA	ST10	232	237	238	236	235	237	231	203	90	99	111	112	112	112	89	90	90	89	90	91	90	89	88	89	88	90	88	110	111	109	103	115	114	113	114	114	114	112	113	112	114	114	114	114	114	115	115	115		
PLPS	GT11	111	115	127	129	128	128	128	129	128	129	129	129	128	129	128	129	129	129	129	129	127	128	129	129	130	129	129	128	129	128	129	128	129	128	129	129	129	144	142	145	144	145	144	144	144	146				
PLPS	GT12	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	107	112	0	0	0																																													

Daily MW Generation on Tuesday

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	
KNRG	HY02	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
KNYR	HY01	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
KNYR	HY02	64	89	62	63	58	58	60	58	57	85	58	63	70	65	72	62	65	64	66	97	97	97	97	97	97
KNYR	HY03	96	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	96	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
LPIA	HY01	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	25	25	25	25	25	25	10	10
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	-1	-1	19	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	111
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	81	20
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	21
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	47
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	47
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	47
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25
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	17	25
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	17	25
TMGR	HY01	-1	82	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	34	35
TMGR	HY02	41	80	46	47	43	45	46	41	44	76	45	53	52	50	67	46	56	50	62	44	49	88	53	76	88
TMGR	HY03	39	74	41	32	31	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	41	40
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	77	85
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	89	92
UPIA	HY01	5	5	5	6	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6
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
Total Hydro		604	823	632	605	595	564	546	539	539	601	543	575	562	555	581	348	337	506	519	606	591	633	612	600	694
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
BDSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	9	13	11	16	16	19	18	23
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	11	14	14	11	31	28	18	23	31
BLSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	11	16	29	15	17	32	12	16	29
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	14	24	23	27	12	16	23	38	24
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	6	17	27	31	35	23	45	34	32
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	9	13	17	20	22	20	24	30	27
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	11	7	8	15	42	31	33	46	31
JSLN	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	13	12	22	29	25	31	47	33
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	7	10	13	25	22	49	24	45	41
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	4	7	9	12	23	30	30	30	30
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	14	21	25	33	32	44	43	37	41
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	17	15	20	35	43	26	33	32	52
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	4	13	13	8	11	21	26	18	25
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	8	13	16	19	22	24	25	29	15
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	11	19	11	17	30	30	25	27	30	30
Total LSS		0	0	0	0	0	0	0	0	0	0	0	13	55	102	176	219	270	335	389	428	421	472	449	459	395
PCUF	CUFG	29	29	28	28	28	28	29	28	29	29	28	29	29	29	28	27	29	29	28	29	29	29	29	29	29
PCUF	CUFG	26	26	27	26	26	26	26	26	27	26	26	26	26	27	25	26	26	26	27	27	25	25	26	26	26
Total Co-Gen		55	55	55	54	54	54	55	54	56	55	54	55	57	58	54	55	53	56	53	54	55	53	56	56	53
Total Gen		13975	13802	13524	13196	12960	12684	12448	12314	12130	11988	11807	11793	11684	11679	11459	11018	10786	10993	11070	11327	11511	11716	11777	11862	11974
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

Daily MW Generation on Tuesday

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																												
TIE-HVDC		-29	-29	-29	-29	-28	-28	-29	-29	-30	-30	-29	-29	-29	-29	-29	-30	-30	-30	-29	-29	-29	-29	-29	-29	-29	-28	-30	-28	-30	-28	-31	-30	-27	-30	-30																	
TIE-PLTG		-14	14	-9	46	59	39	18	50	11	3	26	36	-17	40	29	-1	0	-11	-41	6	-16	4	14	-42	-49	13	-41	-10	-41	7	-6	68	15	74	-5	6	69	41	152	6	49	36	30	-17	0	25	-26	-32				
Interconnection		-43	-15	-38	17	31	10	-11	21	-19	-26	-3	7	-46	11	1	-29	-29	-40	-70	-22	-47	-26	-16	-71	-78	-16	-71	-39	-69	-22	-36	38	-15	45	-34	-23	40	12	124	-24	21	6	2	-47	-30	-2	-56	-61				
System Total		14021	13820	13565	13182	12932	12677	12462	12296	12152	12017	11813	11789	11733	11671	11461	11050	10818	11036	11143	11352	11561	11745	11797	11937	12056	12048	12107	12233	12347	12361	12465	12522	12604	12646	12617	12560	12519	12656	13087	14159	14391	14385	14328	14263	14190	14102	14101	13923				
SRev ST-Coal		539	479	582	789	812	877	879	874	874	875	876	877	982	974	932	981	977	978	979	977	979	980	1000	995	953	950	946	940	934	942	943	991	988	988	987	1001	981	992	988	907	627	537	521	529	561	611	586	422				
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	0	0	
SRev CCGT-Gas		533	224	239	309	480	159	208	327	329	151	141	140	138	137	134	225	349	348	355	226	219	313	368	371	353	532	555	228	314	203	178	174	132	145	161	133	134	132	182	107	132	118	125	109	110	108	113	112				
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	0	0	
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	1	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	0	0	0
Syncon		738	651	587	738	738	825	825	825	825	825	674	825	825	825	926	926	825	825	587	738	738	612	612	738	551	551	612	612	461	551	551	551	277	277	464	277	277	313	0	151	151	151	151	277	277	277	277	277				
Hydro		203	71	326	202	212	156	126	133	133	71	129	248	110	117	91	223	194	126	113	264	128	86	232	244	124	297	240	254	169	355	302	289	278	406	405	254	381	389	473	362	555	637	557	406	306	237	218	371				
S.Reserve Total		2013	1425	1734	2038	2242	2017	2038	2159	2161	1922	1971	1939	2055	2053	1982	2355	2446	2277	2271	2054	2064	2117	2212	2222	2168	2330	2292	2034	2030	1961	1974	2005	1949	1816	1830	1852	1773	1790	1956	1376	1465	1443	1354	1195	1254	1233	1194	1182				