

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,246 MW
Distillate	0 MW
Total TNB	2,246 MW
Total IPP	18,355 MW
Total Co-Gen	0 MW
Total System	23,675 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,097	4.56 %
Gas	37,400	10.59 %
Total TNB	53,497	15.15 %
ST-Coal	216,908	61.41 %
LSS	3,266	0.92 %
Gas	78,585	22.25 %
Total IPP	298,759	84.58 %
Co-Gen	1,274	0.36 %
Total Co-Gen	1,274	0.36 %
Total Generation	353,530	100.08 %
PLTG	995	0.28 %
HVDC	-697	-0.20 %
Interconnection	298	0.08 %
Net Energy	353,232	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	17,853 MW
TNB Generation	2,421 MW
IPP Generation	14,118 MW
Spinning Reserve	1,262 MW
Maximum Demand	16,623 MW
Net Energy	353,232 MWH
Load Factor	88.54 %

Fuel Cost

Total Cost:	55,050,272.96 RM
Cost per Unit	15.56 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	162
Hydro	297
Syncon	641
Thermal	364
Total	1,464

Time Weather Temperature

Afternoon	Hot	33
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	36
TJGS	106
Total TNB	142
CBPS	55
NPRI	154
PGLA	54
SGRI	66
SKSP	0
Total IPP	329
Total Gas	472
Total Gas Required	472

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	14319	13686	13357	13007	12593	12385	12464	12608	13065	14611	15363	15883	15805	15773	16227	16623	16595	16047	15085	14947	15856	15678	15408	15272

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, October 6, 2021 10:49:28 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Tuesday

		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		453	361	352	351	300	302	301	300	301	301	302	303	302	302	301	301	301	403	401	400	454	506	553	604	570	550	552	610	693	693	694	692	692	693	630	633	551	551	551	695	699	692	692	692	693	693	691	693	651
JMAH	U002		459	365	356	353	302	306	304	302	305	305	305	304	302	305	304	306	305	409	405	406	453	486	556	610	606	503	505	605	690	695	696	695	698	694	695	635	554	555	555	693	695	693	696	697	695	697	694	656	
JMHE	U001		947	901	893	852	854	851	848	798	795	779	777	781	781	777	779	782	780	779	901	955	984	978	982	984	980	981	978	981	982	981	981	979	984	979	978	983	980	983	984	981	980	980	975	976	977	980	986	977	
JMHE	U002		927	900	891	850	852	850	850	801	799	784	781	781	777	784	781	779	782	784	912	951	988	978	978	983	979	981	980	981	982	980	981	977	982	979	980	981	979	983	981	979	979	982	977	980	979	979	981	979	
JMJG	U001		677	672	673	672	606	601	540	508	470	447	448	447	447	450	506	548	551	575	663	671	672	670	668	669	669	671	672	667	668	668	669	669	669	669	669	669	669	669	669	669	669	669	669	669	669	669	669		
JMJG	U002		343	488	514	518	519	517	551	568	581	620	690	613	547	495	537	548	572	658	673	672	672	673	671	675	674	674	678	674	673	673	672	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	
JMJG	U003		667	664	666	667	606	594	542	503	462	447	445	442	445	496	533	546	570	652	670	666	667	671	668	662	662	665	671	659	662	664	659	666	666	666	666	666	666	666	666	666	666	666	666	666	666	666	666	666	
JMJG	U004		980	925	904	854	854	855	856	827	809	800	789	791	790	790	790	790	791	790	795	877	942	983	982	983	980	983	982	983	979	981	982	981	981	981	981	981	981	981	981	981	981	981	981	981	981	981	981	981	981
JMJG	U005		892	890	894	850	848	852	851	801	801	800	796	799	801	795	803	805	803	795	878	888	889	884	887	887	883	885	891	895	892	891	887	889	889	889	889	889	889	889	889	889	889	889	889	889	889	889	889	889	889
PKLG	U005		271	267	267	269	268	269	269	273	269	268	269	269	269	271	269	268	269	269	269	268	269	268	269	268	269	268	269	268	269	268	268	268	268	298	392	408	368	308	270	269	271	269							
PKLG	U006		450	423	335	294	273	269	269	269	269	269	269	268	269	268	269	268	269	268	269	268	269	268	269	268	269	268	269	268	269	268	268	268	298	392	408	368	308	270	269	271	269								
TBIN	U001		341	299	302	300	301	301	302	301	303	301	300	300	301	302	302	302	303	354	351	353	352	351	353	376	350	352	354	401	510	652	690	689	689	690	644	550	501	500	500	622	690	687	686	686	687	686	687	652	
TBIN	U002		343	302	304	303	303	306	303	301	303	304	302	301	303	302	302	302	302	354	354	352	354	348	357	389	352	352	354	410	568	686	693	692	689	691	632	575	501	504	503	663	693	691	692	691	692	694	690	666	
TBIN	U004		970	902	900	852	853	850	850	849	853	853	853	853	853	851	852	852	852	852	852	903	962	983	981	981	981	980	983	983	983	983	981	984	984	983	983	983	983	983	981	982	982	983	982	985	982	983	981		
Total ST-Coal			8720	8359	8251	7985	7739	7723	7636	7400	7320	7278	7326	7252	7190	7244	7370	7400	7472	8110	8561	8812	9104	9227	9351	9522	9413	9291	9313	9573	10002	10324	10423	10460	10474	10459	10259	9973	9637	9656	9598	10145	10342	10348	10372	10344	10308	10307	10299	10147	
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		358	362	362	364	365	362	365	365	366	368	354	361	361	365	360	360	367	353	360	354	355	381	373	377	376	354	362	361	361	358	355	353	360	364	360	357	359	356	359	361	347	360	357	362	354	364	364	363	
EMPP	BLK1		760	762	758	764	765	764	756	765	766	764	766	764	762	764	765	762	762	764	763	760	760	759	757	759	759	759	757	755	466	406	375	337	343	347	344	342	340	339	337	206	204	5	5	5	5	5	5	5	5
EMPP	BLK3		209	364	210	218	219	219	169	169	169	169	159	149	164	164	164	164	154	154	154	154	0	0	0	0	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	94	95	96	96	96	96	94	95	95	96	95	96	95	95	95	95	95	95	97	94	95	96	95	108	110	110	110	110	109	109	109	99	92	77	67	67	69	100	100	99	99	99	99	99	100	101	99
GLGR	GT02		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	57	63	65	82	66	66	67	101	100	99	99	99	99	99	99	99	99		
GLGR	ST1C		41	41	41	41	41	40	41	41	40	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	46	47	47	46	45	47	44	40	91	77	77	72	88	92	92	92	92	92	92	92	92	
NPRI	BLK1		512	510	504	510	520	511	511	514	508	512	503	512	511	512	508	510	515	501	504	503	505	505	514	502	494	499	506	509	509	506	501	497	505	511	505	511	503	508	509	510	489	506	506	511	500	517	513	511	
NPRI	BLK2		519	517	512	518	527	518	518	521	515	518	510	521	518	519	516	520	520	507	512	512	512	542	545	544	537	541	538	536	533	527	523	521	526	531	529	529	526	512	512	512	491	509	509	514	503	520	516	514	
PCGP	PGRG		603	603	593	604	616	603	602	608	600	607	591	605	603	603	599	603	605	589	593	591	595	597	608	591	582	589	603	603	602	596	590	587	595	602	597	602	594	599	602	602	572	600	597	602	590	611	608	607	
PGLA	GT11		234	229	224	225	175	159	159	171	162	162	158	163	162	162	162	163	164	169	222	221	222	222	226	221	219	172	186	225	224	225	223	222	226	229	227	229	216	160	161	225	219	226	225	225	222	228	227	226	
PGLA	ST10		116	106	111	112	92	88	89	88	88	89	88	89	88	88	88	88	88	113	114	111	114	114	111	112	88	90	114	115	114	114	115	113	113	112	112	113	87	87	111	109	111	110	111	113	111	112			
SGRI	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		
SGRI	GT12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	140	140	142	143	144	144	144	144	145	145	144	143	142	143	143	143	143	143	115	115	115	129	136	141	110	110	70	11	0	0		
SGRI	GT13		0	0	0	0	0	0	0	0	17	34	36	28	29	29	58	54	141	144	141	146	145	145	145	145	145	145	145	144	144	141	141	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	
SGRI	ST14		0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	35	143	147	142	218	22																												

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	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
KNRG	HY01	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
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
KNYR	HY01	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
KNYR	HY02	97	96	97	96	96	97	96	96	96	97	96	96	97	96	96	96	96	96	96	96	96	96	96	96
KNYR	HY03	55	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
KNYR	HY04	57	75	61	62	98	61	88	98	84	98	60	97	93	62	60	59	97	95	98	98	56	98	98	97
LPIA	HY01	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	17	17	17	17	17	11	11	8
LPIA	HY02	16	16	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	17	11	11	11
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
PGAU	HY01	-1	-1	19	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1
SIHY	HY01	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	HY02	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	30	30	30
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	0	17	17	0
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	0
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	0
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	0	0	0	0
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	35	81	32	31	33	33	34	-1	-1
TMGR	HY02	51	68	45	43	87	44	79	89	79	89	44	88	85	50	46	46	76	44	43	42	43	44	89	44
TMGR	HY03	46	-1	-1	-1	80	12	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	32	31	-1	-1	-1	-1	-1
UJLI	HY01	-1	-1	-1	91	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
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	-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		581	599	582	652	722	573	623	642	619	644	560	664	633	628	519	440	584	531	572	570	547	608	666	665
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	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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	30	28	28	28	27	29	29	29	27	28	29	28	29	29	28	28	28	27	26	27	25	26	24	26
PCUF	CUFK	25	26	26	26	27	26	25	27	25	25	26	25	26	26	26	26	27	25	25	26	27	26	26	27
Total Co-Gen		55	54	54	54	54	55	54	56	52	53	55	53	55	54	54	55	56	55	56	53	53	53	55	54
Total Gen		14283	14008	13702	13548	13335	13115	13028	12764	12626	12544	12465	12434	12439	12595	12645	12633	13025	13940	14603	15003	15343	15618	15846	16005

Daily MW Generation on Tuesday

[illegible]