

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,136 MW
Distillate	0 MW
Total TNB	2,136 MW
Total IPP	16,879 MW
Total Co-Gen	0 MW
Total System	23,224 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,564	4.20 %
Gas	60,619	16.36 %
Total TNB	76,183	20.56 %
ST-Coal	198,253	53.49 %
LSS	5,195	1.40 %
Gas	89,256	24.08 %
Total IPP	292,704	78.98 %
Co-Gen	911	0.25 %
Total Co-Gen	911	0.25 %
Total Generation	369,798	99.78 %
PLTG	-127	-0.03 %
EGAT	6	0.00 %
HVDC	-687	-0.19 %
Interconnection	-808	-0.22 %
Net Energy	370,606	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:	16:00:00 Hour
Total Set On Bus	18,427 MW
TNB Generation	4,014 MW
IPP Generation	13,240 MW
Spinning Reserve	1,135 MW
Maximum Demand	17,315 MW
Net Energy	370,606 MWH
Load Factor	89.18 %

Fuel Cost

Total Cost:	94,759,678.47 RM
Cost per Unit	25.62 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	705
Hydro	389
Syncon	477
Thermal	208
Total	1,779

Time	Weather	Temperature
Afternoon	Cloudy	30
Morning	Sunny	32

Gas Usage

Station	(mmscfd)
GLGR	55
TJGS	176
Total TNB	231
CBPS	46
EMPP	184
KLPP	20
NPRI	148
PCGP	75
PGLA	48
PLPS	79
SKSP	3
SPGP	180
Total IPP	784
Total Gas	1,015
Total Gas Required	1,015

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	15312	14484	13982	13555	12987	12830	13181	13151	13651	15149	16048	16413	16360	16124	16833	17197	17315	17180	16174	15970	17110	17124	16472	15930

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, July 4, 2022 1:16:26 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	695	695	699	697	696	698	696	696	696	697	698	698	696	696	695	696	696	698	696	695	696	697	695	695	695	696	694	696	694	696	693	694	693	694	696	696	696	696	696	693	696									
JMAH	U002	696	698	696	697	693	696	695	696	695	697	696	695	694	695	694	696	696	693	695	695	695	695	696	696	696	696	697	694	693	694	693	694	693	694	696	696	696	696	696	693	696									
JMJG	U001	668	667	662	665	667	665	663	667	667	667	666	666	662	666	668	671	670	668	666	669	666	665	664	667	667	663	669	666	666	668	667	664	666	666	669	664	666	666	668	667	669									
JMJG	U002	672	675	672	675	673	675	674	674	677	673	674	675	677	675	671	678	672	675	671	672	673	671	677	672	673	676	673	672	673	673	676	673	668	672	672	671	669	672	671	670	672									
JMJG	U003	667	661	666	666	671	673	679	670	669	673	664	658	666	656	671	664	654	669	667	668	675	662	666	672	668	666	668	656	667	669	671	677	667	671	671	667	669	666	671	669	667	678	658	666	674	664	668	662		
JMJG	U004	971	974	968	952	900	902	872	854	853	857	859	856	855	855	856	857	886	949	977	980	979	977	981	980	974	982	981	980	977	981	979	982	976	978	976	978	977	978	980	978	978	981	977	978	978	978	979			
JMJG	U005	973	972	975	937	900	900	898	900	897	900	900	897	896	900	902	899	900	904	912	908	908	912	909	921	921	920	922	924	922	918	922	921	920	923	920	921	918	921	920	920	922	925	919	920	925	923				
PKLG	U003	282	278	279	280	278	279	278	252	148	148	148	149	150	149	150	247	277	278	279	277	277	278	278	277	280	275	278	276	281	279	281	278	279	280	279	277	279	276	279	280	278	277	277	275	275	275	275			
PKLG	U004	274	267	271	271	272	267	271	242	170	145	151	151	152	153	151	236	272	276	274	270	272	274	273	274	276	270	272	273	207	209	200	200	279	291	283	279	280	275	274	276	275	273	277	277	275	274	276	276		
PKLG	U005	467	470	468	470	467	466	464	441	359	286	269	268	268	269	272	348	425	455	474	466	464	468	467	467	465	470	466	464	470	468	466	465	468	466	466	466	466	464	466	467	467	468	467	464	470	468	468	464	470	
PKLG	U006	447	450	452	446	448	450	445	445	451	446	445	447	443	441	449	449	449	449	447	448	448	449	445	448	446	447	446	445	450	450	448	448	446	447	446	448	448	449	446	449	447	450	448	449	449	448	447			
TBIN	U002	688	695	696	690	691	692	693	693	695	690	692	692	691	692	694	692	691	692	693	693	691	694	693	693	694	694	691	693	690	692	692	694	693	694	693	694	692	689	693	694	690	692	692	688	693	693	691	692		
TBIN	U004	941	940	938	904	904	903	860	852	852	854	854	853	853	852	853	852	907	939	938	938	939	939	938	938	942	940	940	941	937	936	939	936	939	939	939	939	939	939	939	935	935	938	919	934	939	940				
Total ST-Coal		8441	8442	8442	8350	8260	8266	8188	8082	7829	7732	7715	7705	7712	7696	7723	7980	8111	8250	8356	8374	8389	8384	8380	8388	8390	8387	8395	8376	8327	8337	8335	8327	8403	8413	8407	8396	8400	8383	8395	8403	8391	8397	8387	8390	8381	8386	8388	8397		
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		
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	214	212	220	220	220	220	222	219	221	219	218	220	221	222	222	217	223	220	304	355	344	355	353	243	218	361	361	356	358	361	361	361	361	361	360	353	360	358	364	355	360	360	358	353	358	346	218			
EMPP	BLK1	398	397	415	478	467	408	470	435	455	465	435	484	565	658	570	449	533	567	598	706	710	702	704	695	611	700	705	710	713	705	706	709	709	711	710	708	698	711	709	716	705	708	711	707	699	689	609	669		
EMPP	BLK3	398	398	416	482	468	408	474	432	455	465	434	484	565	658	571	444	540	560	596	705	709	703	704	698	614	700	706	711	712	705	706	710	708	712	709	709	695	710	708	717	704	708	710	707	699	691	625	668		
GLGR	GT01	83	84	85	85	83	85	86	84	84	83	84	83	84	83	83	83	85	83	85	84	84	83	83	83	83	84	83	83	83	83	84	85	83	83	112	109	107	108	108	85	85	92	104	103	104	102	103	103	84	
GLGR	GT02	84	83	83	83	84	83	83	83	83	84	83	83	84	83	83	84	84	83	84	83	84	83	83	83	83	84	83	83	83	83	83	83	83	107	106	106	106	106	83	83	90	103	102	103	102	103	104	103	84	
GLGR	ST1C	83	83	83	83	82	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	98	98	98	98	98	83	83	84	93	93	93	94	93	83			
KLPP	GT15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13	8	8	8	15	24	32	35	140	140	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120		
KLPP	ST17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	11	22	32	38	65	67	67	67	69	67	67	69	67	67	69	68	67	68	67	67	67	68	66	67	67	68	67	67	67		
NPRI	BLK1	503	502	510	512	511	511	401	394	395	394	392	394	395	394	391	399	399	389	397	393	516	507	509	507	504	503	508	515	520	510	515	517	517	517	515	515	503	516	511	521	509	515	515	511	505	513	495	509		
NPRI	BLK2	506	442	346	347	346	344	348	346	349	348	335	367	401	444	393	346	394	472	518	513	520	474	496	410	325	493	442	521	524	481	511	520	521	520	520	520	490	520	506	528	513	518	519	516	502	518	482	500		
PCGP	PGRG	398	395	394	396	398	394	399	394	397	394	394	397	394	396	397	403	396	402	492	602	585	589	587	580	529	492	603	600	592	595	602	605	606	603	502	389	502	594	600	592	602	601	593	481	396	392	392			
PGLA	GT11	151	152	155	155	155	155	157	157	157	156	155	157	155	155	157	158	155	159	157	158	156	155	156	153	154	156	159	160	220	223	223	224	222	222	156	153	159	157	224	221	223	224	222	160	163	156	161			
PGLA	ST10	85	85	86	86	86	86	86	86	86	86	86	86	86	86	86	87	86	87	87	88	87	87	87	87	88	88	88	88	88	88	88	88	88	88	88	88	105	113	113	113	113	113	89	90	89	88				
PLPS	GT11	112	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73	141	139	141	141	141	140	138	141	137	112
PLPS	GT12	116	112	116	121	71	69	72	72	72	71	70	73	72	73	67	72	72	68	119	120	119	117	114	115	152	115	115	119	124	145	149	148	150	148	149	150	144	147	149	149	148	149	148	149	144	148	144	117		
PLPS	GT13	109	102	107	109	64	59	64	63	64	64	62	63	64	63	61	63	64	60	108																															

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	HY02	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
CEND	HY04	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	7	8	8	8	8	8	8	8	
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	HY02	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	33	33	33	33	33	33	24	24	24	24	24	24	24	24	24	33	33	34	33	33	33	33	33	34	
KNRG	HY02	37	37	37	37	37	37	24	24	25	25	24	24	24	24	24	37	37	37	37	37	37	37	37	37	
KNRG	HY03	36	36	36	36	36	36	22	22	22	22	22	22	22	22	22	36	36	36	36	36	36	36	36	36	
KNYR	HY01	96	96	96	96	97	97	97	97	99	99	99	99	99	99	99	90	88	101	103	100	96	101	98	101	
KNYR	HY02	96	96	96	96	97	97	97	97	99	99	99	99	99	99	99	99	99	100	101	102	101	97	101	98	
LPIA	HY02	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	
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	HY03	153	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	82	82	82	21	
PGAU	HY04	152	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	81	81	82	21	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	50	50	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	50	50	
TMGR	HY01	40	40	43	44	44	42	44	49	43	53	42	44	43	42	45	84	84	84	84	40	85	42	85	68	43
TMGR	HY02	85	0	0	0	0	0	34	32	31	31	34	32	32	30	33	85	86	84	83	34	37	36	34	89	89
TMGR	HY03	82	82	84	85	84	85	32	32	32	32	32	32	32	31	31	82	82	82	32	0	0	0	85	84	84
TMGR	HY04	83	83	85	85	85	85	-1	-1	-1	-1	-1	-1	-1	-1	-1	85	85	84	84	84	-1	-1	84	-1	-1
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	86	92	92	184	182	-1	-1	-1	-1	-1
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	-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		1076	667	674	676	678	675	678	542	534	548	537	542	538	537	540	543	571	538	541	559	560	537	437	492	488
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	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	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	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	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	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	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	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	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	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	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	0
KNLS	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	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	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			

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			
PCUF	CUFG	29	28	29	28	29	29	28	28	28	28	28	28	29	28	28	28	28	29	28	28	30	28	28	29	28	29	29	28	29	27	28	28	29	28	29	29	28	29	27	30	27	29	28	28						
PCUF	CUFK	10	10	10	10	11	10	9	10	9	9	11	10	11	9	9	8	9	10	11	11	10	9	9	10	10	9	10	10	10	10	9	9	9	10	9	8	11	8	10	9	9	8	10	10	9	12	8	9		
Total Co-Gen		39	38	39	38	40	39	37	38	37	37	39	38	40	38	37	36	37	38	40	39	38	39	37	38	39	37	38	39	38	39	38	37	38	37	37	36	40	36	39	38	37	37	37	40	36	41	36	37		
Total Gen		15289	14750	14419	14167	13921	13693	13518	13178	12976	12897	12791	12923	13134	13339	13126	13142	13602	14567	15106	15530	15997	16236	16389	16401	16258	16185	16113	16534	16763	17140	17160	17190	17292	17256	17159	16590	16154	15857	15970	16773	17095	17131	17118	16868	16498	16260	15927	15605		
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				
TIE-HVDC		-30	-28	-28	-28	-28	-28	-31	-29	-30	-30	-28	-30	-28	-30	-28	-30	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-30	-28	-28	-28	-28	-28	-28	-28	-29	-28	-28	-28	-28	-31					
TIE-PLTG		7	-24	-38	-15	-33	-14	-7	-8	19	-37	-11	9	-17	10	3	11	-19	0	-16	-21	-23	0	4	-40	-74	-15	17	-16	-42	-23	-8	-7	5	0	7	37	8	17	27	-29	14	28	22	-26	54	-5	24	-9		
Interconnection		-23	-52	-65	-42	-61	-42	-37	-37	-11	-67	-39	-19	-47	-18	-25	-18	-49	-27	-43	-49	-51	-28	-24	-68	-102	-45	-11	-44	-70	-52	-37	-35	-23	-30	-21	9	-20	-11	0	-57	-15	0	-6	-55	26	-33	-4	-39		
System Total		15312	14802	14484	14209	13982	13735	13555	13215	12987	12964	12830	12942	13181	13357	13151	13160	13651	14594	15149	15579	16048	16264	16413	16469	16360	16230	16124	16578	16833	17192	17197	17225	17315	17286	17180	16581	16174	15868	15970	16830	17110	17131	17124	16923	16472	16293	15930	15644		
SRev ST-Coal		162	161	161	253	334	330	382	449	458	460	467	475	468	494	465	467	437	329	247	229	214	219	223	215	213	216	208	227	190	180	182	190	200	190	196	207	203	220	208	200	212	206	216	213	222	217	215	206		
SRev CCGT-Gas		1978	2108	2304	2465	2625	2855	2953	3052	2992	2988	3068	2930	2724	2500	2742	3156	2915	2150	1828	1742	1400	1076	870	951	1080	1281	1406	866	635	452	405	379	308	305	324	553	839	1236	1022	291	316	270	255	281	527	798	1131	1541		
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			
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			
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			
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			
Syncon		500	500	500	500	500	500	588	588	588	588	588	588	588	588	588	588	588	588	588	588	588	588	588	588	588	588	588	588	588	588	588	313	313	313	313	313	313	588	588	588	588	588	500	314	500	588	588	588	676	676
Hydro		149	346	339	337	335	338	335	473	481	467	478	473	477	478	475	472	444	477	474	456	455	478	478	523	527	484	479	472	424	450	443	402	314	302	299	395	392	335	384	378	236	172	190	332	443	440	341	331		
S.Reserve Total		2789	3115	3304	3555	3794	4023	4170	4562	4519	4503	4601	4466	4257	4060	4270	4683	4384	3544	3137	3015	2657	2361	2159	2277	2408	2569	2681	2153	1837	1395	1343	1284	1135	1110	1132	1743	2022	2379	2202	1457	1264	962	1161	1414	1780	2043	2363	2754		