

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,201 MW
Distillate	0 MW
Total TNB	2,201 MW
Total IPP	18,017 MW
Total Co-Gen	0 MW
Total System	23,500 MW

Generation Mix

Type	MWh	Percentage
Hydro	17,289	4.64 %
Gas	39,587	10.61 %
Total TNB	56,876	15.25 %
ST-Coal	219,378	58.81 %
LSS	7,840	2.10 %
Gas	88,554	23.74 %
Total IPP	315,772	84.66 %
Co-Gen	182	0.05 %
Total Co-Gen	182	0.05 %
Total Generation	372,830	99.95 %
PLTG	-430	-0.12 %
HVDC	262	0.07 %
Interconnection	-168	-0.05 %
Net Energy	372,998	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:	16:30:00 Hour
Total Set On Bus	18,789 MW
TNB Generation	3,309 MW
IPP Generation	14,450 MW
Spinning Reserve	1,043 MW
Maximum Demand	17,788 MW
Net Energy	372,998 MWH
Load Factor	87.37 %

Fuel Cost

Total Cost:	80,757,423.33 RM
Cost per Unit	21.61 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	694
Hydro	382
Syncon	540
Thermal	197
Total	1,813

Time Weather Temperature

Afternoon	Hot	33
Morning	Sunny	29

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	136
Total TNB	165
CBPS	43
EMPP	275
NPRI	131
PCGP	89
PLPS	37
SPGP	106
Total IPP	681
Total Gas	845

Total Gas Required 845

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	15316	14385	13918	13399	13114	12914	13052	13335	13711	15222	15896	16457	16356	16224	16885	17348	17632	17449	16445	16213	17366	17113	16504	16149

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, September 1, 2023 3:45:37 PM
(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Wednesday

[illegible]

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
HTRG	HY04	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
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	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	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
KNYR	HY01	97	97	97	58	56	56	59	59	59	59	59	59	59	60	58	58	97	97	97	97	97	96	96	96
KNYR	HY02	97	93	98	59	56	56	61	60	59	60	62	60	60	61	61	59	64	97	98	94	98	98	98	95
KNYR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	102	100	102	100	100	101
KNYR	HY04	98	98	98	59	-1	-1	-1	60	60	60	60	60	60	60	59	59	98	98	98	98	98	98	98	98
LPJA	HY01	23	23	23	23	23	23	23	23	23	23	23	23	21	21	21	21	21	21	21	21	21	21	21	21
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	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	83	82	83	-1	-1
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1
PGAU	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
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	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY01	16	15	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
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	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	32	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	40	41	41	39	41	41	41	41	44	41	41	42	42	41	42	50	64	42	68	47	53	41	40
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	90	86	84	88
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	HY02	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6
Total Hydro		573	536	496	380	313	315	322	383	382	383	408	382	404	385	386	380	385	503	528	500	530	509	514	612
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	LSS2	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	LSS2	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	LSS2	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	LSS2	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	LSS3	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	LSS2	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	LSS3	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	LSS2	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	LSS2	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	LSS3	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	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SNLS	LSS4	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

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																									
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	12	19	25	30	35	39	41	43	44	45	45	44	42	11	39	7	12	20	9	6	5	1	0	0	0	0	0	0	0	0	0			
STLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	8	11	18	15	28	27	29	29	29	26	14	15	25	23	20	17	13	8	5	2	0	0	0	0	0	0	0	0	0	0	0		
TBLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	12	26	24	30	30	30	30	20	26	16	30	30	23	22	30	30	22	11	9	3	1	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	19	132	291	413	611	765	903	963	1009	1043	1046	971	1012	903	984	907	876	799	703	548	377	270	118	27	1	0	0	0	0	0	0	0	0	0	0	
ESTL	ESTL	0	5	0	6	0	0	0	0	0	0	1	8	7	12	10	9	9	9	8	10	10	12	12	12	12	11	6	11	8	4	8	10	4	12	9	0	0	0	0	7	12	15	12	14	9				
KHTC	BLK1	-22	-19	-20	-19	-25	-20	-21	-20	-20	-17	-15	-18	-16	-18	-20	-20	-21	-27	-25	-33	-32	-36	-38	-39	-44	-44	-44	-47	-50	-49	-52	-55	-53	-50	-49	-50	-43	-38	-38	-37	-35	-32	-28	-33	-32	-28	-29	-28	
PCUF	CUFG	18	18	18	18	19	19	18	18	19	19	20	18	18	18	19	18	19	19	19	19	17	16	17	18	16	16	16	16	18	17	17	17	17	18	18	19	18	19	18	16	18	18	-1	0					
PCUF	CUFK	20	17	19	23	22	19	18	18	18	18	19	17	18	19	20	18	18	17	18	19	18	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PFTZ	PFTZ	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	11	10	9	9	9	8	7	7	7	7	7	5					
Total Co-Gen		20	25	21	32	20	22	19	20	21	24	28	21	25	31	29	32	30	22	24	17	19	23	7	4	-3	-4	-3	-5	-11	-15	-13	-19	-19	-13	-10	-18	-4	-2	-11	-9	-8	-5	4	2	8	9	-9	-14	
Total Gen		15331	14911	14388	14111	13926	13579	13404	13188	13119	12888	12919	12947	13044	13294	13316	13399	13704	14596	15222	15660	15889	16224	16485	16590	16371	16216	16225	16492	16921	17374	17383	17495	17589	17746	17455	16981	16446	16101	16181	17079	17353	17245	17080	16831	16473	16309	16089	15897	
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	30	29	29	30	30	31	31	29	29	30	30	31	31	29	29	29	32	30	30	30	30	31	31	30	30	30	0	-31	-30	-28	-31	-28	-28	-28	-28	-28	-27	-29	-29	-31	-28	-30	-31					
TIE-PLTG		-15	7	-26	-13	-22	-37	-26	-29	-24	-20	-25	-35	-39	-47	-49	-36	-36	-33	-31	-35	-36	-39	-4	-25	-15	-44	-28	-57	5	25	5	-60	-43	-11	36	8	32	27	-4	-9	15	3	-4	-3	-1	-9	-29	-23	
Interconnection		15	37	3	16	8	-8	5	2	5	9	5	-5	-8	-17	-19	-6	-7	-1	0	-6	-7	-9	28	5	15	-14	1	-26	36	55	35	-30	-43	-42	6	-20	1	-2	-32	-36	-13	-24	-33	-32	-31	-37	-60	-54	
System Total		15316	14874	14385	14095	13918	13587	13399	13186	13114	12879	12914	12952	13052	13311	13335	13405	13711	14597	15222	15666	15896	16233	16457	16585	16356	16230	16224	16518	16885	17319	17348	17525	17632	17788	17449	17001	16445	16103	16213	17115	17366	17269	17113	16863	16504	16346	16149	15951	
SRev ST-Coal		173	208	275	323	443	597	630	622	630	619	617	631	633	628	615	496	496	395	257	185	183	170	189	192	200	199	191	185	201	202	203	182	199	197	219	226	202	196	221	142	154	239	198	192	185	199	193	194	
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	
SRev CCGT-Gas		1442	1595	2003	2101	2163	2081	1625	1816	1932	1962	1966	1906	1827	1777	1966	2058	2049	1829	1515	1336	1295	1094	863	896	1076	1303	1206	1075	691	298	305	297	237	235	292	192	568	905	779	415	322	486	586	653	725	806	891	1071	
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
SRev Co-Gen		0	-2	0	0	2	0	1	0	-1	0	-2	0	-3	1	0	1	0	0	0	1	1	-1	-1	0	0	-1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Syncon		890	890	890	890	991	991	991	890	890	890	739	890	739	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890
Hydro		242	192	157	273	239	237	230	270	271	270	396	271	400	268	267	273	268	150	125	153	123	144	139	379	286	281	152	248	459	475	646	526	486	460	544	357	430	426	523	354	474	576	504	352	414	246	282	288	
S.Reserve Total		2747	2883	3325	3587	3838	3906	3477	3598	3722	3741	3716	3698	3596	3564	3738	3718	3703	3264	2787	2565	2492	2297	2080	2019	2265	2521	2439	2211	1779	1404	1671	1522	1350	1043	1206	1426	2090	2417	2262	1376	1100	1452	1623	1848	1976	2055	2170	2355	