

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,511 MW
Distillate	0 MW
Total TNB	2,511 MW
Total IPP	17,192 MW
Total Co-Gen	0 MW
Total System	23,146 MW

Generation Mix

Type	MWh	Percentage
Hydro	26,962	7.59 %
Gas	49,034	13.80 %
Total TNB	75,996	21.39 %
ST-Coal	199,002	56.01 %
LSS	2,236	0.63 %
Gas	75,775	21.33 %
Total IPP	277,013	77.97 %
Co-Gen	1,282	0.36 %
Total Co-Gen	1,282	0.36 %
Total Generation	354,291	99.72 %
PLTG	-295	-0.08 %
HVDC	-693	-0.20 %
Interconnection	-988	-0.28 %
Net Energy	355,279	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	18,135 MW
TNB Generation	3,861 MW
IPP Generation	13,095 MW
Spinning Reserve	1,128 MW
Maximum Demand	16,977 MW
Net Energy	355,279 MWH
Load Factor	87.20 %

Fuel Cost

Total Cost:	81,944,680.97 RM
Cost per Unit	23.09 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	319
Hydro	383
Syncon	350
Thermal	449
Total	1,501

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	51
TJGS	109
Total TNB	160
CBPS	55
NPRI	152
PGLA	112
Total IPP	318
Total Gas	478
Total Gas Required	478

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	14136	13473	12961	12622	12303	12191	12372	12518	13167	14797	15562	15946	15870	15723	16325	16818	16965	16779	15679	15610	16514	16196	15611	15209

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, February 3, 2022 5:02:47 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	355	355	354	357	354	352	356	354	332	303	303	306	339	353	456	513	506	506	504	532	557	652	693	685	656	657	654	685	699	697	696	697	695	697	698	644	643	646	696	696	697	693	605	537	467	455	457	456	
JMAH	U002	352	354	354	356	355	355	355	352	336	305	303	305	345	354	457	511	506	505	506	536	555	656	699	692	655	657	653	696	698	694	696	696	694	696	693	643	647	645	693	696	698	696	606	527	461	454	453	454	
JMHE	U001	932	879	879	854	849	851	851	780	781	779	780	780	779	780	781	778	780	775	781	777	780	778	779	781	779	779	781	780	829	861	931	930	937	975	976	975	975	976	977	979	970	976	974	969	904	898	846	801	
JMHE	U002	933	877	877	850	849	849	851	782	781	781	778	779	777	781	780	781	779	777	778	779	781	780	782	782	779	781	781	782	874	861	930	930	951	979	981	978	978	980	984	974	980	983	972	902	900	846	801		
JMJG	U001	542	545	548	551	549	550	544	547	547	545	546	546	546	546	546	601	596	598	598	653	671	597	671	680	668	670	666	670	674	669	669	669	673	671	673	670	671	671	668	672	669	672	672	672	671	672	672	670	
JMJG	U002	542	548	548	549	552	546	548	549	551	549	549	549	549	549	549	603	597	599	660	673	670	673	673	673	673	678	671	677	673	674	671	667	676	671	672	672	671	672	673	675	674	672	668	673	671	673	673	671	
JMJG	U004	931	889	881	853	851	854	837	804	788	787	787	787	787	787	787	787	785	786	785	786	785	785	785	786	785	785	786	831	864	895	930	934	975	978	975	975	972	976	974	975	976	973	921	901	887	826			
JMJG	U005	928	879	879	854	848	852	821	801	801	801	801	801	801	801	801	803	800	801	798	801	801	801	801	801	801	801	799	804	867	864	923	932	944	983	978	982	979	983	982	983	977	980	980	976	897	902	857	800	
PKLG	U003	283	283	281	283	257	152	147	146	147	148	148	147	148	149	148	148	209	273	279	281	281	279	278	278	278	278	278	277	278	280	280	281	282	277	275	276	275	276	276	277	277	275	274	279	278	279	279		
PKLG	U006	449	447	446	449	449	446	448	445	446	446	447	396	357	358	433	448	449	449	446	446	448	450	441	445	450	449	447	447	450	447	449	446	444	449	447	448	446	443	441	449	445	446	450	449	449	451	448	448	
TBIN	U001	500	501	500	500	500	500	500	500	500	500	500	500	500	500	500	552	552	552	602	635	676	691	691	674	668	668	690	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	
TBIN	U002	503	502	500	500	500	500	500	500	500	500	500	500	500	500	500	553	553	553	606	638	695	695	695	679	673	673	690	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695	
TBIN	U003	505	502	502	502	502	502	502	502	502	502	502	502	502	502	502	552	552	552	601	635	683	690	690	690	670	670	685	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690
Total ST-Coal		7755	7561	7549	7458	7415	7309	7260	7062	7012	6946	6944	6898	6930	6960	7240	7364	7615	7660	7727	8058	8238	8504	8679	8678	8568	8546	8526	8669	8949	8987	9216	9254	9306	9449	9447	9339	9336	9338	9438	9461	9431	9439	9262	9101	8695	8658	8492	8280	
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	370	371	367	370	374	372	376	376	375	374	371	377	377	375	375	370	370	378	376	375	376	374	370	371	370	376	373	371	367	370	366	367	368	368	369	372	371	375	371	362	363	364	364	360	359	365	358	366	
EMPP	BLK1	711	705	702	710	706	710	711	707	710	710	708	711	710	715	710	708	707	709	710	710	710	709	710	711	705	711	709	711	711	712	706	712	704	710	708	713	712	709	710	713	705	709	712	708	707	710	707	709	
GLGR	GT01	105	104	75	68	68	68	68	66	68	68	68	69	69	69	67	68	101	100	100	101	101	100	100	100	99	100	100	100	99	100	99	101	99	100	99	99	100	100	100	100	99	100	99	100	98	100	100	99	
GLGR	GT02	105	104	73	69	68	68	68	68	68	68	68	68	68	68	68	68	102	101	100	100	100	101	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
GLGR	ST1C	93	93	82	71	71	71	71	71	71	71	71	71	71	71	71	71	88	91	91	92	91	91	91	91	92	91	92	92	92	92	92	92	92	92	92	91	91	91	91	91	91	91	91	91	91	91			
NPRI	BLK1	514	508	505	512	512	514	514	517	514	516	511	517	517	520	516	511	518	516	514	515	515	514	514	504	514	514	511	510	515	504	514	503	511	511	514	511	510	515	512	508	509	514	508	508	514	508	509		
NPRI	BLK2	518	512	509	517	514	520	520	522	520	513	520	521	523	520	514	514	520	519	516	518	518	526	518	509	517	517	516	513	520	508	517	509	514	516	515	514	517	520	516	510	514	515	514	511	518	511	512		
PCGP	PGRG	262	261	261	262	262	262	263	262	260	261	260	262	264	265	262	263	263	261	402	600	603	603	600	602	590	502	502	600	597	606	591	601	592	598	530	262	261	260	261	263	261	261	260	261	261	262	260	261	
PGLA	GT11	218	217	215	218	218	219	220	220	219	219	217	220	220	220	219	217	220	218	218	218	218	217	218	214	216	217	216	214	218	214	216	213	215	216	217	218	218	219	218	216	218	218	216	217	218	216	217		
PGLA	GT12	222	220	220	222	221	223	223	223	223	223	223	223	224	225	223	221	222	223	221	222	222	221	218	221	222	221	219	222	218	221	219	222	222	222	223	222	223	221	221	223	222	221	223	222	221	223	221	221	
PGLA	ST10	237	237	237	237	238	238	238	239	237	238	239	238	238	238	237	238	240	239	239	240	240	238	241	240	242	241	242	240	243	241	243	243	241	241	241	239	238	238	239	239	237	239	237	236	239	238	238		
SPGP	BLK1	533	403	401	397	358	360	358	361	359	361	361	361	359	361	360	358	360	500	719	712	710	713	711	711	714	599	597	597	600	596	598	597	595	596	597	501	359	360	600	717	716	650	651	650	649	650	650		
SPGP	BLK2	533	402	358	360	358	360	363	358	362	360	361	357	362	360	363	360	500	716	720	715	718	716	719	721	720	721	717	721	711	714	712	716	709	598	529	362	360	600	648	649	650	650	647	648	648				
TJGS	GT1A	228	231	224	229	228	227	226	232	228	227	227	229	228	228	230	228	227	228	229	227	229	227	227	227	227	227	227	224	224	229	226	226	226	225	228	225	227	225	226	223	224	223	225	225	226	226	228	223	
TJGS	GT1B	216	213	209	216	213	214	212	213	216	217	213																																						

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
KNRG	HY02	22	22	22	22	23	23	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
KNRG	HY03	21	21	21	21	21	21	34	34	35	35	34	22	34	34	34	34	34	34	34	34	34	34	34	34
KNYR	HY01	79	92	86	77	98	99	84	100	71	95	66	84	99	93	78	63	63	100	100	99	96	98	95	97
KNYR	HY02	98	98	97	98	99	59	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	99	98	98	99	98	99	100	97
KNYR	HY03	88	87	87	87	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	97	97	97	97	97	97	97	97
KNYR	HY04	81	98	86	77	94	97	86	101	61	97	62	83	97	80	71	61	58	100	101	100	99	97	67	96
LPIA	HY01	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	27	27	27	27	27	27
LPIA	HY02	22	22	21	22	22	22	22	22	22	22	22	22	22	21	23	23	23	23	0	0	0	0	0	0
MNOR	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
PGAU	HY01	110	110	80	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	3	3	3	4	4	4
PGAU	HY03	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGAU	HY04	112	110	79	36	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	21	21	21	21	21
SIHY	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
SIHY	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
SIHY	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	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	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
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	84	83	82	84	84	34	55	87	49	74	45	55	75	66	52	43	40	86	86	82	86	85	56	81
TMGR	HY02	84	83	82	84	84	33	0	0	0	0	-1	-1	-1	-1	-1	34	90	90	90	90	90	90	90	90
TMGR	HY03	79	79	78	80	0	0	0	0	0	0	-1	-1	-1	-1	-1	31	82	82	82	82	78	77	78	78
TMGR	HY04	68	85	77	68	85	86	54	84	46	75	43	54	72	65	55	44	76	82	81	81	80	81	80	81
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	183	149	94	128	107	96	96	91	98
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	6	6	5	5	6	5	6	6	6	5	6	5	6	6	6	6	6	6	6	6	5	5	6	6
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		1134	1155	1062	920	774	637	544	639	493	608	481	525	609	566	485	440	750	1209	1176	1115	1170	1169	1074	1108
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
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
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	29	29	29	28	29	32	29	30	29	31	28	29	32	32	28	28	29	29	28	26	26	25	24	25
PCUF	CUFK	27	27	26	27	25	27	26	23	26	24	28	25	25	26	25	25	27	26	26	26	27	27	28	26
Total Co-Gen		56	56	55	55	54	59	55	53	55	55	56	54	57	58	53	53	56	55	54	52	52	52	51	53

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 Gen		14052	13595	13346	13133	12894	12673	12529	12436	12228	12287	12131	12156	12276	12282	12457	12510	13106	14054	14708	15163	15444	15764	15883	15973	15820	15736	15634	16038	16438	16725	16866	16852	17031	17007	16760	16165	15725	15486	15627	16439	16473	16445	16183	15982	15570	15375	15165	14882	
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	0	0
TIE-HVDC		-29	-28	-28	-30	-31	-29	-29	-28	-28	-29	-29	-29	-28	-28	-30	-30	-28	-28	-29	-29	-30	-30	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-30	-29	-30	-29	-29	-29	-29		
TIE-PLTG		-55	-116	-99	-51	-37	-76	-65	13	-47	-39	-31	-40	-68	-13	-33	-21	-31	-52	-61	-101	-89	-73	-34	-57	-21	-37	-60	70	141	70	76	13	95	59	10	75	74	81	46	27	-12	18	16	-13	-12	-2	-15	-16	
Interconnection		-84	-144	-127	-81	-67	-105	-93	-15	-75	-68	-60	-69	-96	-42	-61	-52	-61	-80	-89	-130	-118	-102	-63	-86	-50	-66	-89	41	113	42	48	-16	66	30	-19	47	46	52	17	-3	-41	-11	-13	-42	-41	-32	-44	-45	
System Total		14136	13739	13473	13214	12961	12778	12622	12451	12303	12355	12191	12225	12372	12324	12518	12562	13167	14134	14797	15293	15562	15866	15946	16059	15870	15802	15723	15997	16325	16683	16818	16868	16965	16977	16779	16118	15679	15434	15610	16442	16514	16456	16196	16024	15611	15407	15209	14927	
SRev ST-Coal		768	888	893	882	912	914	918	915	915	916	915	962	962	963	929	912	911	914	902	818	764	626	464	479	582	608	628	493	461	471	387	363	311	168	170	278	281	279	179	156	186	178	307	321	587	599	592	602	
SRev CCGT-Gas		860	1144	1287	1267	1316	1299	1297	1285	1299	1289	1317	1288	1287	1269	1288	1317	1317	921	349	167	162	157	169	167	209	279	286	194	210	174	238	192	246	183	257	743	910	1222	1215	746	605	596	647	668	673	644	672	662	
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
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		500	500	500	651	752	752	853	853	853	853	876	1027	1027	1027	1027	651	464	464	464	464	464	464	464	464	464	464	464	464	313	313	313	313	126	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313	
Hydro		366	195	288	279	88	225	130	35	181	66	193	298	63	106	187	232	318	51	84	275	370	522	466	405	472	408	468	452	523	403	333	368	425	464	521	458	540	432	365	191	266	311	344	364	366	260	277	356	
S.Reserve Total		2494	2727	2968	3079	3068	3190	3198	3088	3248	3124	3278	3424	3339	3365	3431	3488	3197	2350	1799	1724	1760	1618	1563	1515	1727	1759	1846	1603	1507	1361	1271	1236	1108	1128	1261	1792	2044	2246	2072	1406	1370	1398	1611	1666	1939	1816	1854	1933	