

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,902 MW
Distillate	0 MW
Total TNB	1,902 MW
Total IPP	19,481 MW
Total Co-Gen	0 MW
Total System	25,071 MW

Generation Mix

Type	MWh	Percentage
Hydro	14,344	3.78 %
Gas	51,829	13.64 %
Total TNB	66,173	17.42 %
ST-Coal	221,590	58.32 %
ST-Gas	176	0.05 %
ST-Oil	228	0.06 %
LSS	3,232	0.85 %
Gas	86,790	22.84 %
Total IPP	312,016	82.12 %
Co-Gen	909	0.24 %
Total Co-Gen	909	0.24 %
Total Generation	379,098	99.77 %
PLTG	-159	-0.04 %
HVDC	-696	-0.18 %
Interconnection	-855	-0.23 %
Net Energy	379,953	100.00 %

Maximum Demand Record

Date: 3/29/2022	18,840 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	15:30:00 Hour
Total Set On Bus	18,959 MW
TNB Generation	3,557 MW
IPP Generation	14,110 MW
Spinning Reserve	1,243 MW
Maximum Demand	17,769 MW
Net Energy	379,953 MWH
Load Factor	89.10 %

Fuel Cost

Total Cost:	98,992,635.24 RM
Cost per Unit	26.11 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	426
Hydro	534
Syncon	220
Thermal	300
Total	1,480

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Cloudy	28

Gas Usage

Station	(mmscfd)
GLGR	32
TJGS	138
Total TNB	171
CBPS	47
EMPP	190
NPRI	157
PCGP	72
PGLA	48
PLPS	60
SPGP	178
PKLG	2
Total IPP	755
Total Gas	926
Total Gas Required	928

Alternate Fuel Usage

Station	(mmscfd)
PKLG	2
Total	2

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	15541	14660	14337	13916	13579	13483	13670	13478	14020	15742	16563	17198	17025	16997	17663	17729	17630	17040	16218	16188	16943	17107	16628	16347

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Sunday, May 8, 2022 11:12:19 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	706	706	706	707	704	705	707	706	703	703	706	707	707	705	653	655	659	696	698	695	695	696	694	700	696	695	696	696	696	695	696	694	655	607	607	553	605	696	694	698	697	695	697	696	695	655	604	
JMAH	U002	706	706	706	706	704	705	707	705	704	704	705	707	705	699	702	653	654	658	695	698	702	695	692	695	697	694	692	695	696	696	697	696	696	695	657	605	604	556	604	692	694	697	699	694	694	695	655	604
JMHE	U002	977	979	930	879	877	883	847	850	849	850	852	850	850	847	850	851	977	982	979	979	979	976	976	976	980	975	975	976	977	978	982	978	974	981	986	977	983	980	978	977	978	981	980	980	978	978	980	
JMJG	U001	674	668	673	673	671	671	671	671	670	671	675	675	672	676	669	672	671	672	673	669	667	671	672	672	672	672	671	670	674	669	671	667	670	680	648	652	637	602	598	598	596	596	599	598	594	615	687	621
JMJG	U002	559	557	559	561	562	562	559	561	558	558	559	562	559	562	559	560	561	563	560	559	568	562	603	648	660	673	673	673	674	672	675	675	657	651	640	669	674	674	674	671	650	651	604	601	595	602		
JMJG	U003	662	662	669	660	662	655	662	668	667	664	666	665	661	664	669	666	666	661	668	670	670	674	668	677	668	677	672	665	662	661	667	660	645	642	643	662	666	668	668	659	650	651	593	600	593	601		
JMJG	U004	977	977	952	911	881	879	884	854	853	852	854	853	855	853	851	864	920	974	976	976	975	976	977	975	974	973	973	975	977	975	974	977	974	975	977	977	978	977	973	977	971	972	969	970	971	973		
JMJG	U005	977	972	930	895	879	880	880	849	846	848	850	851	850	851	852	850	873	983	978	977	971	980	975	978	975	979	974	972	972	972	973	976	969	972	973	971	971	972	972	971	971	972	971	972	971	972	974	
PKLG	U003	278	204	147	148	149	149	149	150	149	150	150	149	149	149	148	151	148	149	150	149	149	150	150	146	154	205	207	207	237	205	147	148	150	151	150	149	150	150	151	149	148	150	150	150	151	151		
PKLG	U004	270	193	156	153	156	151	153	154	151	150	155	153	154	155	153	150	151	153	153	153	150	153	153	150	153	150	147	200	206	203	235	208	207	161	147	152	154	152	151	151	150	150	146	149	150	151	151	154
PKLG	U005	462	413	322	261	272	268	268	268	270	268	269	271	268	269	269	267	272	269	267	268	269	269	268	269	267	270	269	270	269	269	267	272	268	269	269	269	268	269	270	267	262	215	154	0	0	0	0	
PKLG	U006	446	449	445	410	336	286	269	269	270	269	268	269	271	267	269	271	269	268	268	269	269	268	269	269	305	387	436	446	444	409	402	404	387	306	268	269	268	267	266	269	268	269	268	269	269	269	269	
TBIN	U002	221	221	221	221	630	635	635	635	635	635	635	702	702	702	702	651	651	653	693	691	699	710	710	710	710	710	710	710	710	710	690	690	690	605	599	599	605	693	695	695	695	695	695	695	695	618		
TBIN	U003	703	703	703	703	700	700	700	700	700	700	700	702	702	702	702	652	652	654	689	688	689	693	693	693	693	693	693	693	693	693	691	691	691	600	605	605	608	690	691	691	691	691	691	691	691	620		
TBIN	U004	941	939	938	916	881	886	883	853	853	851	853	854	852	851	853	852	868	937	940	940	936	938	938	941	936	940	937	936	939	940	931	939	933	938	939	942	938	938	940	939	939	939	938	939	937	938	940	938
Total ST-Coal		9559	9349	9057	8804	9064	9015	9010	8890	8882	8873	8890	8972	8955	8959	8952	8751	8804	9173	9387	9388	9384	9404	9409	9406	9447	9493	9538	9726	9785	9788	9853	9752	9674	9624	9462	9116	9041	8953	9067	9415	9407	9403	9319	9259	8994	9020	9002	8709
PKLG	U001	151	151	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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-Oil		151	151	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PKLG	U001	0	0	0	151	131	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	151	131	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	221	230	226	231	226	222	229	232	222	221	222	223	223	217	223	223	224	223	224	333	357	365	362	349	358	362	363	362	357	353	360	360	364	364	350	360	360	367	315	310	333	357	360	359	358	359	314	355
EMPP	BLK2	631	574	550	587	708	661	560	607	510	545	484	456	532	536	435	485	557	443	525	707	710	709	713	708	691	709	709	704	711	704	694	711	708	709	699	724	709	720	710	704	709	708	714	710	708	709	711	708
EMPP	BLK3	630	575	550	587	552	502	421	466	510	544	482	457	533	537	434	488	557	444	524	709	710	710	713	707	691	709	709	704	711	704	693	710	708	708	699	725	709	720	709	704	709	708	713	710	708	710	710	707
GLGR	GT02	108	108	107	108	107	107	108	108	108	107	108	108	108	107	108	108	108	108	108	108	108	108	108	108	108	107	108	108	107	107	107	107	106	107	107	108	107	107	108	108	108	108	108	107	107	108	108	
GLGR	ST1C	47	47	47	47	46	47	47	47	46	46	47	46	46	46	46	46	46	46	47	47	47	46	47	46	46	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47		
NPRI	BLK1	513	522	515	520	515	513	519	323	310	309	306	308	309	398	382	397	499	515	515	514	514	513	515	514	500	511	509	513	514	508	500	515	512	515	503	518	511	518	514	508	514	515	518	514	512	514	513	510
NPRI	BLK2	515	524	520	524	520	516	524	529	518	518	515	518	516	517	503	517	521	517	519	517	518	516	522	520	505	514	513	515	517	511	503	518	516	521	507	527	518	525	478	501	527	527	530	529	525	524	512	515
PCGP	PGRG	261	271	261	269	262	262	266	280	261	263	261	262	261	263	263	262	267	347	454	501	603	601	606	604	584	598	597	600	603	593	582	602	601	603	586	622	601	617	603	503	601	607	604	600	601	599	599	
PGLA	GT12	165	169	166	168	167	166	168	172	167	166	165	165	166	166	166	166	167	166	167	166	165	167	216	182	164	163	165	165	163	208	166	165	165	162	170	166	169	167	165	169	167	169	167	169	181	179	179	
PGLA	ST10	94	94	93	94	94	93	93	95	93	93	93	93	93	93	93	93	94	93	94	94	94	95	112	108	94	94	94	94	94	111	94	94	95	93	94	94	94	95	94	94	94	94	94	102	99	98	98	
PLPS	GT11	143	146	143	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	106	139	137	139	140	141	141	142	142	141	141	142	143	146	144	
PLPS	GT13	141	144	141																																													

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
CEND	HY04	7	7	8	7	8	8	7	8	8	7	8	7	7	7	7	7	7	7	7	7	7	7	7	7
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0
HTRG	HY02	0	0	0	0	0	0	0	0	0	0	62	62	63	62	62	62	62	62	62	63	0	0	0	0
HTRG	HY03	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
HTRG	HY04	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
KNRG	HY01	21	21	21	0	0	0	0	0	0	0	0	0	0	0	0	22	34	34	34	34	34	34	34	34
KNRG	HY02	20	22	21	22	22	21	22	21	22	21	21	22	20	21	22	38	38	38	38	37	37	37	37	37
KNRG	HY03	22	23	23	24	23	22	23	24	23	22	22	23	23	23	37	37	37	36	36	36	36	36	36	36
LPIA	HY01	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
LPIA	HY02	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4
PGAU	HY03	20	21	21	21	20	21	21	21	21	20	21	21	21	21	21	21	21	21	21	21	21	82	20	21
PGAU	HY04	21	21	20	21	21	21	20	21	21	21	20	21	21	21	21	21	21	21	21	21	21	21	21	21
SIHY	HY02	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30	30
SIHY	HY03	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50
SYPS	HY01	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	25	25	25	25	25	25	25
SYPS	HY03	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	17	17	17	25	25	25
SYPS	HY04	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	17	17	17	25	25	25
TMGR	HY01	44	85	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	75	82	31	33	34	34
TMGR	HY02	36	36	36	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	35	37	36	37	86	45	43	46	45	88
TMGR	HY03	41	58	41	69	41	41	47	81	41	41	41	41	41	37	41	41	41	41	41	41	41	41	41	41
TMGR	HY04	32	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UJLI	HY01	92	98	96	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	92	89	85	81	90	89
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	90	93	92	88	83	92	90
UPIA	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
UPIA	HY02	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Total Hydro		584	509	488	279	250	248	254	291	247	249	246	247	246	248	243	250	256	393	464	523	532	597	707	723
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
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
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	23	19	18	19	20	20	21	20	20	20	19	19	20	21	19	19	19	18	16	15	18	18	19	18
PCUF	CUFK	26	8	4	5	5	5	7	6	6	4	6	5	4	7	3	3	5	5	6	5	5	8	24	27

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 Co-Gen		49	27	22	24	25	25	28	26	26	24	25	24	24	28	24	22	27	24	25	24	23	24	39	45	45	45	43	43	46	45	46	49	49	49	51	52	48	51	51	52	51	50	50	51	50	48	49	52
Total Gen		15518	14949	14618	14154	14286	14070	13845	13687	13518	13575	13460	13498	13630	13738	13483	13440	13954	14996	15633	16195	16513	16900	17149	17241	17026	16848	17019	17479	17708	17713	17747	17716	17640	17452	17038	16321	16217	16100	16182	16396	16886	17072	17037	17041	16562	16626	16297	15911
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
TIE-HVDC		-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-28	-29	-29	-28	-28	-29	-31	-29	-28	-30	-30	-29	-30	-29	-30	-29	-30	-28	-30	-30	-28	-28
TIE-PLTG		5	-52	-13	-77	-21	-15	-42	-32	-32	-4	6	-22	-11	-16	34	15	-37	-32	-80	-10	-21	4	-21	28	29	-8	50	85	74	-16	47	-25	38	21	28	-100	27	-42	24	5	-27	2	-40	-27	-36	30	-22	12
Interconnection		-23	-81	-42	-106	-51	-44	-71	-60	-61	-33	-23	-51	-40	-45	5	-15	-66	-61	-109	-39	-50	-24	-49	0	1	-37	22	56	45	-45	18	-53	10	-8	-2	-129	-1	-72	-6	-24	-57	-27	-70	-55	-66	0	-50	-16
System Total		15541	15030	14660	14260	14337	14114	13916	13747	13579	13608	13483	13549	13670	13783	13478	13455	14020	15057	15742	16234	16563	16924	17198	17241	17025	16885	16997	17423	17663	17758	17729	17769	17630	17460	17040	16450	16218	16172	16188	16420	16943	17099	17107	17096	16628	16626	16347	15927
SRev ST-Coal		124	209	316	479	545	541	539	562	565	574	566	488	502	498	499	772	752	505	290	290	294	275	271	272	230	313	267	305	265	258	254	297	319	321	460	627	665	559	550	302	306	307	325	312	360	341	436	675
SRev CCGT-Gas		2164	2078	2095	2095	1959	2063	2222	2295	2412	2346	2476	2520	2370	2272	2511	2374	1977	1512	1241	830	616	366	258	207	343	512	565	553	345	351	290	275	273	434	554	660	594	532	616	772	504	363	321	257	271	231	456	535
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-Oil		-1	-1	-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	-1	19	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
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
Syncon		313	401	401	676	676	676	676	676	676	676	676	676	676	676	676	676	676	550	462	374	374	374	374	374	374	374	187	0	0	0	6	6	6	6	6	281	588	588	401	401	401	214	214	214	401	401	401	401
Hydro		708	520	541	348	377	379	373	336	380	378	381	380	381	379	384	377	371	460	477	506	497	552	442	426	576	560	673	694	733	744	755	665	657	565	676	639	380	435	534	497	266	401	394	395	407	407	494	511
S.Reserve Total		3308	3207	3348	3597	3576	3678	3810	3869	4033	3974	4099	4064	3929	3825	4070	4199	3776	3027	2470	2000	1781	1574	1352	1286	1530	1766	1699	1552	1343	1353	1305	1243	1255	1326	1696	2207	2227	2114	2101	1972	1477	1285	1254	1178	1439	1380	1787	2122