

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	16,598 MW
Total Co-Gen	0 MW
Total System	22,039 MW

Generation Mix

Type	MWh	Percentage
Hydro	9,668	2.75 %
Gas	41,439	11.81 %
Total TNB	51,107	14.56 %
ST-Coal	217,598	61.99 %
LSS	6,172	1.76 %
Gas	77,043	21.95 %
Total IPP	300,813	85.70 %
Co-Gen	-1,135	-0.32 %
Total Co-Gen	-1,135	-0.32 %
Total Generation	350,785	99.94 %
PLTG	310	0.09 %
HVDC	-538	-0.15 %
Interconnection	-228	-0.06 %
Net Energy	351,013	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:	21:30:00 Hour
Total Set On Bus	18,531 MW
TNB Generation	2,824 MW
IPP Generation	14,169 MW
Spinning Reserve	1,535 MW
Maximum Demand	16,953 MW
Net Energy	351,013 MWH
Load Factor	86.27 %

Fuel Cost

Total Cost:	86,486,755.52 RM
Cost per Unit	24.55 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	602
Hydro	240
Syncon	920
Thermal	635
Total	2,397

Time Weather Temperature

Afternoon	Hot	34
Morning	Sunny	29

Gas Usage

Station	(mmscfd)
GLGR	48
TJGS	136
Total TNB	183
CBPS	46
EMPP	194
NPRI	136
PCGP	86
PLPS	36
SGRI	1
SPGP	104
Total IPP	602
Total Gas	786
Total Gas Required	786

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	16107	15400	14744	14297	13872	13476	13425	12974	12322	12819	13340	13737	13802	13970	14417	14794	15169	15075	14689	15162	16728	16917	16840	16409

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
KNRG	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
KNRG	HY03	20	20	20	20	20	20	20	20	20	20	20	20	22	22	22	39	39	39	39	39	39	39	39	39
KNYR	HY01	98	98	92	98	98	98	98	98	98	98	98	98	96	96	98	98	98	58	58	57	-1	-1	-1	-1
KNYR	HY02	59	67	59	63	85	99	99	99	99	95	96	98	95	92	55	87	99	99	99	98	98	99	70	85
KNYR	HY03	95	94	94	93	93	93	92	92	92	91	93	93	94	94	93	93	94	95	94	93	92	92	58	0
LPIA	HY01	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	10	10	10	10	10	11	11	11	11
LPIA	HY02	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	10	10	10	10	10	10	10	10	10
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	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	-1
PGAU	HY02	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	19	20	-1	-1	-1	-1	-1	
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
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
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
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	17	17	17	17	17	17	17
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
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
TMGR	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
TMGR	HY02	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY04	84	34	31	33	33	34	33	33	33	33	33	33	28	34	33	33	34	34	34	33	34	33	32	34
UJLI	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
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
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
UPIA	HY02	3	3	3	3	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3
Total Hydro		463	408	372	382	403	421	419	440	420	411	417	416	417	411	383	405	419	424	438	438	436	491	369	303
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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	7	9	11	20	21	17	22
BKLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	5	6	11	19	21	20	26	25
BSLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	11	14	18	22	23	26	19	26
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	13	15	27	27	27	15	22	39
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	5	10	22	21	29	30	31	37
GELS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	8	9	17	17	12	14	19	27
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	13	20	25	19	35	23	19	12
JELS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	14	17	21	26	16	19	30
JLSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	12	18	24	29	30	34	36	42
KDLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	34	46	57	72	73	78	80	46
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	14	21	23	32	29	34	22	43
KMLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	8	12	17	17	23	21	9	8
KNLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	29	22	65	67	64	92	101	99
KRLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	6	7	21	26	28	15	30	14
MALS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	7	23	18	22	29	29	29	29
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	14	19	20	31	36	28	41	44
MNLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	19	65	75	65	89	92	92	94	96
PKLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	25	35	56	77	56	94	94	50	96
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	23	18	8	36	33	47	38
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	8	12	27	36	22	32	23
STLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	6	7	16	16	18	9	23	17

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																													
TBLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	1	7	15	20	26	30	30	31	30	30	30	30	30	30	20	24	5	6	4	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	27	111	243	377	523	661	746	802	840	803	748	810	815	838	792	715	612	499	400	415	278	194	79	25	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ESTL	ESTL	-17	-17	-15	-24	-24	-14	-13	-22	-14	-14	-15	-24	-22	-13	-12	-11	-12	-14	-15	-24	-18	-17	-16	-18	-17	-16	-15	-12	-16	-13	-18	-17	-16	-16	-16	-12	-15	-17	-15	-16	-12	-16	-15	-16	-16	-16	-16	-16					
KHTC	BLK1	-21	-22	-19	-18	-19	-51	-42	-36	-36	-37	-38	-36	-39	-36	-37	-35	-37	-48	-38	-62	-62	-61	-64	-63	-66	-68	-67	-66	-69	-70	-72	-80	-79	-77	-78	-65	-53	-61	-34	-30	-31	-30	-30	-27	-27	-24	-24	-24	-24				
PCUF	CUFG	3	1	2	3	3	2	2	2	2	3	4	2	2	2	3	4	1	3	3	2	2	4	1	4	2	3	3	4	3	2	4	2	3	2	5	19	18	18	18	17	17	18	18	19	17	19	19	17	17				
PCUF	CUFK	2	1	3	3	1	2	3	2	2	3	3	2	4	0	2	4	4	2	3	3	3	3	2	3	4	2	3	2	3	1	3	2	2	3	26	25	25	26	27	27	27	28	26	24	27	27	26	26					
Total Co-Gen		-33	-37	-29	-36	-39	-61	-50	-54	-46	-45	-46	-56	-55	-47	-44	-38	-44	-57	-47	-81	-75	-71	-77	-74	-77	-79	-76	-73	-76	-83	-75	-84	-88	-93	-86	-49	-38	-26	-29	-5	-3	-1	0	3	-2	4	6	3	3				
Total Gen		16101	15728	15386	15113	14718	14523	14268	14041	13855	13683	13453	13484	13399	13341	12961	12442	12298	12608	12791	13037	13286	13534	13721	13822	13761	13854	13925	14230	14365	14613	14760	15086	15176	15295	15089	14927	14693	14841	15199	16228	16763	16910	16945	16996	16897	16617	16416	16128	16128				
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	0	0	
TIE-HVDC		-29	-29	-29	-28	-30	-30	-31	-30	-29	-28	-28	-28	-30	-30	-28	-28	-29	-28	-30	-30	-31	-30	-29	-29	-29	-29	-29	-28	-28	-30	-30	-29	-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TIE-PLTG		23	20	15	20	4	17	1	10	13	25	5	7	2	23	17	-10	4	4	1	-19	-24	-23	14	-7	-12	-18	-16	-22	-23	8	-6	55	37	69	43	29	33	34	37	14	35	23	28	43	57	15	7	8	8	8			
Interconnection		-6	-9	-14	-8	-26	-13	-29	-20	-17	-4	-23	-21	-26	-5	-13	-40	-24	-23	-28	-47	-54	-53	-16	-37	-41	-47	-45	-51	-52	-21	-34	26	7	39	14	0	4	34	37	14	35	23	28	43	57	15	7	8	8				
System Total		16107	15737	15400	15121	14744	14536	14297	14061	13872	13687	13476	13505	13425	13346	12974	12482	12322	12631	12819	13084	13340	13587	13737	13859	13802	13901	13970	14281	14417	14634	14794	15060	15169	15256	15075	14927	14689	14807	15162	16214	16728	16887	16917	16953	16840	16602	16409	16120	16120				
SRev ST-Coal		247	298	314	312	350	432	427	593	717	727	732	722	727	733	736	895	911	880	906	969	1038	1060	903	908	892	886	904	892	821	925	904	684	555	569	540	467	469	466	474	246	217	158	172	162	180	172	171	286	286				
SRev 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	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	0	0	0	0
SRev CCGT-Gas		527	592	532	815	1186	1172	1156	1068	1121	1278	1509	1473	1457	1458	1928	1986	1963	1814	1853	1629	1453	1330	1243	1210	1244	1128	987	757	687	430	308	402	261	278	542	722	938	842	680	344	238	200	191	154	203	241	240	302	302				
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	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	0	0	0	0	0	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		76	78	68	84	86	130	110	116	100	102	106	120	122	98	98	92	98	124	106	172	160	156	160	162	166	168	164	158	164	172	164	176	186	194	188	188	162	138	146	98	94	92	92	84	86	84	80	80	80				
Syncon		890	739	890	890	890	890	890	739	890	890	890	890	890	890	739	890	890	890	890	890	911	739	890	911	911	911	1012	991	991	1142	1142	1041	991	1142	1142	991	1142	1142	991	1142	1142	991	802	739	651	802	802	802	890	1142			
Hydro		165	284	169	159	138	120	122	252	121	130	124	125	124	130	309	136	122	117	128	128	129	246	217	162	175	147	151	257	280	153	112	107	229	115	189	316	188	180	164	233	280	396	485	333	360	491	408	212	212				
S.Reserve Total		1905	1991	1973	2260	2650	2744	2705	2768	2949	3127	3361	3330	3320	3309	3810	3999	3984	3825	3883	3788	3691	3531	3413	3353	3388	3240	3218	3055	2943	2822	2630	2410	2222	2298	2601	2684	2899	2768	2606	1912	1631	1585	1591	1535	1631	1790	1789	2022	2022				