

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,262 MW
Distillate	0 MW
Total TNB	2,262 MW
Total IPP	18,341 MW
Total Co-Gen	0 MW
Total System	23,591 MW

Generation Mix

Type	MWh	Percentage
Hydro	14,623	4.37 %
Gas	35,303	10.56 %
Total TNB	49,926	14.94 %
ST-Coal	189,097	56.57 %
LSS	7,748	2.32 %
Gas	87,798	26.27 %
Total IPP	284,643	85.16 %
Co-Gen	579	0.17 %
Total Co-Gen	579	0.17 %
Total Generation	335,148	100.27 %
PLTG	169	0.05 %
HVDC	726	0.22 %
Interconnection	895	0.27 %
Net Energy	334,253	100.00 %

Maximum Demand Record

Date: 5/24/2022	19,183 MW
Date: 4/12/2023	401,811 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	21:30:00 Hour
Total Set On Bus	17,344 MW
TNB Generation	3,243 MW
IPP Generation	13,162 MW
Spinning Reserve	915 MW
Maximum Demand	16,374 MW
Net Energy	334,253 MWH
Load Factor	85.06 %

Fuel Cost

Total Cost:	82,535,758.16 RM
Cost per Unit	24.63 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	420
Hydro	348
Syncon	579
Thermal	579
Total	1,926

Time Weather Temperature

Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	37
SRDG	10
TJGS	7
Total TNB	55
CBPS	45
EMPP	290
NPRI	137
PCGP	86
SPGP	178
Total IPP	737
Total Gas	791

Total Gas Required 791

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	14907	14356	13733	13347	12905	12942	12782	12294	11572	11938	12566	12937	13149	13421	13836	14159	14325	14461	14478	14925	15895	16318	16213	15951

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	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
KNRG	HY03	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
KNYR	HY01	98	0	0	0	0	0	0	0	59	57	-1	-1	-1	-1	-1	59	59	56	98	99	99	99	99	99
KNYR	HY02	59	98	100	100	99	99	98	98	100	100	100	100	100	61	58	56	58	58	59	60	60	60	98	98
KNYR	HY03	59	58	60	60	57	58	57	57	59	60	60	59	59	60	58	56	57	58	59	60	60	59	59	59
LPIA	HY01	7	5	5	5	5	5	5	5	16	15	15	15	15	15	16	17	17	17	17	16	16	15	15	15
LPIA	HY02	7	7	7	7	7	7	7	7	16	16	16	16	16	16	16	17	17	17	17	16	16	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
PGAU	HY01	18	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	147	148	22	22
PGAU	HY02	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	19	0	0	0	0	0	0	0	0	0	0	0	0	0
PGAU	HY03	21	21	21	21	20	20	19	20	21	21	20	21	21	21	20	20	20	21	21	20	0	0	0	0
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	0	0	0	0	0	0	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
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	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	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
TMGR	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
TMGR	HY04	41	42	83	77	40	84	40	41	63	85	72	80	41	42	41	40	42	41	41	42	42	43	42	41
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	15	-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	95	-1	-1	-1	-1	-1	-1	-1	-1	-1
UPIA	HY01	0	0	0	0	0	0	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
UPIA	HY02	0	0	0	0	0	0	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		366	356	402	397	283	330	281	307	319	365	350	358	340	345	342	332	275	278	278	282	282	283	279	
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	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
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
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
GBLS	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
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
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
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
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
MALS	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

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																										
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	24	154	320	435	629	694	830	929	943	956	1018	1043	1011	981	1009	878	887	787	668	553	410	227	100	21	1	1	1	0	0	0	0	0	0				
ESTL	ESTL	12	9	9	7	8	9	10	10	10	12	14	13	14	15	16	14	14	11	6	12	8	4	7	11	12	12	12	10	13	12	15	12	18	16	12	1	8	13	8	13	11	14	17	13	12	10	10	10		
KHTC	BLK1	0	0	0	0	0	0	0	0	1	1	1	3	2	3	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PCUF	CUFG	2	3	4	4	4	2	4	4	5	1	2	5	4	6	4	3	4	4	4	4	3	5	4	3	4	4	2	4	3	3	3	4	5	3	3	4	3	4	4	5	4	3	3	4	4	5	3	4		
PCUF	CUFK	2	4	4	3	4	2	3	3	2	2	3	3	3	6	4	2	3	3	3	2	3	5	5	3	5	4	3	2	2	2	3	2	4	4	3	2	3	8	8	10	9	5	2	2	3	3	3	2		
PFTZ	PFTZ	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	5	5	5	5	5	5	5	5	5			
Total Co-Gen		21	21	22	19	21	18	22	22	22	21	25	27	29	35	32	28	28	23	18	23	19	20	21	22	27	26	23	22	24	23	27	24	34	30	25	14	19	30	25	33	29	27	27	24	24	23	21	21		
Total Gen		14959	14673	14370	14158	13756	13578	13373	13237	12937	12983	12972	12984	12815	12818	12346	11811	11611	11895	11980	12255	12608	12888	12952	13148	13191	13329	13480	13768	13897	14194	14206	14450	14360	14484	14458	14492	14479	14638	14972	15425	15923	16246	16364	16429	16265	16173	16010	15786		
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		
TIE-HVDC		30	31	30	30	30	30	30	31	31	29	29	30	30	30	31	31	31	31	31	31	31	30	31	30	30	30	30	30	30	30	30	30	30	30	29	31	29	31	29	31	31	31	29	29	31	29	31			
TIE-PLTG		22	21	-16	-13	-7	-17	-4	-1	1	-12	1	-16	4	4	21	19	8	12	11	5	11	-21	-15	-8	12	19	28	19	31	59	17	29	5	-52	-33	-21	-30	47	16	40	-4	11	15	25	22	29	30	12		
Interconnection		52	52	14	17	23	14	26	29	32	18	30	14	33	34	52	49	39	43	42	36	42	10	15	23	42	49	59	50	61	88	47	59	35	-22	-3	8	1	76	47	69	28	42	46	55	52	61	59	43		
System Total		14907	14621	14356	14141	13733	13564	13347	13208	12905	12965	12942	12970	12782	12784	12294	11762	11572	11852	11938	12219	12566	12878	12937	13125	13149	13280	13421	13718	13836	14106	14159	14391	14325	14506	14461	14484	14478	14562	14925	15356	15895	16204	16318	16374	16213	16112	15951	15743		
SRev ST-Coal		827	828	889	830	821	836	831	899	905	902	899	899	896	893	886	896	897	887	889	905	914	915	914	800	798	802	803	808	808	764	734	724	721	722	655	686	541	373	247	116	156	131	107	118	91	137	188	186		
SRev CCGT-Gas		441	512	604	764	875	685	820	810	857	671	671	665	804	741	1215	1758	2026	1911	1933	1854	1546	1410	1436	839	703	589	408	228	225	403	383	225	215	216	331	227	164	381	198	295	154	186	228	306	203	202	214	257		
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	
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
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	2	2	0	1	-1	1	-1	-3	25
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	9	0	0	0	0	0	0	0	0	0	0	0	0	0	
Syncon		777	802	802	802	928	928	928	777	928	928	928	928	777	626	777	777	878	878	878	878	878	878	878	378	840	840	966	865	865	865	865	865	865	865	865	187	338	187	187	187	0	0	0	0	187	374	374	374		
Hydro		480	365	319	324	312	265	314	446	290	244	259	251	420	416	368	378	334	331	331	327	327	326	330	712	404	350	296	204	220	235	196	182	192	101	188	274	264	718	789	689	625	265	277	492	597	498	498	439		
S.Reserve Total		2525	2507	2614	2720	2936	2714	2893	2932	2980	2745	2757	2743	2897	2676	3246	3809	4135	4007	4031	3964	3665	3529	3558	2729	2745	2581	2473	2105	2118	2267	2178	1996	1993	1904	2039	1383	1307	1659	1421	1289	937	582	613	915	1079	1210	1271	1281		