

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,318 MW
Distillate	0 MW
Total TNB	2,318 MW
Total IPP	15,734 MW
Total Co-Gen	0 MW
Total System	20,900 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,796	5.82 %
Gas	29,560	9.16 %
Total TNB	48,356	14.98 %
ST-Coal	200,215	62.03 %
LSS	2,335	0.72 %
Gas	71,831	22.26 %
Total IPP	274,381	85.01 %
Co-Gen	276	0.09 %
Total Co-Gen	276	0.09 %
Total Generation	323,013	100.08 %
PLTG	-472	-0.15 %
HVDC	724	0.22 %
Interconnection	252	0.08 %
Net Energy	322,761	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:	15:00:00 Hour
Total Set On Bus	16,107 MW
TNB Generation	2,817 MW
IPP Generation	12,189 MW
Spinning Reserve	1,093 MW
Maximum Demand	14,975 MW
Net Energy	322,761 MWH
Load Factor	89.81 %

Fuel Cost

Total Cost:	50,356,914.11 RM
Cost per Unit	15.58 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	397
Hydro	366
Syncon	343
Thermal	318
Total	1,424

Time Weather Temperature

Afternoon	Rainy	31
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	81
Total TNB	110
CBPS	46
NPRI	163
PGLA	49
PLPS	58
Total IPP	317
Total Gas	427
Total Gas Required	427

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	13292	12703	12288	11906	11726	11501	11539	11872	12111	13469	14097	14465	14499	14364	14678	14975	14917	14517	13808	13788	14435	14054	13766	13622

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, September 2, 2021 9:02:46 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	601	694	694	692	694	693	692	692	694	693	691	691	693	693	694	692	692	694	693	693	692	694	694	692	694	693	687	688	688	654	550	535	478																	
JMAH	U002	607	696	691	693	695	695	695	696	695	697	695	697	698	695	698	698	695	692	696	695	697	699	690	695	697	693	693	696	694	692	695	698	696	656	555	543	491													
JMHE	U001	849	853	801	804	807	798	800	798	778	779	780	778	780	781	782	779	777	782	778	910	911	909	909	908	911	906	908	912	912	957	949	951	949	950	949	951	947	952	947	949	946	947	953	899	896	901	897	852		
JMHE	U002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	37	128	163	440	502			
JMIG	U001	674	671	673	672	676	674	673	669	667	671	674	670	671	671	673	672	673	671	679	673	671	662	668	671	666	666	668	668	669	669	665	663	670	671	666	668	667	672	666	662	668	670	669	673	668	672	662	667		
JMIG	U003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	167	313	377	409	439	518
JMIG	U004	878	857	823	809	808	810	805	805	793	785	785	785	786	787	786	785	785	785	829	884	913	914	914	914	913	915	914	914	929	951	949	950	952	953	948	952	950	953	951	952	952	952	905	906	905	906	857			
JMIG	U005	876	853	804	801	801	800	800	800	801	799	798	799	799	801	797	797	801	799	873	891	891	889	888	892	889	894	889	890	888	891	888	889	887	887	883	882	887	885	880	880	879	883	887	886	852					
PKLG	U004	158	235	280	280	275	282	280	284	278	175	167	158	162	161	241	271	277	278	271	277	279	277	277	277	281	283	281	279	289	284	282	279	279	278	277	273	271	270	269	274	273	167	156	158	158	156	160			
PKLG	U006	446	449	446	449	448	449	450	445	446	448	448	447	448	446	446	446	446	447	446	449	449	451	449	446	448	448	450	449	449	448	448	450	450	448	446	446	447	449	449	449	449	446	446	450	449	449	449	449		
TBIN	U001	619	691	687	691	689	690	690	690	690	691	690	689	689	690	689	692	690	687	689	688	685	689	686	687	686	690	689	689	691	689	690	686	688	688	687	686	689	689	691	689	686	690	688	657	600	573	481			
TBIN	U002	617	698	697	692	692	692	694	691	693	694	692	695	691	692	693	692	692	692	694	692	692	692	692	692	692	693	691	692	692	691	693	692	691	692	692	694	692	691	692	691	690	690	693	690	656	602	579	495		
TBIN	U003	633	696	691	691	688	690	691	691	691	689	689	689	692	693	692	687	690	691	703	693	691	689	688	692	689	691	688	696	690	690	689	690	693	689	686	691	689	691	691	692	691	694	694	689	671	603	583	493		
TBIN	U004	865	851	851	854	851	853	851	851	852	852	853	853	854	854	852	854	853	851	913	912	911	914	912	914	911	912	911	912	941	957	954	953	953	953	954	949	951	952	951	953	952	953	903	902	903	900	854			
Total ST-Coal		7823	8244	8138	8128	8124	8126	8128	8112	8078	7972	7965	7952	7962	7960	8049	8063	8070	8073	8084	8387	8460	8470	8476	8476	8485	8477	8483	8486	8494	8577	8597	8596	8603	8592	8591	8593	8576	8586	8579	8580	8582	8606	8652	8666	8661	8357	8548	8149		
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	0
CBPS	BLK2	361	224	222	251	250	270	220	219	219	229	212	227	219	332	368	325	353	318	302	261	336	350	343	360	357	358	358	363	357	362	357	355	355	359	349	353	255	214	218	357	327	353	228	219	213	224	208	216		
EMPP	BLK1	765	766	758	762	550	445	370	373	376	375	364	375	373	377	374	374	367	601	766	755	750	750	747	741	750	750	750	750	750	750	750	750	750	750	750	700	749	748	747	749	739	749	747	728	750	725	742			
GLGR	GT02	95	96	95	95	97	95	95	95	96	96	96	95	96	95	96	95	95	95	95	96	95	95	95	95	96	97	96	97	96	96	96	96	96	97	97	95	96	95	95	96	96	95	96	96	96	96	96			
GLGR	ST1C	40	41	41	41	40	41	40	40	40	40	40	40	40	40	40	40	41	40	41	40	40	40	41	40	40	41	41	41	41	41	41	41	41	40	41	40	40	40	40	40	40	41	41	40	41	40	41	40		
NPRI	BLK1	526	526	523	523	524	518	518	518	523	525	513	524	518	526	523	521	517	526	526	524	524	527	520	524	511	521	526	526	520	525	516	517	518	518	511	515	515	517	523	524	520	512	524	521	505	525	502	516		
NPRI	BLK2	528	528	527	529	527	521	520	523	527	530	516	528	523	529	527	523	518	529	527	526	528	525	521	525	513	520	527	522	523	520	518	519	520	522	515	518	518	521	526	526	523	514	528	523	508	528	503	519		
PCGP	PGRG	604	263	260	261	263	261	262	262	263	261	262	262	262	261	261	262	263	503	602	600	602	594	600	583	597	603	603	601	603	592	590	594	594	586	588	571	393	398	601	597	586	604	396	394	401	393	392			
PGLA	GT11	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	175	175	156	157	158	155	153	155	156	158	156	156	155	158	164	163	159	158	158	156	157	157	154	157	152	155	157	157	230	228	228	228	233	224	196	155	154	156	157	158	224	221	161	158	153	161	151	157		
PGLA	ST10	123	95	90	89	90	89	89	88	89	88	89	89	89	89	89	89	89	89	89	89	90	90	90	89	89	89	89	114	114	115	113	115	110	109	89	89	89	89	89	112	110	89	90	89	90	88	89			
PLPS	GT11	129	128	129	129	128	129	128	129	128	129	128	128	129	128	128	129	128	128	128	128	129	128	128	127	126	126	126	123	123	125	108	107	109	105	112	114	110	109	114	114	109	114	109	114	106	110				
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	0		
PLPS	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	0		
PLPS	ST18	58	58	58	58	58	58	57	57	57	57	58	58	57	57	58	58	58	58	58	58	58	58	58	58	58	58	58	59	59	106	142	141	143	134	132	131	130	133	203	204	202	203	203	201	204	197	201			
SPGP	BLK1	726	726	626	359	362	360	360	361	362	361	361	361	362	360	361	361	358	725	724	725	725	724	723	725	726	723	725	724	725	723	723	723	723	726	723	724	727	724	727	725	724	726	725	726	725	72				

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	37	37	37	37	37	37	37	37	24	24	24	24	24	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY03	35	36	35	35	35	35	35	35	23	23	23	23	22	21	22	22	22	21	21	21	22	22	22	21
KNYR	HY01	97	97	97	97	97	97	57	-1	-1	-1	-1	-1	97	97	97	97	96	96	96	96	94	94	94	94
KNYR	HY02	92	98	63	97	94	59	59	58	62	98	58	84	82	90	95	98	77	98	98	97	98	97	98	97
KNYR	HY03	98	98	98	98	98	98	59	58	58	57	57	57	60	60	60	98	98	98	98	98	97	97	98	97
KNYR	HY04	99	99	99	99	99	99	59	59	59	58	58	58	60	60	60	99	99	99	98	98	98	98	99	97
LPIA	HY02	26	26	26	26	26	26	26	26	15	15	15	15	15	15	15	15	15	3	0	0	0	0	0	0
MNOR	HY01	2	2	2	2	2	1	1	1	1	1	1	1	1	2	2	2	3	3	3	3	5	5	5	5
PGAU	HY01	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	-1	-1	-1	-1	19	-1	-1	-1	-1	-1
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30	30
SIHY	HY02	30	31	31	31	31	31	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	55	54	82	82	82	82	82	82	34	65	65
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	58	58	88	88	88	88	88	88	-1	-1	-1
TMGR	HY03	34	33	33	33	33	33	0	0	0	0	0	0	0	0	0	0	0	83	82	82	32	32	33	30
TMGR	HY04	43	44	42	43	49	40	40	41	43	38	43	41	42	44	54	83	77	43	43	62	43	44	40	44
UJLI	HY01	91	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	92	92	90	92	170	179	147	88	111	141	89
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	87	95	94	92	93	173	182	151	90	113	145
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	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Total Hydro		776	710	653	687	691	647	569	449	395	435	386	379	373	389	408	412	693	868	952	1017	991	1003	1132	1156
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	1	3	11	11	16	20	20	18	17	19	15
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	12	17	21	25	28	31	31	31	31
BLSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	7	10	21	22	25	31	32	33	32
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	11	22	26	23	13	15	29	17	14
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	3	12	16	22	15	22	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	11	18	5	19	15	12	17	14	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	11	17	28	34	38	39	47	44	
JSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	15	16	21	22	27	8	16	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	14	22	27	32	36	40	42	45	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7	13	18	23	25	30	30	23	29	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	9	13	16	18	29	32	14	17	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	15	16	16	22	44	52	52	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	8	10	14	29	28	38	34	37	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	8	9	15	15	12	8	8	
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	7	12	13	16	15	19	22	15	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	3	27	60	118	162	220	278	340	373	396	417
PCUF	CUFK	3	3	4	3	5	4	3	3	3	5	4	3	4	3	4	5	3	3	4	3	3	3	3	3
PCUF	CUFG	4	3	4	3	3	3	2	3	3	3	3	3	3	3	4	3	3	4	3	3	3	3	3	3
Total Co-Gen		7	6	8	6	8	7	5	6	6	6	8	9	6	8	6	7	7	8	8	6	6	8	6	7
Total Gen		1302	1294	1268	1243	1226	1212	1194	1178	1171	1161	1150	1158	1156	1171	1182	1182	1213	1294	1347	1393	1410	1430	1468	1456
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

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		30	31	31	30	30	30	30	29	30	31	30	30	31	31	31	31	29	29	31	31	30	30	31	31	30	30	29	29	30	29	29	30	30	29	29	30	30	30	30	31	31	29								
TIE-PLTG		-16	-48	-48	-11	-46	14	-18	-7	-36	-1	21	-44	-4	-51	-47	5	4	-47	-18	-33	-18	-58	-23	-57	-33	-67	-48	-78	2	-18	12	-11	27	16	-3	16	-14	-19	11	-20	8	8	-13	-5	-16	-42	-42	-29		
Interconnection		14	-18	-17	19	-16	44	11	23	-8	29	52	-14	26	-20	-16	36	35	-16	13	-2	13	-29	6	-26	-2	-37	-18	-47	33	11	42	19	57	46	27	45	15	11	41	10	38	38	17	26	14	-10	-11	0		
System Total		13292	13006	12703	12458	12288	12080	11906	11769	11726	11635	11501	11606	11539	11735	11872	11790	12111	12960	13469	13939	14097	14337	14465	14586	14499	14432	14364	14626	14678	14955	14975	14949	14917	14867	14517	14224	13808	13659	13788	14385	14435	14213	14054	13913	13766	13717	13622	13291		
SRev ST-Coal		705	407	447	449	448	444	437	451	455	472	474	475	472	477	467	464	456	455	443	352	334	349	343	343	334	342	336	333	325	242	222	223	216	227	228	226	243	233	240	239	237	298	294	433	603	690	678	736		
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 CCGT-Gas		636	949	1082	1317	1311	1311	1365	1358	1347	1334	1380	1334	1360	1230	1192	1243	1228	876	656	600	527	411	440	404	456	423	397	222	134	129	168	148	136	136	254	390	704	923	964	339	222	229	660	888	952	867	981	923		
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 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	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
Syncon		639	675	826	826	826	826	826	927	927	927	927	927	927	927	927	927	639	464	277	126	277	277	277	277	277	277	277	365	365	365	365	277	213	364	364	364	364	364	364	364	364	551	551	400	551	551	551	639		
Hydro		256	286	192	158	155	199	141	261	214	174	223	229	235	219	200	197	254	254	358	444	319	280	151	126	224	294	261	156	391	279	427	583	452	463	473	510	323	294	203	322	367	407	314	478	423	302	447	358		
S.Reserve Total		2236	2317	2547	2750	2740	2780	2769	2896	2943	2907	3004	2965	2994	2853	2786	2831	2577	2049	1734	1522	1457	1317	1211	1150	1291	1336	1359	1076	1215	1015	1094	1167	1168	1190	1319	1490	1634	1814	1771	1264	1190	1485	1819	2199	2529	2410	2657	2656		