

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,430 MW
Distillate	0 MW
Total TNB	2,430 MW
Total IPP	16,351 MW
Total Co-Gen	0 MW
Total System	22,340 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,469	4.16 %
Gas	43,876	11.81 %
Total TNB	59,345	15.97 %
ST-Coal	211,881	57.02 %
LSS	4,214	1.13 %
Gas	94,336	25.39 %
Total IPP	310,431	83.55 %
Co-Gen	1,234	0.33 %
Total Co-Gen	1,234	0.33 %
Total Generation	371,010	99.85 %
PLTG	151	0.04 %
HVDC	-701	-0.19 %
Interconnection	-550	-0.15 %
Net Energy	371,560	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	19,587 MW
TNB Generation	3,098 MW
IPP Generation	14,323 MW
Spinning Reserve	2,106 MW
Maximum Demand	17,542 MW
Net Energy	371,560 MWH
Load Factor	88.25 %

Fuel Cost

Total Cost:	88,317,432.70 RM
Cost per Unit	23.80 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	703
Hydro	627
Syncon	489
Thermal	279
Total	2,098

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	50
TJGS	159
Total TNB	210
CBPS	44
EMPP	292
NPRI	69
PCGP	73
PGLA	83
PLPS	48
SPGP	92
Total IPP	700
Total Gas	910
Total Gas Required	910

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	14938	14126	13701	13366	13079	12847	13040	13285	13815	15432	16038	16484	16479	16330	17078	17353	17501	17226	16147	15959	17172	17114	16587	16171

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, March 2, 2022 3:39:49 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	699	696	696	697	696	697	697	656	603	606	604	605	606	690	693	698	696	693	690	695	692	693	692	692	692	700	695	696	695	694	693	695	695	695	697	650	605	604	692	695	694	693	694	695	693	691	694		
JMAH	U002	693	696	701	697	698	696	695	655	605	605	605	603	604	694	695	698	696	694	695	695	695	697	694	694	695	696	695	696	696	694	696	696	689	699	696	653	606	605	696	699	696	695	695	695	696	694	695	695	
JMHE	U001	952	929	901	901	901	856	851	849	852	850	849	851	850	845	848	849	852	878	945	953	951	948	949	955	945	952	950	953	952	951	945	951	945	947	948	950	946	950	948	946	947	947	949	949	950	949	951	945	
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	2	40	119	132	287	506	774	902	968	985	980	978	977	984	945	950	951	951	951	947	
JMJG	U001	670	672	673	672	672	673	671	673	596	600	598	597	644	673	675	672	674	676	673	672	671	671	673	672	673	672	672	672	673	673	673	672	672	672	672	673	645	632	592	597	600	596	596	598	598	600	564	504	
JMJG	U002	598	600	601	598	596	598	598	597	599	601	599	596	596	599	598	596	596	598	598	600	600	599	599	599	597	596	601	598	600	658	680	680	675	673	673	673	644	634	596	598	601	601	592	588	598	598	568	503	
JMJG	U004	945	900	898	899	898	851	853	844	846	844	844	847	847	848	843	848	844	848	848	909	952	952	951	948	948	950	948	944	945	946	944	946	945	946	944	949	944	945	946	945	944	948	947	946	945	944	898		
JMJG	U005	941	900	900	898	897	849	848	851	847	848	848	849	849	839	857	854	848	867	944	944	941	944	942	944	939	943	944	944	942	942	942	942	942	943	939	941	942	943	941	944	941	944	943	944	939	938	900		
PKLG	U003	253	254	254	252	254	248	205	203	202	204	204	203	205	205	204	241	251	252	252	255	252	251	253	254	252	247	253	252	250	253	251	251	249	251	252	250	253	251	252	252	246	248	251	248	242	248	248		
PKLG	U004	205	203	205	208	203	204	204	205	207	208	206	207	204	207	205	204	205	203	208	205	205	205	206	212	215	261	278	276	274	267	274	273	275	278	275	275	276	285	279	272	271	276	271	277	276	277	275	285	
PKLG	U006	445	446	446	445	443	445	443	409	405	406	405	406	405	405	405	433	438	446	449	449	445	441	443	443	444	445	446	447	448	447	449	446	446	448	449	448	449	447	449	402	356	359	358	359	359	359	359		
TBIN	U001	688	687	686	685	686	688	687	648	649	617	599	599	649	686	685	687	686	689	687	689	687	688	687	687	689	689	689	688	688	685	688	691	687	687	688	629	629	648	684	687	687	687	688	688	688	689	686		
TBIN	U003	688	691	691	694	693	692	691	642	653	651	602	603	629	693	686	694	692	689	691	691	692	686	690	689	691	692	691	693	689	690	690	689	689	690	692	647	627	653	693	691	691	694	692	690	691	692	692	691	
TBIN	U004	931	923	902	902	903	856	854	852	853	854	852	853	854	853	854	854	854	861	932	931	931	931	941	948	931	930	931	931	931	930	929	929	933	928	932	929	932	931	932	929	931	930	931	931	930	931	929	932	
Total ST-Coal		8708	8597	8554	8548	8540	8353	8297	8084	7917	7894	7815	7819	7942	8234	8249	8330	8332	8392	8673	8731	8714	8706	8720	8737	8711	8773	8793	8791	8785	8875	8873	8993	9130	9361	9637	9562	9470	9511	9681	9633	9592	9593	9550	9560	9570	9558	9494	9287	
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	241	220	223	220	227	220	225	223	224	224	223	223	226	226	218	218	226	221	222	330	357	357	362	360	357	357	358	357	359	358	358	356	352	359	329	207	222	223	223	237	354	361	361	346	260	222	224	209	
EMPP	BLK1	703	557	412	410	428	411	411	412	434	411	413	414	414	409	404	410	437	705	704	691	705	702	692	708	691	695	705	709	709	706	695	706	695	706	692	689	702	602	602	714	706	712	708	711	703	710	710	688	
EMPP	BLK2	704	596	606	605	605	604	606	606	607	603	605	605	606	603	596	603	606	704	704	691	705	701	692	707	691	696	705	710	708	705	695	704	696	704	693	689	701	601	601	713	706	711	709	711	702	709	710	689	
EMPP	BLK3	765	765	765	765	766	766	764	766	763	764	761	763	765	766	766	766	767	766	765	768	763	763	762	755	755	754	752	374	746	751	758	758	759	759	759	762	758	754	758	759	761	763	763	766	549	548	547		
GLGR	GT01	69	68	68	68	69	68	68	69	69	69	69	68	68	68	68	68	68	68	70	80	106	105	104	104	103	66	68	69	68	68	101	100	102	100	89	68	68	69	68	95	106	104	105	103	105	104	104		
GLGR	GT02	69	68	68	68	67	68	68	68	68	68	68	68	68	67	68	68	68	68	81	104	104	106	104	104	66	67	67	68	68	68	101	100	100	100	87	67	67	67	67	95	103	103	103	103	103	104	104		
GLGR	ST1C	71	71	71	71	71	71	71	71	71	71	71	71	71	71	70	71	70	71	74	93	93	93	93	93	71	71	71	72	71	71	89	90	90	90	87	71	72	72	72	84	94	94	94	94	95	93	92		
NPRI	BLK2	391	317	317	320	319	319	320	315	322	317	320	320	319	316	313	314	319	320	508	496	508	507	496	512	496	499	507	511	514	508	506	506	506	506	506	506	506	506	506	506	506	506	506	506	506	506	506		
PCGP	PGRG	593	596	400	262	262	262	261	260	264	262	260	261	261	262	262	259	261	603	602	588	601	600	587	604	589	590	601	604	607	602	589	602	589	602	582	576	490	406	402	609	590	597	598	601	587	602	603	576	
PGLA	GT11	169	169	171	171	171	171	171	170	172	170	170	171	172	169	168	169	171	171	167	171	169	167	172	167	166	171	171	189	217	213	169	166	168	164	169	169	160	159	160	155	157	157	159	155	159	159	152		
PGLA	GT12	173	174	174	175	175	175	174	176	174	176	174	174	176	174	172	173	177	176	175	171	174	173	170	176	170	170	174	175	192	217	172	168	172	167	174	0	0	0	0	0	0	0	0	0	0	0	0		
PGLA	ST10	203	203	205	204	204	205	204	204	204	204	204	205	204	204	203	203	204	203	204	199	203	204	203	206	204	203	206	202	217	240	238	203	202	204	200	169	91	88	90	90	89	89	88	88	88	88	88	87	
PLPS	GT11	128	129	129	129	129	129	128	129	129	129	129	129	129	129	129	129	128	129	129	129	129	124	126	126	126	122	122	112	112	113	111	108	112	109	112	107	107	127	129	129	129	129	129	129	128	129	129	129	129
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	144	145	143	142	119	120	120	119	116	119	11																	

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
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	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	33	33	33
KNRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36	36	36
KNRG	HY03	23	23	24	24	24	24	24	24	24	24	24	23	23	24	24	24	23	24	23	23	25	24	35	35
KNYR	HY01	63	63	74	64	87	64	67	65	92	65	66	68	78	66	63	64	93	85	99	58	71	77	63	86
KNYR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	100	61	61	99	100	99	98
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	60	60	98	97	98	97	96
KNYR	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98	61	60	98	98	98	97	96
LPIA	HY01	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	22	22	22	22	22	22	22	22	22
LPIA	HY02	23	23	23	23	23	22	21	21	21	21	21	21	21	21	21	20	21	21	21	20	20	20	20	20
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	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	19	-1	-1	-1	-1
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	21	21	21	21	21	21
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	21	21	21	21	21	21
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30	30	30	30
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	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	0	0	0	0	0	0	0
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	0
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	0
TMGR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY04	42	41	64	85	85	42	44	42	63	42	43	46	60	42	40	41	74	71	84	39	50	57	38	66
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	89	-1	-1	-1	-1	-1	91	83
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	96	92	86	94	86	93	20
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		268	267	300	313	336	268	273	267	316	246	249	254	278	248	241	243	307	317	384	402	430	479	439	497
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
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
KDLS	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
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

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		
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	99	172	249	370	391	528	477	514	519	505	540	516	582	490	493	465	421	315	280	222	141	66	36	0	0	0	0	0	0	0	0	0
PCUF	CUFG	26	24	26	25	26	25	29	27	27	26	26	26	27	27	25	25	26	25	23	21	22	22	21	25	26	24	28	29	28	28	28	30	31	29	29	23	22	25	23	24	24	23	22	24	25	23	24		
PCUF	CUFK	26	27	25	26	26	27	25	27	26	26	25	28	26	26	26	26	28	27	28	26	27	25	26	28	26	25	25	26	27	27	27	24	26	29	26	26	26	26	26	24	25	25	25	26	24	27	23	25	
Total Co-Gen		52	51	51	51	52	52	54	54	53	52	51	54	53	53	53	51	53	53	53	49	48	47	48	49	51	51	49	54	56	55	55	52	56	60	55	55	49	48	51	47	49	49	48	48	48	52	46	49	
Total Gen		14941	14485	14152	13841	13696	13412	13371	13147	13065	12932	12860	12865	13023	13273	13290	13347	13700	14701	15312	15657	15966	16197	16426	16533	16489	16346	16266	16508	17033	17362	17334	17496	17477	17481	17234	16703	16171	15816	15944	16753	17182	17196	17091	16807	16568	16401	16152	15851	
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	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	-30	-30	-30	-30	-30	-30	-27	-28	-30	-28	-28	-29	-28	-28	-30	-28	-30	-28	-29	-30	-28	-30	-28	-31	-31	-30	-31	-30	-29	-30	-30	-28	-28	-29	-29	-29	-29	-29	-29	-29	-28	-28	-31	-30	-30	-28	
TIE-PLTG		33	78	57	39	26	33	35	51	14	43	44	54	11	53	34	-32	-87	-71	-93	-30	-44	-58	-30	-37	38	-25	-33	-24	-15	-11	12	-12	6	-31	37	29	53	-26	14	19	39	41	5	-17	11	12	11	53	
Interconnection		3	47	26	8	-5	2	5	21	-14	15	13	26	-17	25	5	-60	-115	-102	-120	-60	-72	-86	-58	-67	10	-53	-64	-54	-45	-42	-19	-42	-24	-61	8	0	24	-55	-15	-10	10	12	-23	-45	-19	-18	-19	25	
System Total		14938	14438	14126	13833	13701	13410	13366	13126	13079	12917	12847	12839	13040	13248	13285	13407	13815	14803	15432	15717	16038	16283	16484	16600	16479	16399	16330	16562	17078	17404	17353	17538	17501	17542	17226	16703	16147	15871	15959	16763	17172	17184	17114	16852	16587	16419	16171	15826	
SRev ST-Coal		188	299	342	346	353	417	445	647	740	752	780	782	742	487	487	435	426	415	223	165	182	160	168	163	285	223	203	191	247	207	249	229	342	311	285	409	529	492	317	349	396	391	445	433	433	377	375	457	
SRev CCGT-Gas		1235	1578	1900	2218	2379	2410	2399	2406	2366	2405	2398	2407	2397	2409	2402	2427	2184	1309	1117	924	740	714	665	578	666	758	924	724	514	377	441	514	574	819	1061	1248	1422	1537	1465	1004	624	618	624	831	959	949	952	1074	
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	
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 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 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
Syncon		853	853	853	853	853	853	853	853	702	853	853	853	853	853	853	853	853	702	853	853	853	666	666	853	666	853	853	313	464	464	464	277	277	277	277	464	313	464	464	277	277	277	277	277	277	277	277	277	277
Hydro		123	124	91	78	55	123	118	124	226	145	142	137	113	143	150	148	84	225	107	563	535	574	614	555	709	554	470	642	692	735	625	684	758	699	783	570	687	462	435	536	504	495	551	550	675	627	803	788	
S.Reserve Total		2573	3028	3360	3669	3814	3977	3989	4204	4208	4329	4347	4353	4279	4066	4066	4037	3721	2825	2474	2505	2310	2114	2113	2149	2326	2475	2537	2044	1917	1783	1866	1704	1951	2106	2493	2865	3125	3129	2855	2253	1801	1781	1897	2178	2431	2317	2494	2596	