

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,038 MW
Distillate	0 MW
Total TNB	2,038 MW
Total IPP	19,735 MW
Total Co-Gen	0 MW
Total System	26,052 MW

Generation Mix

Type	MWh	Percentage
Hydro	14,760	3.78 %
Gas	33,251	8.51 %
Total TNB	48,011	12.28 %
ST-Coal	260,543	66.65 %
LSS	4,432	1.13 %
Gas	76,290	19.51 %
Total IPP	341,265	87.30 %
Co-Gen	1,129	0.29 %
Total Co-Gen	1,129	0.29 %
Total Generation	390,405	99.87 %
PLTG	141	0.04 %
HVDC	-668	-0.17 %
Interconnection	-527	-0.13 %
Net Energy	390,932	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:	16:30:00 Hour
Total Set On Bus	19,718 MW
TNB Generation	2,813 MW
IPP Generation	15,672 MW
Spinning Reserve	1,184 MW
Maximum Demand	18,601 MW
Net Energy	390,932 MWH
Load Factor	87.57 %

Fuel Cost

Total Cost:	101,295,671.39 RM
Cost per Unit	25.95 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,178
Hydro	489
Syncon	384
Thermal	165
Total	2,216

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Rainy	25

Gas Usage

Station	(mmcsfd)
GLGR	41
TJGS	46
Total TNB	87
CBPS	42
EMPP	157
NPRI	134
PCGP	54
PGLA	27
PLPS	115
SPGP	144
Total IPP	673
Total Gas	760
Total Gas Required	760

Alternate Fuel Usage

Station	(mmcsfd)
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	15979	15256	14734	14390	14044	14013	14128	13724	14216	15822	16751	17301	17268	17162	18066	18500	18545	18068	17217	16806	17344	17366	17132	16691

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, May 9, 2022 10:38:01 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Thursday

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	674	705	705	711	704	701	706	704	606	607	556	555	584	656	606	555	633	655	655	695	694	695	694	696	697	696	694	696	695	697	694	696	696	696	696	697	697	697	695	696	695	697	696	695	695	696	695	697	
JMAH	U002	708	708	707	705	610	504	504	506	504	504	508	506	570	650	605	556	653	656	657	699	696	695	694	696	696	697	696	694	694	695	697	694	696	696	694	695	695	695	696	694	698	696	698	697	697	695	696	696	694
JMHE	U001	975	976	976	954	952	953	925	900	901	900	899	901	900	898	900	904	896	973	980	980	974	979	977	976	975	977	973	976	979	976	976	977	975	977	975	977	974	978	978	975	980	980	979	977	980	977	976	976	
JMHE	U002	980	980	978	951	952	955	901	899	902	899	902	901	904	897	903	902	897	960	982	982	978	985	977	980	979	984	981	979	981	978	980	981	978	981	979	981	979	977	975	972	979	975	976	980	985	981	978	982	
JMJG	U001	662	645	593	581	561	568	568	568	567	568	567	566	568	567	565	567	585	645	645	672	678	681	674	683	676	677	676	678	675	677	678	675	678	675	675	677	676	680	678	677	673	675	677	677	678	675	675		
JMJG	U002	662	647	590	585	573	572	572	573	568	568	568	570	568	570	570	570	585	660	649	677	679	678	679	677	678	672	683	679	676	678	678	676	681	678	686	680	682	678	678	681	678	677	682	679	682	672	678	679	
JMJG	U003	656	642	590	579	563	568	565	572	568	564	569	565	561	563	564	562	582	632	640	672	667	669	681	673	680	678	675	672	679	635	612	596	594	592	591	593	596	612	672	668	663	671	667	667	680	665	661	662	
JMJG	U004	931	928	928	933	930	932	906	906	900	902	900	906	903	900	902	904	904	931	931	929	932	933	933	929	929	932	931	930	933	929	933	934	931	932	933	930	933	933	933	931	934	931	930	932	929	932	932	931	
JMJG	U005	977	972	948	948	949	952	898	900	901	903	902	901	902	902	902	900	900	946	972	977	977	978	975	977	972	971	972	975	977	976	973	976	973	976	973	973	971	972	969	971	973	970	972	977	976	972	972	974	970
PKLG	U003	180	148	149	149	149	150	149	148	149	148	150	150	150	149	149	150	148	205	206	247	256	257	255	257	255	257	253	254	256	253	256	255	255	254	255	257	255	255	257	257	256	253	247	249	251	253	252	255	
PKLG	U004	186	148	151	151	153	153	156	151	151	153	156	154	153	152	148	154	152	206	208	243	270	273	269	270	269	265	271	270	269	267	269	269	269	273	271	271	273	274	272	270	270	265	270	270	275	273	271	279	
PKLG	U005	391	297	269	268	270	268	269	269	267	271	268	268	269	268	269	268	269	292	358	377	443	470	474	466	464	466	465	466	470	468	468	466	466	466	466	466	465	468	470	469	468	467	456	467	467	465	467	466	461
TBIN	U001	697	704	698	701	685	648	649	649	649	649	650	649	679	689	592	570	652	700	697	695	699	696	696	699	699	698	700	699	698	700	697	698	700	698	699	698	694	699	699	698	698	701	699	699	698	699	704	700	
TBIN	U002	701	706	707	701	692	651	652	653	653	652	652	652	673	690	599	572	649	713	702	702	701	700	701	701	699	702	701	704	706	699	701	700	705	700	701	702	701	700	698	701	699	699	700	698	699	700	701	701	
TBIN	U003	705	697	700	701	697	658	655	654	655	657	653	653	665	690	610	573	629	701	700	703	699	702	697	703	698	703	701	699	701	700	697	702	703	699	702	697	698	702	700	701	699	702	699	701	700	701	700	701	
TBIN	U004	933	933	933	932	932	931	917	904	902	901	903	904	905	903	904	903	899	934	935	934	931	933	931	930	935	934	934	934	932	934	931	933	933	933	932	934	934	935	934	932	934	931	933	933	932	934	931	936	
Total ST-Coal		110181083610622105501037210164 9992 9956 9843 9846 9803 9801 9954 10144 9788 9610 1003310809109171118411274113241130911311113031130511307113071131911263112381123111229112221123111223112281125711304112911129511290112951129411315112961129011299																																																
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	209	216	223	223	216	226	223	223	225	229	222	226	212	211	219	220	217	220	224	220	220	220	219	215	215	223	223	226	222	282	354	359	319	219	221	288	360	360	356	360	360	362	357	354	226	223	224		
EMPP	BLK2	351	369	376	376	374	384	379	376	376	374	383	378	388	361	365	375	370	366	376	375	451	409	453	487	399	407	411	505	713	709	713	653	706	710	654	643	665	688	647	695	716	656	646	708	648	691	566	427	
EMPP	BLK3	351	369	375	376	374	385	379	375	376	374	382	378	386	362	364	375	369	397	375	373	449	411	454	486	399	406	423	504	713	709	715	653	706	710	653	643	665	688	647	696	715	656	646	708	648	691	566	426	
GLGR	GT01	106	107	107	107	106	107	96	66	67	67	68	69	66	66	68	67	66	68	69	66	66	67	67	66	65	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
GLGR	GT02	107	107	106	107	107	107	95	67	68	68	68	67	68	68	67	68	68	68	68	67	67	67	67	67	95	105	104	105	107	106	105	105	106	107	107	107	107	107	108	107	108	108	109	109	109	108	109		
GLGR	ST1C	97	98	98	98	98	98	93	73	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	75	45	45	46	47	45	46	46	47	46	47	46	47	46	47	47	47	47	47	47	47	47			
NPRI	BLK1	499	514	522	521	514	521	520	514	520	520	524	521	526	506	506	517	509</																																

Daily MW Generation on Thursday

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	63	63	63	63	1	0	0	0	0	0	0	0	0	0	0	0	0	63	63	1	0	0	0	0	0	
HTRG	HY03	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	
KNRG	HY01	34	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	34	35	35	21	21	21	21	
KNRG	HY02	37	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	37	37	37	25	24	24	24	
KNRG	HY03	36	36	23	23	22	24	24	23	23	23	24	24	24	22	23	36	36	36	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	22	22	22	22	21	21	
LPIA	HY02	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	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	3	
PGAU	HY03	113	21	21	21	21	21	21	21	21	21	21	21	22	22	21	21	22	21	21	21	21	21	21	82	113	
PGAU	HY04	110	21	21	21	20	20	20	21	21	20	21	20	21	21	21	21	21	21	21	21	21	20	81	111	111	
SIHY	HY02	50	50	50	50	50	50	50	50	50	30	0	0	0	0	0	0	0	30	30	30	30	30	30	30	30	
SIHY	HY03	50	50	50	50	50	50	50	50	50	30	0	0	0	0	0	0	0	30	30	30	30	30	30	30	30	
SYPS	HY01	23	23	23	23	23	23	23	23	23	17	0	0	0	0	0	0	0	17	17	17	17	17	17	17	25	
SYPS	HY03	24	24	24	24	24	23	23	23	23	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	
SYPS	HY04	24	24	24	24	24	23	23	23	23	17	0	0	0	0	0	0	0	17	17	17	17	17	17	17	0	
TMGR	HY01	37	42	86	54	42	85	85	42	53	43	52	70	86	40	42	43	44	45	43	59	42	43	52	43	43	
TMGR	HY02	28	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	87	87	34	34	34	34	34	34	34	
TMGR	HY03	75	32	0	0	0	0	0	0	0	0	0	0	0	30	83	83	83	30	30	30	30	28	30	30	30	
TMGR	HY04	77	32	34	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	31	33	34	34	34	34	34	34	
UJLI	HY01	76	85	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	92	94	92	92	83	89	89	
UJLI	HY02	77	88	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	97	95	95	95	84	92	-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	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	5	
Total Hydro		1132	859	613	482	406	449	449	406	417	406	359	266	281	211	214	215	215	337	384	490	566	461	431	419	444	
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	0	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	5	12	12	9	14	12	25	25	11	18	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	12	17	21	24	27	30	32	32	32	25	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	13	18	22	24	25	32	32	32	32	30	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	10	21	10	30	33	30	29	30	42	43	17	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	9	14	8	18	21	13	26	8	31	30	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	17	23	29	33	41	39	44	45	45	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	13	18	23	16	11	21	20	23	26	26	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	13	23	26	24	19	24	42	40	35	22	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	18	23	28	33	37	41	40	38	21	
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	10	13	17	19	11	25	29	4	23	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	14	19	23	26	30	15	30	30	30	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	14	20	26	22	25	21	48	42	50	50	
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	7	18	33	53	69	90	22	27	4	0	0	85	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	9	20	27	34	39	47	28	48	24	31	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	8	13	16	19	29	31	33	21	30	42	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	8	12	17	14	16	11	17	18	29	29	
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	19	27	30	30	30	30	26	30	30	30	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	28	89	183	313	373	453	425	440	475	477	515	489	573	578
PCUF	CUFG	27	28	26	27	28	28	28	28	28	28	28	28	28	27	28	28	28	28	28	28	27	28	28	28	28	27
PCUF	CUFK	0	0	0	0	0	1	1	1	5	16	24	24	23	22	23	24	24	23	24	24	24	23	24	24	24	23
Total Co-Gen		27	28	26	27	28	29	29	29	33	44	52	52	52	50	51	51	52	51	48	52	51	52	51	52	51	52

Daily MW Generation on Thursday

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		16001	15627	15205	15005	14723	14543	14325	14129	14042	14039	14007	13878	14098	14079	13739	13665	14223	15261	15823	16384	16741	17096	17239	17308	17229	17164	17126	17646	18063	18345	18489	18475	18541	18534	18027	17535	17179	16822	16759	16876	17278	17554	17352	17388	17100	16996	16687	16349		
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	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-29	-30	-30	-29	-29	0	0	-28	-28	-29	-29	-31	-31	-28	-31	-28	-28	-28	-29	-31		
TIE-PLTG		50	14	-22	-45	17	-35	-36	48	27	51	24	-25	-2	59	45	-13	36	39	31	66	19	7	-33	-21	-10	9	-6	52	27	-9	19	73	25	-67	-41	-13	-10	-26	-18	-13	-36	27	17	-20	-4	-7	25	-15		
Interconnection		22	-14	-51	-73	-11	-64	-65	19	-2	21	-6	-54	-30	31	15	-43	7	10	1	37	-10	-22	-62	-50	-39	-20	-36	24	-3	-38	-11	44	-4	-67	-41	-41	-38	-55	-47	-44	-66	-1	-14	-48	-32	-36	-4	-45		
System Total		15979	15641	15256	15078	14734	14607	14390	14110	14044	14018	14013	13932	14128	14048	13724	13708	14216	15251	15822	16347	16751	17118	17301	17358	17268	17184	17162	17622	18066	18383	18500	18431	18545	18601	18068	17576	17217	16877	16806	16920	17344	17555	17366	17436	17132	17032	16691	16394		
SRev ST-Coal		281	298	398	455	556	667	836	877	956	955	955	952	886	798	1017	1015	959	445	396	208	177	127	142	140	148	146	144	144	132	148	173	180	132	139	130	138	133	194	147	160	156	161	156	157	136	155	161	152		
SRev CCGT-Gas		2294	2214	2174	2172	2201	2217	2263	2380	2369	2375	2325	2359	2307	2444	2432	2457	2484	2437	2477	2369	2257	1820	1646	1603	1700	1813	1619	1025	717	501	341	388	272	270	685	992	1075	1334	1414	1328	982	801	992	1151	1413	1450	1718	1982		
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		0	0	462	676	676	676	676	676	676	676	676	676	676	676	676	676	676	489	676	588	588	588	588	588	500	500	500	500	313	126	126	126	126	126	126	126	313	500	500	500	500	500	500	313	313	313	313	313	401	
Hydro		602	788	492	409	360	317	317	360	349	360	407	325	310	380	377	376	376	528	374	356	430	535	565	577	640	632	556	509	604	697	667	591	588	649	681	594	565	462	465	387	337	236	249	243	283	271	308	302		
S.Reserve Total		3177	3387	3526	3712	3793	3877	4092	4293	4350	4366	4363	4312	4179	4298	4502	4524	4495	3899	3923	3521	3452	3070	2941	2908	2988	3091	2819	2178	1766	1472	1307	1285	1118	1184	1622	1850	2086	2490	2526	2375	1975	1698	1897	1864	2152	2189	2500	2837		