

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,529 MW
Distillate	0 MW
Total TNB	2,529 MW
Total IPP	15,709 MW
Total Co-Gen	0 MW
Total System	22,204 MW

Generation Mix

Type	MWh	Percentage
Hydro	22,917	6.17 %
Gas	63,297	17.05 %
Total TNB	86,214	23.22 %
ST-Coal	165,037	44.44 %
ST-Oil	5,461	1.47 %
LSS	3,006	0.81 %
Distillate	10,879	2.93 %
Gas	100,064	26.95 %
Total IPP	284,447	76.60 %
Co-Gen	1,294	0.35 %
Total Co-Gen	1,294	0.35 %
Total Generation	371,955	100.17 %
PLTG	-102	-0.03 %
HVDC	719	0.19 %
Interconnection	617	0.17 %
Net Energy	371,338	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	19,280 MW
TNB Generation	4,634 MW
IPP Generation	12,995 MW
Spinning Reserve	1,596 MW
Maximum Demand	17,653 MW
Net Energy	371,338 MWH
Load Factor	87.65 %

Fuel Cost

Total Cost:	94,792,750.90 RM
Cost per Unit	25.48 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	717
Hydro	466
Syncon	232
Thermal	311
Total	1,726

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	24

Gas Usage

Station	(mmscfd)
GLGR	52
PGPS	13
TJGS	207
Total TNB	272
CBPS	5
KLPP	60
NPRI	152
PGLA	56
PLPS	37
SGB3	33
SGRI	24
SKSP	2
Total IPP	369
Total Gas	641
Total Gas Required	875

Alternate Fuel Usage

Station	(mmscfd)
PGLA	53
KLPP	41
PGLA	53
SGB3	28
SGRI	5
PKLG	53
Total	234

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	14891	14363	13816	13369	13220	12876	13148	13385	13784	15307	16071	16565	16517	16299	16916	17474	17621	17269	16163	15952	17035	16825	16306	15898

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, February 3, 2022 5:32:12 PM

 (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	546	694	695	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JMHE	U001	677	749	750	751	751	749	751	751	754	750	749	751	753	748	896	949	947	948	953	949	952	947	949	950
JMHE	U002	499	496	498	503	499	500	500	501	503	501	500	500	503	501	500	502	500	499	502	501	502	501	499	500
JMJG	U001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	200	300	300	400	500	500	500	500
JMJG	U002	650	650	650	650	650	650	650	650	650	500	500	500	500	600	680	680	680	680	680	680	680	668	674	671
JMJG	U004	800	800	800	800	800	800	800	750	750	750	750	750	750	750	840	950	950	950	950	950	950	955	952	952
JMJG	U005	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	752	749	750	750	746
PKLG	U003	253	254	255	253	254	253	253	254	253	252	254	255	251	256	259	256	251	252	254	256	253	253	255	254
PKLG	U004	275	271	271	275	274	273	271	272	271	271	274	272	273	273	274	270	278	275	273	275	277	279	275	276
PKLG	U006	448	449	445	431	440	442	442	444	445	446	442	447	444	441	444	445	442	441	442	443	444	440	443	444
TBIN	U001	596	600	601	636	692	690	691	601	561	530	454	452	470	603	599	597	689	687	690	690	689	691	690	689
TBIN	U002	599	603	602	602	602	602	602	602	578	532	454	452	462	604	601	602	602	601	602	601	602	601	602	603
TBIN	U003	599	601	602	645	688	690	690	601	590	530	453	452	467	601	602	602	683	690	687	690	691	690	690	692
Total ST-Coal		6692	6917	6919	6296	6400	6399	6400	6176	6105	5814	5579	5577	5616	6031	6021	6024	6309	6390	6610	6783	6806	6988	6990	7077
PKLG	U002	240	244	241	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	236	232	213	203
Total ST-Oil		240	244	241	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	236	232	213	203
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
CBPS	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	18	
EMPP	BLK1	689	700	707	703	710	704	702	706	709	705	711	710	712	711	707	709	715	710	705	713	710	700	712	692
EMPP	BLK3	0	0	0	0	0	0	0	0	80	201	201	201	200	197	210	377	375	537	754	753	753	754	749	751
GLGR	GT01	105	106	104	104	105	104	105	104	105	104	103	105	105	104	92	69	109	108	108	107	107	108	81	
GLGR	GT02	105	104	104	105	104	105	104	104	105	104	104	104	104	90	70	109	108	108	108	108	109	80		
GLGR	ST1C	93	93	93	93	93	93	93	93	93	93	93	93	93	88	71	95	96	96	96	84	71	71	71	
KLPP	GT13	141	141	138	139	138	138	139	138	138	139	138	139	139	140	139	139	138	137	138	138	137	136	128	
KLPP	GT14	0	0	121	121	123	121	121	121	120	121	121	121	127	121	121	126	136	131	131	137	136	136	44	
KLPP	GT15	135	135	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	ST17	208	173	174	137	137	137	136	137	137	137	137	137	138	138	137	138	141	140	140	141	140	208		
NPRI	BLK1	491	506	515	505	518	504	507	509	517	504	520	512	515	515	509	525	525	509	508	521	518	508	516	
NPRI	BLK2	496	515	516	511	524	508	515	511	522	508	526	517	518	518	512	528	529	512	516	527	521	511		
PCGP	PGRG	575	591	600	591	602	591	588	596	602	592	601	604	607	601	592	606	607	597	591	610	602	587		
PGLA	GT11	217	189	193	190	193	189	189	191	193	189	192	193	195	193	190	174	175	227	222	227	224	217		
PGLA	ST10	224	207	209	207	209	207	209	207	206	208	209	208	209	209	208	195	196	224	226	229	230	227		
PGPS	GT3A	92	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PGPS	GT3B	94	93	73	72	73	73	72	72	72	72	72	72	72	72	72	72	72	73	72	73	72	73		
PGPS	ST3C	89	43	32	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	32	
PLPS	GT11	129	129	128	129	128	128	128	129	128	129	129	128	128	129	129	129	128	128	128	129	129	128		
PLPS	ST18	57	57	58	57	57	57	57	57	58	57	58	57	58	58	58	58	58	57	58	58	57	58		
SGB3	GT31	0	0	0	0	0	0	0	106	109	106	109	113	114	112	108	110	113	110	110	111	113	142		
SGB3	GT32	113	113	117	115	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SGB3	ST34	191	158	105	128	114	60	56	56	56	52	65	59	57	57	54	54	66	58	58	61	124			
SGRI	GT21	0	0	0	0	0	0	0	112	113	109	112	112	116	112	116	116	113	113	116	116	109			
SGRI	GT22	107	107	111	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SGRI	ST24	123	124	102	122	57	57	58	56	52	53	53	51	52	52	49	57	56	57	57	54	56			
SKSP	BLK1	219	156	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SPGP	BLK1	0	0	0	0	0	0	0	0	81	80	75	208	208	208	209	206	207	208	249	333	341	692		
SPGP	BLK2	724	726	723	723	725	725	727	727	726	726	724	725	725	726	728	723	727	725	726	723	726			
TJGS	GT1A	214	226	227	219	226	226	225	224	226	225	227	227	225	225	224	198	200	231	223	224	227			

Daily MW Generation on Wednesday

[illegible]

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
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
PGLA	GT12	213	196	196	196	196	196	196	196	196	196	196	196	196	196	196	196	196	196	196	196	196	196	196	196
SGB3	GT31	127	110	58	105	108	105	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGB3	GT33	131	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT21	128	111	53	108	112	111	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Distillate		744	482	307	409	416	412	415	196	196	196	196	196	196	196	196	196	196	196	196	196	196	196	196	196
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
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
JELS	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
KMLS	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	28	28	27	28	28	27	28	28	28	29	27	29	27	28	28	27	28	28	27	29	28	28	29	28
PCUF	CUFK	24	21	21	22	25	25	24	27	28	27	28	28	31	26	24	29	27	25	24	29	27	25	22	28
Total Co-Gen		52	49	48	50	53	52	52	55	56	55	57	55	60	53	52	58	56	54	55	53	56	54	55	57
Total Gen		14996	14582	14387	14035	13800	13604	13433	13170	13210	13051	12853	12905	13123	13406	13367	13444	13730	14735	15287	15787	16049	16424	16519	16699
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		30	31	31	29	29	30	30	30	30	31	31	29	29	29	31	31	31	31	31	29	30	30	30	30
TIE-PLTG		75	44	-7	0	-45	17	35	23	-40	5	-53	0	-55	9	-47	-77	-84	-65	-50	-110	-51	0	-75	-3
Interconnection		105	75	24	29	-16	46	64	52	-10	36	-23	29	-25	38	-18	-47	-54	-34	-20	-80	-22	29	-46	28
System Total		14891	14507	14363	14006	13816	13558	13369	13118	13220	13015	12876	12876	13148	13368	13385	13491	13784	14769	15307	15867	16071	16395	16565	16671
SRev ST-Coal		548	548	551	537	429	428	430	547	573	674	675	673	674	611	614	608	476	430	445	293	288	285	286	298
SRev CCGT-Gas		609	741	745	671	715	734	401	452	434	493	422	445	401	421	458	620	645	358	384	337	526	417	468	571
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-Oil		0	-4	-1	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 Distillate		66	328	207	105	98	102	99	35	35	35	36	35	35	35	35	54	54	16	17	17	112	39	35	49
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		752	752	752	374	651	651	752	752	752	752	601	752	753	752	752	652	464	464	277	464	464	464	464	464
Hydro		355	408	373	443	328	456	443	398	388	414	322	245	374	325	326	246	152	285	382	194	283	302	327	364
S.Reserve Total		2417	2860	2714	2130	2221	2371	2212	2371	2369	2555	2394	2337	2272	2331	2373	2467	2166	1741	1692	1305	1485	1506	1428	1745