

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,961 MW
Distillate	0 MW
Total TNB	1,961 MW
Total IPP	17,057 MW
Total Co-Gen	0 MW
Total System	21,839 MW

Generation Mix

Type	MWh	Percentage
Hydro	21,594	5.83 %
Gas	45,586	12.30 %
Total TNB	67,180	18.13 %
ST-Coal	198,458	53.55 %
LSS	5,253	1.42 %
Distillate	2,687	0.73 %
Gas	96,685	26.09 %
Total IPP	303,083	81.79 %
Co-Gen	569	0.15 %
Total Co-Gen	569	0.15 %
Total Generation	370,832	100.07 %
PLTG	1,480	0.40 %
HVDC	-1,217	-0.33 %
Interconnection	263	0.07 %
Net Energy	370,569	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	17,887 MW
TNB Generation	4,406 MW
IPP Generation	13,144 MW
Spinning Reserve	318 MW
Maximum Demand	17,610 MW
Net Energy	370,569 MWH
Load Factor	87.68 %

Fuel Cost

Total Cost:	131,600,612.31 RM
Cost per Unit	35.49 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	611
Hydro	255
Syncon	441
Thermal	158
Total	1,465

Time	Weather	Temperature
Afternoon	Hot	0
Morning	Sunny	0

Gas Usage

Station	(mmscfd)
GLGR	40
SRDG	10
TJGS	184
Total TNB	235
CBPS	48
EMPP	287
KLPP	14
NPRI	72
PCGP	71
PGLA	70
PLPS	55
SKSP	14
SPGP	84
Total IPP	715
Total Gas	950

Total Gas Required 993

Alternate Fuel Usage

Station	(mmscfd)
PGLA	12
KLPP	5
PGLA	12
PLPS	13
Total	43

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	14820	14051	13490	13218	12885	12728	13101	13078	13615	15241	15993	16593	16575	16289	16749	17067	17610	17222	16315	16782	17212	16913	16428	15968

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, December 5, 2022 3:11:44 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Tuesday

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	U002	706	708	705	704	705	704	706	702	705	706	701	707	706	705	702	704	707	704	706	704	705	702	704	704	706	714																								
JMHE	U001	977	976	891	890	875	850	854	848	851	850	853	851	850	851	848	851	880	969	981	981	977	980	979	980	978	978																								
JMHE	U002	982	978	892	898	874	851	847	850	849	848	848	853	849	850	849	851	850	876	973	980	979	980	975	980	977	981																								
JMJG	U001	663	662	662	662	663	664	660	665	666	661	661	660	662	662	660	663	662	685	663	669	663	667	666	667	668	666																								
JMJG	U002	673	673	675	678	672	678	673	674	673	677	673	671	677	674	672	673	679	667	682	667	683	662	676	673	677	676																								
JMJG	U003	667	667	664	667	666	669	668	666	668	666	667	663	670	666	670	672	662	668	662	666	668	667	663	665	669	671																								
JMJG	U004	974	972	932	890	892	853	852	851	855	853	852	854	853	853	854	856	856	861	919	972	976	975	972	972	972	972																								
JMJG	U005	977	977	887	887	888	849	851	850	850	849	846	854	850	851	853	856	862	973	982	974	979	977	977	972	977	977																								
PKLG	U003	279	282	279	281	280	249	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14																								
PKLG	U004	282	276	273	273	274	245	166	229	254	275	273	273	273	272	271	264	267	276	274	275	274	269	273	274	271	272																								
PKLG	U006	446	450	450	443	450	449	449	449	447	447	447	447	447	449	449	447	447	449	449	447	449	445	449	447	445	446																								
TBIN	U002	701	700	701	702	700	701	700	703	702	700	695	701	702	700	700	700	703	703	702	701	698	705	697	703	702	700																								
TBIN	U003	700	698	700	698	701	699	701	699	700	702	697	701	701	699	699	699	698	698	701	706	701	699	700	698	699	700																								
Total ST-Coal		9027	9019	8711	8673	8640	8461	8127	8186	8217	8233	8218	8229	8244	8231	8230	8230	8245	8312	8689	8736	8762	8722	8748	8736	8736	8749	8750	8747	8740	8750	8749	7803	7753	7767	7771	7785	7758	7775	7765	7773	7758	7772	7761	7784	7746	7758	7760	7788		
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	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	0
CBPS	BLK2	246	201	201	201	201	201	201	202	194	191	201	201	203	201	201	201	313	358	355	372	370	370	365	361	361	361	364	361	363	361	358	360	361	364	365	365	366	367	369	369	368	369	369	369	369	370	369	252		
EMPP	BLK1	644	432	412	480	411	414	477	413	412	402	397	445	528	634	535	480	567	693	693	688	712	712	702	719	710	710	709	711	726	714	712	744	743	748	745	743	744	747	718	713	710	720	709	716	705	704	704	722		
EMPP	BLK2	701	711	709	483	410	411	481	411	410	403	398	448	529	637	538	478	575	704	695	688	712	712	711	719	710	710	709	711	726	714	712	742	747	750	749	747	749	751	718	713	709	719	709	716	705	703	704	722		
EMPP	BLK3	703	711	709	496	411	415	495	411	411	403	398	458	538	653	553	491	597	703	695	688	712	712	703	719	710	709	709	711	725	714	712	743	742	747	744	741	741	748	719	713	710	720	709	717	705	704	704	722		
GLGR	GT01	92	94	93	94	93	93	93	92	93	93	92	93	93	93	92	92	92	91	92	91	93	92	91	92	91	92	105	105	106	104	110	108	109	108	107	108	75	66	87	111	110	110	109	110	109	109	66	100		
GLGR	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	40	64	75	108	108	108	109	109	74	66	89	109	108	108	109	108	109	108	65	25				
GLGR	ST1C	39	42	41	41	41	42	41	41	41	42	42	41	42	41	41	41	41	39	40	40	40	40	39	41	44	45	45	45	98	99	99	99	99	99	98	83	71	80	99	99	99	99	99	100	99	99	76	44		
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	30	71	152	153	105	0	0	0	0	0	0	0	0	
KLPP	GT15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	35	144	143	145	146	148	148	148	149	147	148	149	113	25	
KLPP	ST17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	56	63	99	144	145	138	126	139	139	140	133	100		
NPRI	BLK2	398	309	310	309	309	309	309	309	299	295	311	310	310	310	310	309	512	514	509	523	521	516	528	518	517	518	521	524	523	521	524	527	527	531	528	529	529	530	532	531	532	530	539	526	525	526	539			
PCGP	PGRG	602	603	602	602	602	601	603	602	402	399	393	404	400	407	402	403	402	259	249	255	257	255	248	271	253	250	253	256	280	263	260	320	618	623	603	593	608	637	619	609	609	619	601	613	586	584	585	626		
PGLA	GT11	150	151	150	150	150	151	150	151	151	146	145	151	151	151	150	151	152	154	145	154	154	154	218	224	219	192	153	219	221	218	218	223	226	226	227	189	166	227	228	229	227	231	227	229	225	224	228	234		
PGLA	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	127	139	131	216	217	219	191	152	219	220	218	217	220	223	224	226	189	163	0	0	0	0	0	0	0	0	0	0	0	0	0	
PGLA	ST10	82	82	82	82	81	81	81	81	81	80	80	81	81	81	81	81	81	81	76	84	114	245	246	244	218	190	240	245	245	243	246	250	251	252	235	191	224	227	227	227	228	229	229	225	226	226	228			
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	139	137	139	141	141	141	141	143	146	143	140	141	144	140	46	0	0	0	0
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	120	119	142	139	144	138	120	119	119	148	148	148	149	149	149	149	149	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT13	124	125	123	124	124	124	124	124	124	124	124	124	124	123	125	124	124	122	122	108	135	132	137	133	107	108	106	138	141	141	141	141	142	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PLPS	ST18	59	59	58	58	59	59	60	58	58	59	59	59	59	60	59	59	59	58	127	136	144	143	143	144	134	133	135	146	212	212	213	211	211	211	211	181	206	163	139	136	137	136	134	104	134	136	136	138		
SKSP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	53	106	136	257	341	346	344	344	345	344	343	343	217	218		
SPGP	BLK1	548	551	550	550	548	550	550	548	548	539	533	365	358	362	359	451	548	649	715	710	713	653	646	560	548	550	551	553	568	554	554	584	559	561	547	544	555	569	561	552	550	560	551	555	537	540	714	712		
TJGS	GT1A	115	116	117	116	117	116	118	116	116	115																																								

Daily MW Generation on Tuesday

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	
BSIA	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	22	22	22	22	22	22	22	
BSIA	HY02	20	20	20	20	20	20	20	20	20	20	20	11	11	11	11	11	20	20	20	20	20	20	20	20	
BSIA	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22	22	22	22	22	23	22	
CEND	HY01	6	6	7	7	6	7	7	6	6	6	7	6	6	9	9	9	9	10	9	9	9	10	9	9	
CEND	HY02	7	7	7	7	7	7	7	7	6	6	7	7	7	8	8	8	8	8	8	8	8	8	8	8	
CEND	HY03	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	8	7	7	7	7	7	7	7	
CEND	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	7	7	7	7	7	7	
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	117	117	117	118	56	-1	-1	-1	
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	115	115	115	62	63	63	63	63	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	37	37	37	37	37	37	37	
KNRG	HY02	38	38	38	38	38	38	38	38	38	38	38	23	23	38	38	38	38	38	37	37	37	37	37	37	
KNYR	HY01	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	
KNYR	HY02	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	101	103	103	103	103	103	103	103	
KNYR	HY03	101	100	100	99	99	98	98	97	98	98	99	100	100	101	101	100	100	100	99	99	98	98	97	97	
KNYR	HY04	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	
LPIA	HY01	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	
LPIA	HY02	19	19	19	19	19	19	19	19	19	19	19	17	17	17	17	18	18	0	0	19	19	19	19	19	
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	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	21	81	112	154	151	23	22	
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	-1	20	-1	
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	112	152	148	148	87	22	21	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	149	149	149	21	21	21	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	51	51	51	51	51	51	51	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	19	0	0	0	0	0	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	10	0	0	0	0	0	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	10	0	0	0	0	0	
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	78	78	78	-1	78	78	
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	83	83	82	83	82	83	
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78	78	78	78	74	78	78	78	
TMGR	HY04	41	41	42	42	42	41	42	42	40	39	42	42	43	41	81	43	40	63	81	41	81	43	42	81	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	184	183	183	182	89	92	
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	
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		573	572	574	573	572	572	571	570	571	568	567	594	572	574	574	591	603	548	548	565	587	597	595	655	617
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115	144	144	
PGLA	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	202	203	204	207	205	
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	143	146	145	141	140	
Total Distillate		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	143	348	348	345	347	
BDSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	4	4	2	7	11	11	12	12	15	23	18	22	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	5	7	10	14	13	25	20	33	23	33	36	8	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	5	5	15	18	17	28	23	25	27	31	28	32	31	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	12	8	14	14	17	23	30	21	21	36	42	42	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	2	5	12	15	17	28	33	38	36	45	37	33	19	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	2	7	12	21	30	39	35	45	36	32	50	47	48	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	2	5	8	9	25	28	29	28	21	27	22	12	9	

Daily MW Generation on Tuesday

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
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
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
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
MNLS	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
PKLS	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
ESTL	ESTL	21	19	20	18	15	14	10	14	15	15	17	19	16	18	18	17	17	13	16	15	18	15	21	21
KHTC	BLK1	2	4	0	2	3	2	2	3	3	3	1	2	2	2	0	2	1	0	0	0	0	0	0	4
PCUF	CUFG	7	5	5	5	6	5	6	3	6	6	6	6	5	5	4	5	4	5	4	5	4	5	4	5
PCUF	CUFK	4	3	2	5	4	3	4	1	5	4	4	5	5	4	2	2	3	4	4	3	4	4	3	3
Total Co-Gen		34	31	27	30	28	24	22	21	29	28	30	31	28	29	26	25	28	28	27	21	25	24	26	24
Total Gen		14846	14522	14176	13773	13508	13337	13216	13049	12888	12828	12789	12864	13084	13416	13100	13070	13576	14652	15218	15734	16000	16301	16623	16672
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
TIE-HVDC		-31	-30	-28	-30	-28	-29	-29	-30	-29	-31	-28	-28	-31	-30	-29	-27	-28	-70	-69	-69	-68	-69	-69	-68
TIE-PLTG		57	100	153	30	46	48	27	80	31	52	89	19	13	52	51	13	-10	114	46	123	75	63	99	
Interconnection		26	70	125	0	18	19	-2	50	3	21	61	-10	-17	23	22	-14	-39	44	-23	53	7	-7	30	
System Total		14820	14452	14051	13773	13490	13318	13218	12999	12885	12807	12728	12874	13101	13393	13078	13084	13615	14608	15241	15681	15993	16308	16593	
SRev ST-Coal		166	174	452	477	474	507	483	485	482	468	481	483	458	474	471	481	475	466	220	173	147	187	161	
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
SRev CCGT-Gas		1232	1544	1580	1947	2176	2164	1948	2172	2373	2445	2470	2434	2204	1862	2174	2257	1872	1026	1427	1180	1012	937	622	
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
SRev 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
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
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
Syncon		917	917	917	917	917	917	917	917	917	917	917	917	917	917	917	917	917	917	917	917	917	917	917	917
Hydro		85	86	84	85	86	86	87	88	87	90	91	215	86	84	84	218	55	110	110	93	71	71	113	
S.Reserve Total		2400	2721	3033	3426	3653	3674	3435	3662	3859	3920	3959	3898	3665	3337	3646	3722	3319	2519	2674	2363	2147	2112	1813	