

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,538 MW
Distillate	0 MW
Total TNB	2,538 MW
Total IPP	16,430 MW
Total Co-Gen	0 MW
Total System	21,811 MW

Generation Mix

Type	MWh	Percentage
Hydro	12,279	3.36 %
Gas	40,233	11.00 %
Total TNB	52,512	14.36 %
ST-Coal	217,150	59.37 %
LSS	3,068	0.84 %
Gas	92,883	25.40 %
Total IPP	313,101	85.61 %
Co-Gen	1,253	0.34 %
Total Co-Gen	1,253	0.34 %
Total Generation	366,866	100.31 %
PLTG	412	0.11 %
HVDC	723	0.20 %
Interconnection	1,135	0.31 %
Net Energy	365,731	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	18,924 MW
TNB Generation	2,964 MW
IPP Generation	14,556 MW
Spinning Reserve	1,353 MW
Maximum Demand	17,460 MW
Net Energy	365,731 MWH
Load Factor	87.28 %

Fuel Cost

Total Cost:	77,725,199.80 RM
Cost per Unit	21.19 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	265
Hydro	383
Syncon	631
Thermal	367
Total	1,646

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	24

Gas Usage

Station	(mmscfd)
GLGR	56
TJGS	109
Total TNB	165
CBPS	55
NPRI	163
PGLA	113
PLPS	57
Total IPP	389
Total Gas	554
Total Gas Required	554

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	14542	13828	13373	13013	12743	12544	12586	12849	13404	15173	15916	16436	16417	16327	16924	17243	17360	17104	16039	16142	16813	16635	15998	15611

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, January 3, 2022 12:43:27 PM Head
Grid System Operator
(Ir. Shanmugam Thoppalan)

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	662	605	583	553	556	557	556	472	400	405	404	404	404	405	460	510	509	504	604	698	698	698	698	697	695	696	695	696	697	697	696	697	689	695	695	698	693	695	697	697	697	656	656	612							
JMAH	U002	682	606	600	554	555	555	554	503	400	405	404	404	404	405	458	506	505	504	606	697	703	692	695	696	696	696	695	652	696	692	697	699	695	698	696	695	693	696	696	694	694	694	698	698	702	697	650	654	615		
JMHE	U001	974	899	901	896	900	865	851	796	800	799	802	794	798	804	802	803	799	884	943	978	978	978	978	979	981	979	979	979	984	978	978	977	978	973	978	978	977	975	978	978	975	981	978	985	978	978	979	981			
JMHE	U002	978	901	901	899	898	849	852	797	798	802	801	794	800	803	800	803	798	901	953	980	980	978	979	981	981	982	979	981	981	975	976	976	979	975	979	980	977	978	979	982	975	970	977	972	974	974	972	971			
JMJG	U001	667	667	667	667	667	667	667	630	630	630	600	600	600	600	600	600	570	570	565	568	568	563	568	563	570	564	591	595	594	595	596	626	649	646	647	653	625	591	544	545	567	617	649	625	623	607	607	585	586	587	
JMJG	U002	678	678	678	678	678	678	678	630	630	630	600	600	600	600	600	600	570	570	571	563	568	571	564	573	565	568	598	599	598	598	607	634	646	649	642	651	625	594	543	552	568	615	656	624	621	617	602	585	585	590	
JMJG	U003	667	667	667	667	667	667	667	630	630	630	600	600	600	600	600	570	570	563	563	564	568	567	567	564	566	590	593	594	593	593	626	643	643	643	654	617	585	541	549	564	610	656	621	621	604	602	581	582	585		
JMJG	U004	971	900	900	900	900	850	850	800	800	800	800	800	800	800	800	800	800	797	830	852	865	924	964	972	974	973	973	976	975	972	974	973	975	975	972	972	974	972	977	977	975	972	972	975	973	972	970				
JMJG	U005	894	894	894	894	894	850	850	800	800	800	800	800	800	800	800	800	800	803	868	889	894	895	894	890	894	892	891	886	890	890	892	894	892	895	889	886	889	889	895	891	892	890	890	892	895	892	891	888	892		
PKLG	U003	154	153	154	155	155	155	154	154	155	155	155	155	155	155	155	154	158	155	155	157	158	246	243	242	244	243	243	242	254	275	278	279	279	281	280	281	276	252	252	259	277	278	278	275	280	267	208	205	200		
PKLG	U006	264	270	269	268	268	271	267	269	269	267	270	269	269	268	270	269	267	271	267	282	319	332	330	331	332	330	330	346	427	445	446	449	449	448	450	447	436	423	441	449	449	446	450	447	431	380	360	360			
TBIN	U001	549	503	447	452	450	450	423	401	399	401	401	401	401	387	379	402	421	606	651	685	687	646	692	690	690	689	667	689	690	689	687	688	686	687	689	690	673	689	687	689	687	689	686	688	688	649	649	649			
TBIN	U002	550	504	456	453	453	453	419	405	402	403	404	403	404	392	383	406	418	582	653	678	692	635	691	693	693	693	653	692	692	693	697	696	690	691	692	692	692	689	691	689	683	691	695	692	691	691	692	689	689	653	653
TBIN	U003	553	506	451	451	453	452	436	404	404	403	403	403	403	391	380	402	412	578	656	678	690	656	694	691	691	690	654	693	691	692	690	692	692	689	691	689	683	691	695	692	691	691	692	689	689	653	653	653			
Total ST-Coal		9243	8753	8568	8487	8494	8319	8224	7813	7517	7531	7534	7427	7440	7518	7494	7567	7577	8579	9116	9301	9500	9422	9560	9566	9647	9647	9457	9678	9790	9893	9954	9950	9952	9958	9876	9773	9522	9605	9686	9861	9955	9876	9871	9844	9788	9431	9409	9333			
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	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		
CBPS	BLK2	366	371	365	365	372	366	366	364	375	372	369	365	365	359	360	361	366	366	359	369	359	367	368	362	368	361	371	372	365	362	369	369	366	359	371	370	362	363	373	369	363	370	369	350	328	378	361	374			
EMPP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	205	208	208	376	375	598	756	755	750	725	743	744	744	743	751	753	753	752	752	749	750	752	757	755	756	760	759	761	760	761	759	759	759	759	759			
EMPP	BLK2	0	0	0	0	0	0	0	201	201	200	231	376	376	727	757	758	758	757	759	757	758	753	752	752	710	739	741	741	741	377	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EMPP	BLK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	170	303	300	300	576	716	728	662	375	376	375	375	376	374	375	375	257	0	0	0			
GLGR	GT01	103	102	103	104	102	99	66	67	68	67	68	68	69	68	70	69	69	68	82	105	103	104	104	103	104	104	102	103	103	103	103	104	104	104	95	104	104	101	100	101	102	102	101	102	102	104					
GLGR	GT02	106	106	106	106	106	102	67	68	68	68	69	68	68	68	68	68	69	83	104	104	104	104	104	104	104	103	104	104	103	104	104	104	104	104	96	105	104	106	106	106	106	106	106	106	106	106	106				
GLGR	ST1C	94	94	94	94	93	93	72	71	71	71	71	71	71	71	71	71	71	70	76	93	94	93	93	93	94	94	94	93	94	94	94	94	93	93	94	86	93	94	94	94	94	93	94	94	94	93	94				
NPRI	BLK1	524	527	517	524	526	525	524	517	530	525	526	520	522	514	509	514	526	524	509	522	509	520	521	522	517	513	521	524	520	519	520	520	517	512	524	524	512	515	526	524	506	524	529	525	520	531	523	530			
NPRI	BLK2	527	530	504	528	528	529	527	523	533	529	529	523	526	493	491	495	529	520	494	527	489	523	526	527	506	496	530	529	508	521	523	527	521	509	525	526	504	501	527	526	491	527	532	529	523	535	527	533			
PCGP	PGRG	603	606	592	603	603	603	599	593	612	601	602	593	600	560	552	562	573	568	553	571	585	596	599	597	593	589	607	602	599	596	596	603	593	586	603	610	592	591	602	603	581	602	608	608	595	612	602	611			
PGLA	GT11	216	218	214	216	217	217	217	215	220	218	218	214	215	200	208	165	218	216	212	215	211	212	214	214	212	211	216	214	212	212	214	213	210	214	216	211	212	216	215	211	218	218	217	215	218	217	219				
PGLA	GT12	222	222	218	221	222	222	221	219	225	222	222	219	220	204	213	169	221	220	216	220	215	218	218	219	216	214	220	219	218	216	217	218	217	218	217	218	221	215	217	220	220	221	222	222	218	224	221	224			
PGLA	ST10	237	239	235	238	238	237	236	237	240	239	237	239	238	232	232	209	237	237	236	240	236	242	240	241	240	238	241	242	239	241	242	242	241	241	242	243	241	237	241	242	236	238	241	241	239	243	240	240			
PLPS	GT11	125	124	121	125	130	130	130	130	130</																																										

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
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
HTRG	HY03	3	3	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
HTRG	HY04	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	3
KNRG	HY01	21	22	21	22	21	21	21	21	35	35	22	22	22	22	22	22	22	22	23	34	34	23	22	23
KNRG	HY02	23	24	23	24	23	23	23	23	36	36	23	23	23	23	23	23	23	23	25	24	24	25	35	23
KNRG	HY03	21	22	21	22	22	22	21	21	35	35	22	21	21	21	21	21	21	22	23	34	34	22	22	22
KNYR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	96	96	59	57	59	0	88
KNYR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	99	99	99	60	59	-1	61	62
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	97	97	97	52	53	50	53	98
KNYR	HY04	60	63	59	59	62	62	59	59	96	96	63	63	61	54	58	57	63	59	61	55	60	59	69	63
LPIA	HY01	19	19	19	19	19	19	19	19	17	17	17	17	20	20	20	20	20	20	21	21	21	21	21	21
LPIA	HY02	20	20	20	20	20	20	20	19	19	19	19	20	20	20	20	20	20	20	20	20	20	20	20	20
MNOR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	5	5	4	4	0
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	21	21	20	0	0
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	48	48	48	48	30	0	0
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	30	0	0
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	30	0	0	0
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	25	25	25	25	17	0	0
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	17	0	0
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	25	25	25	25	17	0	0
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	17	0	0
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	81	81	79	78	35	0	0
TMGR	HY02	33	33	32	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	85	85	85	85	37	37	34
TMGR	HY03	0	0	0	0	0	32	-1	-1	-1	-1	0	0	0	0	-1	-1	-1	-1	81	81	81	81	-1	-1
TMGR	HY04	42	72	40	41	84	41	45	41	83	70	42	50	41	41	37	39	41	41	38	49	40	54	43	41
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	93	92	92	98	98	-1	-1
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	89	90	94	87	85	-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
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
Total Hydro		306	344	303	275	297	253	284	247	398	363	263	271	260	243	251	261	270	351	324	343	264	381	370	369
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	0	2	4	8	11	14	19	22	24	20	26	26
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	10	13	18	18	9	27	23	26	10
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	14	18	17	26	20	32	29	30	11
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	13	19	25	26	35	37	40	14	20	33
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	13	8	17	14	21	24	15	19	16
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	10	16	33	25	36	45	43	32	50
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	10	12	14	18	21	22	24	24	25
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	6	27	31	35	40	44	48	50
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	11	18	25	30	24	27	42	43	44	35
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	9	15	22	25	27	28	29	30
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	14	16	8	16	12	18	20	29	33
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	15	23	31	33	37	36	52	53	52
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	9	18	29	33	36	39	41	38	43
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3	4	6	15	6	15	8	12	13
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	19	11	30	18	30	30	15	18	30

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
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
PCUF	CUFG	29	29	28	28	29	28	29	27	28	28	29	27	27	29	28	28	29	28	27	29	27	29	28	28
PCUF	CUFK	24	23	24	25	24	25	24	24	24	22	25	24	23	24	24	25	24	22	25	24	25	23	25	24
Total Co-Gen		53	52	52	53	53	53	53	51	52	50	54	51	50	53	52	54	53	52	53	52	53	50	54	52
Total Gen		14575	14138	13830	13622	13437	13214	13053	12785	12712	12652	12588	12602	12621	12857	12897	12948	13380	14526	15164	15590	15969	16304	16448	16552
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
TIE-HVDC		31	31	31	31	31	30	30	30	30	30	30	30	30	30	30	30	31	31	30	31	31	30	29	29
TIE-PLTG		3	-65	-29	9	33	-2	9	34	-61	9	14	47	5	-26	18	9	-54	-29	-39	-41	23	32	-19	-37
Interconnection		33	-34	2	40	64	28	40	65	-31	39	44	78	35	4	48	39	-24	1	-9	-11	53	63	12	-7
System Total		14542	14172	13828	13582	13373	13186	13013	12720	12743	12613	12544	12524	12586	12853	12849	12909	13404	14525	15173	15601	15916	16241	16436	16559
SRev ST-Coal		484	782	778	782	782	822	821	871	995	994	992	1020	1019	1019	1018	1020	1018	955	637	488	450	543	397	394
SRev CCGT-Gas		143	128	209	141	148	154	251	279	208	235	237	275	257	428	403	675	300	314	770	638	424	187	180	185
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
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
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
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
Syncon		940	940	940	1028	1028	1028	1028	1115	877	1028	1028	941	941	941	941	1029	777	928	928	1029	842	842	842	842
Hydro		265	227	268	208	162	182	237	187	188	72	172	165	176	193	185	186	176	347	228	209	187	257	268	269
S.Reserve Total		1832	2077	2195	2159	2120	2186	2337	2452	2268	2329	2429	2401	2393	2581	2547	2822	2523	2393	2563	2263	2090	1829	1687	1690