

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,285 MW
Distillate	0 MW
Total TNB	2,285 MW
Total IPP	16,175 MW
Total Co-Gen	0 MW
Total System	21,742 MW

Generation Mix

Type	MWh	Percentage
Hydro	7,918	2.34 %
Gas	54,173	16.01 %
Total TNB	62,091	18.35 %
ST-Coal	200,814	59.35 %
LSS	6,219	1.84 %
Gas	69,997	20.69 %
Total IPP	277,030	81.87 %
Co-Gen	-101	-0.03 %
Total Co-Gen	-101	-0.03 %
Total Generation	339,020	100.19 %
PLTG	-63	-0.02 %
HVDC	721	0.21 %
Interconnection	658	0.19 %
Net Energy	338,362	100.00 %

Maximum Demand Record

Date: 5/11/2023	19,716 MW
Date: 5/11/2023	416,902 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	00:00:00 Hour
Total Set On Bus	17,897 MW
TNB Generation	2,673 MW
IPP Generation	13,371 MW
Spinning Reserve	1,862 MW
Maximum Demand	15,998 MW
Net Energy	338,362 MWH
Load Factor	88.13 %

Fuel Cost

Total Cost:	84,887,740.87 RM
Cost per Unit	24.98 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	437
Hydro	339
Syncon	873
Thermal	577
Total	2,226

Time Weather Temperature

Afternoon	Cloudy	33
Morning	Cloudy	27

Gas Usage

Station	(mmscfd)
GLGR	50
TJGS	212
Total TNB	262
CBPS	51
EMPP	202
PCGP	88
PLPS	89
SKSP	29
SPGP	105
Total IPP	565
Total Gas	827
Total Gas Required	827

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	15998	15443	14771	14175	13760	13340	13130	12667	12197	12502	12974	13281	13229	13225	13737	14032	14297	14490	14094	14500	15920	15860	15610	15366

Daily MW Generation on Sunday

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	705	707	706	701	414	307	209	215	216	214	214	214	214	215	214	214	213	214	213	282	370	354	356	355	439	532	618	672	705	712	704	704	702	706	704	708	707	706	706	705	707	704	708	707	705						
JMAH	U002	704	709	700	705	702	704	707	708	703	403	402	210	213	212	214	213	214	215	214	215	213	214	300	353	355	354	353	413	542	653	657	704	706	702	701	709	700	703	704	706	706	707	706	701	709	705	708	706			
JMHE	U001	974	976	978	976	977	927	895	898	899	900	902	902	897	812	815	809	811	807	812	812	807	810	898	894	901	897	900	900	901	900	905	894	900	898	899	900	958	974	970	977	976	976	975	978	970	974					
JMHE	U002	941	732	702	700	701	697	702	701	698	700	703	703	698	813	811	811	811	811	814	811	809	897	898	901	900	901	896	900	900	900	904	896	903	899	901	899	954	974	975	978	978	976	980	982	976	978					
JMIG	U001	677	673	672	667	666	673	669	674	673	671	681	669	673	670	668	639	591	655	675	674	662	667	668	668	670	668	670	670	668	669	666	662	668	671	671	664	673	670	669	660	669	667	662	673	667	666	669	667			
JMIG	U002	683	680	679	678	673	682	681	680	682	677	679	677	678	680	682	691	678	679	685	679	682	679	680	683	680	683	677	681	682	677	682	679	679	676	681	681	682	682	682	682	680	681	679	679	679	667	684	677			
JMIG	U003	671	669	678	670	674	680	667	677	669	679	666	672	672	672	677	668	678	670	676	662	673	671	590	548	557	552	544	547	553	570	585	655	682	679	677	676	683	680	677	691	678	679	679	682	679	677	684	673			
JMIG	U004	977	974	977	974	972	972	914	900	904	902	909	906	906	884	818	821	816	819	816	819	814	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
JMIG	U005	974	970	974	974	972	952	901	900	900	902	902	895	900	848	809	817	811	809	806	812	806	810	833	891	904	900	900	899	897	900	900	898	897	896	900	901	900	921	963	974	973	977	977	974	977	972	975				
PKLG	U005	269	269	269	268	263	269	273	265	269	269	269	269	269	269	269	269	269	269	269	269	269	271	269	268	269	270	269	269	269	269	270	269	269	269	268	269	269	269	268	269	269	269	269	269	269	269	269				
PKLG	U006	406	403	407	407	404	404	406	406	406	407	406	406	406	406	406	406	406	406	406	406	406	368	293	267	270	290	379	408	405	405	406	404	406	406	406	405	405	406	406	405	405	406	405	405	406	405	406				
TBIN	U001	697	700	698	683	501	293	209	212	209	210	209	210	211	210	212	211	211	209	208	209	209	209	306	408	298	301	288	208	211	211	254	305	300	302	298	300	301	447	660	697	704	697	698	697	674	496	501				
TBIN	U003	693	516	334	216	204	210	209	209	210	212	210	211	208	211	210	209	211	210	210	211	210	283	368	300	300	287	208	210	210	252	304	299	299	301	300	299	453	630	694	694	694	694	692	689	696	694					
TBIN	U004	983	983	984	982	984	970	903	903	905	904	904	904	904	826	812	815	809	814	814	811	813	815	860	904	903	903	904	904	902	903	902	902	903	901	903	902	903	938	984	984	983	984	984	982	983	984	982				
Total ST-Coal		10354	9961	9758	9601	9107	8740	8345	8348	8343	8051	8056	7848	7847	7729	7617	7593	7531	7587	7578	7493	7455	7462	7156	7632	7500	7489	7453	7437	7670	7886	7962	8189	8339	8295	8309	8306	8321	8315	8784	9308	9406	9423	9412	9421	9412	9379	9220	9207			
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		
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	0
CBPS	BLK2	360	360	361	360	361	360	360	359	361	360	360	357	360	360	361	314	325	237	306	296	359	311	308	222	222	223	222	344	329	304	319	318	356	354	325	335	303	359	347	308	360	361	346	337	311	301	360	294			
EMPP	BLK2	684	710	712	678	709	709	710	682	685	710	702	709	695	710	676	435	421	688	709	691	708	703	686	492	625	615	694	703	710	710	703	697	719	707	704	685	706	709	692	684	711	711	696	704	682	689	708	682			
EMPP	BLK3	684	710	710	677	709	709	710	682	689	710	700	709	694	710	676	710	709	707	709	691	708	699	685	493	623	615	700	705	710	709	705	699	719	707	702	685	706	710	692	688	710	711	696	704	684	691	709	681			
GLGR	GT01	96	97	96	96	96	86	83	83	83	84	84	84	84	84	84	84	84	67	66	67	65	66	66	66	66	67	65	66	65	65	67	64	66	64	67	64	65	75	107	106	105	106	106	100	84	103					
GLGR	GT02	96	96	96	96	95	86	84	84	84	84	84	84	84	84	85	65	67	67	65	66	66	66	66	66	65	66	66	65	66	65	65	66	65	65	65	65	65	65	76	106	106	106	107	106	106	98	85	104			
GLGR	ST1C	89	90	90	90	90	88	84	83	84	84	84	83	83	84	78	71	71	70	71	70	71	70	71	71	71	71	71	71	71	71	71	71	71	72	71	72	71	71	73	96	97	97	97	97	95	81	94				
PCGP	PGRG	581	601	604	571	600	603	602	579	588	600	590	601	588	603	572	604	603	603	605	604	600	599	581	596	602	602	605	597	603	601	595	595	620	592	592	583	597	602	593	585	610	602	596	596	583	592	603	586			
PLPS	GT11	136	139	139	134	139	139	140	135	135	139	135	140	137	138	133	143	143	114	115	116	120	140	136	114	115	115	116	137	140	140	140	139	143	140	141	136	141	141	141	135	143	139	138	141	136	136	140	136			
PLPS	GT12	143	146	145	141	146	147	146	142	143	146	143	145	147	146	112	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	144	145	144	142	145	142	143	145	141		
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	70	146	140	141	112	112	111	114	137	132	112	112	112	111	136	136	136	135	134	139	136	136	131	136	135	135	132	138	136	134	135	132	132	136	133				
PLPS	ST18	141	144	144	142	144	144	144	144	144	144	145	144	144	148	208	191	144	134	133	132	134	144	142	135	134	134	144	144	144	142	143	144	145	141	143	144	142	210	212	212	211	212	209	209	211	211					
SKSP	BLK1	288	310	299	288	299	337	317	290	159	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	215	344	342	344	343	343	343	343	342	344	342	344	342	344	345	347	345	350		
SPGP	BLK1	713	716	717	721	717	717	718	718	717	716	717	715	717	716	718	718	720	721	718	719	718	719	719	718	721	719	719	718	718	720	716	729	722	718	717	718	718	718	716	719	717	717	718	719	720	722	717	720			
TJGS	GT1A	222	222	222	222	222	222	222	222	222	222	222	222	222	222	160	166	166	125	125	232	224	222	222	222	225	224	224	223	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226			
TJGS	GT1B	214	21																																																	

Daily MW Generation on Sunday

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																												
KNYR	HY01	57	57	57	-1	-1	-1	99	97	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	97	99	99	98	98	97	93	98	97																							
KNYR	HY02	59	60	69	56	78	98	73	58	82	61	69	61	82	56	90	73	10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	97	99	99	98	100	100	99	99	98	94	99	98										
KNYR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92	98	97								
LPIA	HY01	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12								
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15							
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	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	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	21	21	21	21	21	21	21	20	-1	-1							
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	24	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	21	21	21	21	20	21	20							
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
PGAU	HY04	19	-1	-1	-1	-1	18	-1	-1	-1	-1	21	-1	-1	-1	-1	19	-1	-1	9	22	23	23	22	22	-1	-1	-1	18	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19							
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	30	30	30	30	30	30	0	0	0		
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	30	30	30	30	30	30	0	0	0	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	30	30	30	30	30	28	0	0	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	0	0	0			
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	0	0	0	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	16	0	0	
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	81	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	85	85	84	-1	-1	-1	-1	0	
TMGR	HY02	30	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	0	0	0	0	0	0	36	45	66	89	90	34	0	0	36	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	88	88	88	32	30	-1	-1	-1				
TMGR	HY04	30	32	33	29	30	30	31	29	30	31	31	32	31	31	28	31	31	31	31	31	31	31	81	32	32	32	33	32	33	32	32	33	32	33	32	33	32	31	33	33	32	82	84	84	84	84	84	82	32	32	32	
UJLI	HY01	-1	-1	-1	-1	-1	-1	92	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	85	-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	-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	-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	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	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	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
Total Hydro		313	265	275	200	223	262	412	300	202	247	206	237	226	227	198	235	218	224	195	196	198	206	534	281	267	287	311	286	231	197	252	280	227	315	371	242	222	245	315	593	735	734	752	589	582	487	441	456				
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	0	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	1	1	3	7	9	9	14	12	23	15	16	17	16	17	17	18	15	17	16	12	8	4	3	1	0	0	0	0	0	0	0	0	0	0	0
BKLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	7	9	24	24	28	20	18	28	24	14	17	25	18	18	16	13	8	5	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0
BSLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	7	10	17	7	20	32	27	23	27	25	28	21	30	22	15	16	15	11	6	5	2	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	3	5	8	18	20	30	25	35	39	19	32	19	19	36	16	24	33	21	11	13	12	5	1	0	0	0	0	0	0	0	0	0	0	0	0	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	17	16	28	32	36	37	37	35	32	38	37	35	32	31	28	25	19	7	5	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
GELS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	11	15	17	20	21	22	19	20	24	24	23	7	20	7	11	13	10	7	3	3	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	2	5	11	16	21	17	32	39	35	35	43	39	24	18	25	25	21	10	15	10	13	6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
JELS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	10	17	19	25	29	27	30	25	32	30	33	14	22	13	15	16	20	10	7	8	3	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	1	3	5	9	3	6	9	11	24	38	47	42	40	35	31	43	33	30	11	6	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
KDLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	14	21	27	41	22	51	91	81	81	77	84	77	71	76	76	52	50	21	22	15	15	4	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	3	7	12	14	28	22	29	38	30	36	25	31	37	36	30	33	36	26	17	15	10	6	3	1	0	0	0	0	0	0	0	0	0	0	0	0		
KMLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	7	11	12	10	17	20	27	25	23	29	23	27	26	14	11	15	9	8	5	5	1	0	0	0	0											

Daily MW Generation on Sunday

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 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	-26	-16	-23	-16	-15	-12	-15	-15	-14	-13	-12	-21	-14	-21	-13	-14	-16	-14	-16	-14	-13	-12	-14	-15
KHTC	BLK1	-11	-11	-10	-8	-12	-10	-12	-9	-6	-6	-7	-5	-6	-7	-6	-9	-10	-11	-15	-14	-18	-20	-23	-25
PCUF	CUFG	2	4	4	2	4	4	2	2	2	2	3	4	2	3	3	4	4	3	4	3	2	2	0	2
PCUF	CUFK	26	26	25	26	25	27	26	28	26	23	25	25	26	26	27	26	27	27	28	24	26	26	25	26
PFTZ	PFTZ	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 Co-Gen		-9	3	-4	4	2	9	1	6	8	6	9	10	2	9	2	11	8	5	7	4	-2	-2	-6	-9
Total Gen		16035	15714	15508	15165	14803	14502	14222	14001	13791	13538	13380	13232	13174	13185	12714	12360	12231	12361	12530	12771	13066	13225	13362	13240
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	31	31	30	30	30	30	30	30	29	30	30	30	30	30	30	30	31	29	30	32	30	30	29
TIE-PLTG		7	19	35	12	2	-2	17	8	1	11	11	-22	13	12	17	-12	4	-4	-2	39	61	44	51	31
Interconnection		37	49	65	42	32	28	47	37	31	40	40	9	44	43	47	17	34	26	28	69	92	73	81	64
System Total		15998	15665	15443	15123	14771	14474	14175	13964	13760	13498	13340	13223	13130	13142	12667	12343	12197	12335	12502	12702	12974	13152	13281	13176
SRev ST-Coal		196	307	299	335	473	527	739	737	745	816	813	821	820	828	816	849	869	846	848	875	876	876	818	872
SRev CCGT-Gas		337	229	235	354	243	223	250	367	476	282	255	227	265	287	683	1072	1045	984	890	673	464	348	410	917
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 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 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 Co-Gen		74	54	66	48	54	44	54	48	40	38	38	38	52	40	56	38	46	50	48	54	58	60	68	68
Syncon		890	1129	1129	1230	1230	1079	942	1129	1230	1079	1230	1079	1079	1230	1230	1230	865	1117	1117	1117	966	389	815	966
Hydro		365	174	164	138	115	227	214	139	136	242	132	252	263	111	140	103	120	479	169	168	166	309	558	472
S.Reserve Total		1862	1893	1893	2105	2115	2100	2199	2420	2627	2457	2468	2417	2479	2496	2925	3292	3310	3224	3072	2887	2681	2559	2243	3144