

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,438 MW
Distillate	0 MW
Total TNB	2,438 MW
Total IPP	18,726 MW
Total Co-Gen	0 MW
Total System	23,778 MW

Generation Mix

Type	MWh	Percentage
Hydro	13,023	3.35 %
Gas	39,337	10.10 %
Total TNB	52,360	13.45 %
ST-Coal	229,810	59.03 %
ST-Oil	6,803	1.75 %
LSS	4,392	1.13 %
Gas	95,992	24.66 %
Total IPP	336,997	86.57 %
Co-Gen	1,108	0.28 %
Total Co-Gen	1,108	0.28 %
Total Generation	390,465	100.30 %
PLTG	456	0.12 %
HVDC	725	0.19 %
Interconnection	1,181	0.30 %
Net Energy	389,284	100.00 %

Maximum Demand Record

Date: 5/24/2022	19,183 MW
Date: 5/24/2022	398,523 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	19,657 MW
TNB Generation	2,869 MW
IPP Generation	15,513 MW
Spinning Reserve	1,231 MW
Maximum Demand	18,370 MW
Net Energy	389,284 MWH
Load Factor	88.30 %

Fuel Cost

Total Cost:	104,136,938.52 RM
Cost per Unit	26.67 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	599
Hydro	513
Syncon	371
Thermal	122
Total	1,605

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	53
TJGS	137
Total TNB	191
CBPS	47
EMPP	188
KLPP	68
NPRI	143
PCGP	77
PGLA	77
PLPS	50
SPGP	87
Total IPP	737
Total Gas	928
Total Gas Required	998

Alternate Fuel Usage

Station	(mmscfd)
PKLG	70
Total	70

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	15903	15075	14466	14081	13756	13498	13753	13609	13975	15715	16711	17274	17335	17208	17821	18178	18357	18046	16876	16741	17826	17926	17474	16979

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, June 8, 2022 8:20:05 AM

(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	702	703	706	704	705	707	705	706	704	704	665	706	707	708	704	655	708	706	705	706	706	704	705	706	705	703	703	707	706	704																			
JMAH	U002	704	703	703	702	705	705	707	705	703	703	666	705	704	708	706	654	693	705	707	702	705	703	706	705	707	705	705	708	707	707	704	709	707																
JMHE	U001	978	983	975	902	900	900	887	882	881	881	878	879	880	880	881	881	879	984	979	977	978	980	980	974	979	973	977	980	983	978	977	985	978	984															
JMHE	U002	980	979	977	901	899	901	879	882	880	880	880	881	879	879	876	880	878	982	979	979	980	980	977	974	983	976	978	978	983	980	982	980	979	981	976	981													
JMJG	U001	640	645	645	649	640	641	640	645	640	643	641	640	640	643	644	637	643	641	642	642	643	642	643	645	641	645	643	637	642	640	643	633	632	637	637	634	638	636											
JMJG	U002	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
JMJG	U004	977	977	978	933	901	900	881	883	879	882	884	884	882	882	880	881	885	927	976	980	978	977	974	979	978	977	975	980	977	976	979	977	980	979	978	977	980	976	977										
JMJG	U005	970	971	968	892	895	902	879	881	878	881	879	880	878	880	881	880	879	963	973	974	974	973	976	965	975	965	972	971	973	972	973	972	974	972	973	973	971	974	974	975									
PKLG	U003	267	265	262	266	262	264	263	260	262	262	262	206	206	258	265	280	242	260	260	260	261	261	262	262	263	260	262	261	264	265	262	262	261	263	263	265	262	266	265	260	263	262	263	264	262				
PKLG	U004	270	273	272	273	272	275	276	270	270	275	270	206	206	263	279	208	238	271	269	274	272	272	272	268	272	271	271	277	273	276	275	273	274	273	271	272	271	275	269	272	271	271	276	273					
PKLG	U005	468	467	471	470	467	463	467	472	419	322	253	259	267	270	269	271	284	369	427	458	467	464	465	477	464	459	471	468	465	470	467	467	468	468	458	468	468	466	467	459	470	467	462	464	471	469	464		
PKLG	U006	449	450	449	448	448	449	448	448	448	448	448	449	448	450	449	447	449	446	450	448	448	449	448	448	449	446	448	448	448	446	450	448	449	449	450	448	446	449	446	448	446	448	449	446	446				
TBIN	U001	698	698	697	695	697	696	697	698	699	701	697	697	698	698	696	700	697	698	691	694	697	699	697	697	700	698	698	694	698	696	693	697	701	700	696	698	698	697	698	696	696	698	698	698	699	692	700		
TBIN	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81				
TBIN	U003	701	700	702	701	700	701	702	701	700	700	704	698	703	699	702	703	702	701	700	699	702	700	702	700	698	701	700	702	700	698	702	700	702	701	699	701	699	701	701	704	701	701	701	699	700	700			
TBIN	U004	934	934	933	903	902	904	884	880	883	882	883	882	882	882	882	881	881	934	936	936	936	934	935	939	936	937	934	936	934	935	935	936	936	936	938	936	938	937	934	936	937	936	937	936	937	935	933	938	936
Total ST-Coal		9755	9748	9738	9439	9393	9408	9315	9313	9248	9164	9010	8972	8980	9100	9115	8888	9056	9590	9690	9731	9745	9738	9748	9736	9751	9715	9741	9743	9748	9746	9744	9735	9780	9770	9745	9742	9740	9753	9752	9742	9741	9745	9766	9762	9725	9751	9744	9826	
PKLG	U001	144	144	144	144	142	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	142	142	141	135	134	136	136	138	139	140	135	132	133	133	133	130	134	134	134	142	141	141	141	143	142	
PKLG	U002	145	144	144	145	126	139	145	145	145	145	144	144	144	144	144	145	145	145	145	144	144	144	144	144	144	140	142	142	142	142	142	142	142	142	142	142	142	142	143	142	142	142	145	145	145	145	145	142	
Total ST-Oil		289	288	288	289	268	283	289	289	289	289	288	288	288	289	288	288	289	289	289	288	288	288	286	286	285	275	276	278	278	280	281	282	277	274	275	275	272	277	276	276	284	286	286	286	288	284			
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	221	222	217	226	218	222	223	219	215	212	216	213	223	223	216	216	223	224	223	224	230	359	359	361	361	359	359	360	352	359	357	357	361	366	359	359	366	357	365	365	355	362	362	368	354	361	357	314	
EMPP	BLK1	666	710	598	682	587	489	496	426	400	388	400	401	493	490	399	409	455	566	632	712	710	709	710	701	704	705	705	710	702	710	702	709	710	708	710	705	709	710	715	710	710	712	709	712	701	712	710	704	
EMPP	BLK3	667	710	598	683	583	488	493	426	399	387	400	401	493	487	399	410	450	563	709	712	710	708	710	701	704	705	705	710	702	709	703	709	710	709	711	705	709	711	716	710	711	712	709	713	701	712	709	704	
GLGR	GT01	103	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	80	83	83	81	83	82	81	81	81	80	81	80	82	81	81	83	81	83	82	81	81	83	83	81	82	83	81	82	81	83	82	82	
GLGR	GT02	103	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	82	81	82	81	82	81	81	81	81	81	81	82	81	82	81	81	81	81	81	81	81	81	81	81	82	83	82	82	82	82		
GLGR	ST1C	93	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	82	82	82	82	82	82	82	82	81	81	82	83	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82		
KLPP	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
KLPP	GT15	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130		
KLPP	ST17	68	68	68	67	68	68	68	67	68	67	67	68	68	67	68	68	67	69	69	68	69	69	69	69	69	65	68	147	143	132	197	212	210	212	210	210	206	206	207	213	213	213	213	205	201	203	173	130	
NPRI	BLK1	394	398	382	398	397	397	310	311	300	289	299	300	310	311	298	303	306	311	310	452	516	514	514	507	509	510	509	515	507	512	509	515	515	516	515	508	515	515	517	515	514	520	515	520	506	517	514	506	
NPRI	BLK2	340	400	349	400	398	398	336	335	325	313	325	324	335	335	322	328	334	334	364	436	526	524	524	511	509	518	520	526	505	520	518	525	525	526	525	520	524	524	526	523	524	529	524	531	498	526	523	497	
PCGP	PGRG	593	405	400	401	402	401	400	401	40																																								

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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					
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	28	18	65	75	91	48	81	68	102	59	21	32	94	27	27	78	73	68	47	16	6	6	1	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	1	5	10	18	23	32	22	24	42	28	41	43	13	43	37	37	37	20	17	6	7	2	2	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	1	5	7	11	15	20	31	32	36	23	41	42	37	19	40	39	15	31	27	20	12	4	2	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	1	3	6	10	10	18	22	26	29	12	22	8	12	29	8	6	18	19	16	11	9	2	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	1	2	5	8	13	30	29	18	27	30	9	20	12	19	30	29	31	22	25	21	14	9	3	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	22	86	160	239	352	444	523	517	616	559	624	587	410	574	611	536	433	430	376	283	193	119	66	27	6	0	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	21	20	22	22	21	21	21	22	22	21	22	22	21	23	23	24	24	22	21	20	19	20	19	18	17	17	19	19	19	18	18	17	17	18	18	19	18	19	21	22	20	22	21	22	21	22	22	22				
PCUF	CUFK	25	26	25	27	26	27	27	27	27	25	26	26	26	25	26	26	25	27	26	24	26	25	26	25	27	24	26	26	25	26	26	26	26	26	25	25	25	27	28	27	27	26	25	25	27	23	27	23	27			
Total Co-Gen		46	46	47	49	47	48	48	49	49	46	48	48	47	48	49	50	49	49	47	44	45	45	45	43	44	41	45	45	45	43	44	43	43	44	43	43	44	43	46	49	49	47	48	46	47	48	45	49				
Total Gen		15980	15545	15073	14840	14483	14326	14104	13963	13811	13663	13565	13525	13758	13873	13667	13496	14029	15078	15737	16341	16762	17093	17331	17484	17352	17229	17253	17699	17933	18280	18246	18317	18403	18426	18120	17486	16960	16646	16814	17694	17918	18017	18012	17847	17586	17313	17035	16705				
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	0		
TIE-HVDC		30	29	29	31	31	30	30	31	31	29	29	31	31	29	29	32	32	31	31	30	30	30	30	30	31	31	31	31	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	31	31	31	31	30			
TIE-PLTG		47	-38	-31	-11	-14	9	-7	-12	24	32	38	7	-25	8	29	-20	22	0	-9	-13	22	-13	27	19	-13	-34	14	37	82	42	36	-3	16	26	45	62	53	68	44	58	62	31	56	4	81	-3	25	33				
Interconnection		77	-9	-2	20	17	38	23	19	55	61	67	38	5	37	58	12	54	30	22	17	51	16	57	50	17	-3	45	68	112	74	68	27	46	56	74	92	84	98	73	88	92	61	86	35	112	27	56	63				
System Total		15903	15554	15075	14820	14466	14288	14081	13944	13756	13602	13498	13487	13753	13836	13609	13484	13975	15048	15715	16324	16711	17077	17274	17434	17335	17232	17208	17631	17821	18206	18178	18290	18357	18370	18046	17394	16876	16548	16741	17606	17826	17956	17926	17812	17474	17286	16979	16642				
SRev ST-Coal		134	111	121	412	451	442	461	465	517	509	595	560	553	519	500	658	558	216	169	128	114	121	111	123	108	144	118	116	111	113	115	124	129	139	114	117	119	106	107	117	118	114	143	147	134	108	115	113				
SRev CCGT-Gas		1314	1652	1746	1693	1943	2128	2264	2404	2489	2544	2494	2494	2273	2278	2497	2467	2209	1768	1428	1039	994	732	592	520	610	919	1144	659	610	571	576	495	411	387	511	995	1025	1185	1225	604	385	294	317	369	547	588	629	891				
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	0	0	
SRev ST-Oil		-9	-8	-8	-9	12	-3	-9	-9	-9	-9	-9	-8	-8	-8	-8	-9	-9	-9	-9	-8	-8	-8	-6	-6	-5	5	4	2	2	0	-1	-2	3	6	5	5	5	8	3	4	4	-4	-6	-6	-6	-8	-4					
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	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	0	0	
Syncon		588	588	588	588	588	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500		
Hydro		540	442	451	441	392	394	393	393	395	401	397	398	393	394	397	395	351	351	359	470	432	435	470	472	473	485	449	386	445	510	517	415	456	389	449	507	555	658	653	412	711	705	717	639	686	672	668	668				
S.Reserve Total		2567	2785	2898	3125	3473	3637	3785	3929	4068	4121	4153	4120	3887	3859	4062	4187	3785	3002	2623	2129	2032	1780	1665	1609	1685	2043	2216	1665	1668	1509	1521	1346	1307	1231	1393	1937	1830	2080	2119	1449	1344	1243	1299	1462	1674	1675	1717	1982				