

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,387 MW
Distillate	0 MW
<b>Total TNB</b>	<b>2,387 MW</b>
<b>Total IPP</b>	<b>19,721 MW</b>
Total Co-Gen	0 MW
<b>Total System</b>	<b>26,110 MW</b>

### Generation Mix

Type	MWh	Percentage
Hydro	15,528	4.61 %
Gas	40,865	12.15 %
<b>Total TNB</b>	<b>56,393</b>	<b>16.76 %</b>
ST-Coal	183,546	54.55 %
LSS	6,232	1.85 %
Gas	90,342	26.85 %
<b>Total IPP</b>	<b>280,120</b>	<b>83.25 %</b>
Co-Gen	662	0.20 %
<b>Total Co-Gen</b>	<b>662</b>	<b>0.20 %</b>
<b>Total Generation</b>	<b>337,175</b>	<b>100.21 %</b>
PLTG	40	0.01 %
HVDC	665	0.20 %
<b>Interconnection</b>	<b>705</b>	<b>0.21 %</b>
<b>Net Energy</b>	<b>336,470</b>	<b>100.00 %</b>

### Maximum Demand Record

Date: 5/24/2022	19,183 MW
Date: 4/13/2023	407,278 MWH

### Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	17,290 MW
TNB Generation	3,335 MW
IPP Generation	12,769 MW
Spinning Reserve	1,161 MW
Maximum Demand	16,124 MW
Net Energy	336,470 MWH
Load Factor	86.95 %

### Fuel Cost

Total Cost:	80,113,056.30 RM
Cost per Unit	23.76 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	277
Hydro	504
Syncon	673
Thermal	234
<b>Total</b>	<b>1,688</b>

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	28

### 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	13450	12761	12388	12034	11635	11511	11526	11644	12103	13516	14332	14878	14929	14933	15525	15883	16063	15750	14877	14874	15785	15581	15057	14871

### Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	26
<b>Total TNB</b>	<b>55</b>
CBPS	45
EMPP	278
NPRI	160
PCGP	89
SPGP	208
<b>Total IPP</b>	<b>779</b>
<b>Total Gas</b>	<b>834</b>
<b>Total Gas Required</b>	<b>834</b>

### Alternate Fuel Usage

Station	(mmscfd)
<b>Total</b>	<b>0</b>

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, April 26, 2023 11:32:09 AM

(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
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	-1	-1	-1	-1	-1	111	111	111	111	24	-1	-1	-1	-1
PGAU	HY02	-1	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	25	22	22	24	21	21	-1	-1
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	22	24	22	
PGAU	HY04	20	20	-1	-1	-1	-1	-1	19	19	-1	-1	-1	-1	19	-1	-1	-1	21	21	21	21	21	-1	81
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	50	50	50	50	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	50	50	50	50	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25	
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	87	86	87	87	87	87	87	87	-1
TMGR	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89	89	89	89	89	89	89	89	0
TMGR	HY03	39	46	41	85	47	59	41	41	41	84	84	42	83	79	79	81	82	83	82	83	41	84	77	84
TMGR	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
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	92	94	182	183	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	94	96	93	98	92	
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	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		249	285	460	513	472	483	466	465	485	528	511	487	511	507	527	530	510	511	509	386	229	401	402	428
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
BDSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	10	14	16	19	21	22
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	10	14	16	20	23	23	10
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	12	17	21	24	27	28	31
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	6	6	10	11	28	32
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	15	22	27	6	14	35
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	4	6	6	29	27	23
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	9	16	21	25	32	35	36
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	13	18	23	25	28	30
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	11	16	23	26	19	31	29
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	22	33	49	59	28	75	79
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	14	23	27	31	34	37
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	14	25	31	39	66	79	74	74
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	12	15	19	23	23	22
MALS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	15	25	29	30	30	30	30
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	13	20	26	32	38	41	43
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	36	65	77	83	88	90	93	93
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	15	21	47	84	37	100	57	73
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	15	22	31	36	38	43
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	6	11	20	27	34	38	32
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	8	15	15	10	22	9
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3	7	11	5	28	24	30	31
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	136	263	376	512	676	622	834	811
ESTL	ESTL	22	22	22	20	22	22	24	22	24	15	16	20	18	16	13	16	18	21	23	18	24	20	26	26
KHTC	BLK1	4	5	6	3	3	0	0	0	2	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFK	3	4	4	3	3	3	4	4	3	4	3	5	3	2	3	4	5	3	4	3	2	4	4	3
PCUF	CUFK	4	4	4	4	4	3	4	4	3	4	2	4	3	4	1	2	4	4	2	3	4	2	3	4
Total Co-Gen		33	35	36	30	32	28	32	30	32	26	23	30	25	26	22	22	24	25	24	27	30	22	31	28
Total Gen		13465	13039	12712	12559	12388	12146	12062	11731	11672	11519	11513	11429	11542	11622	11679	11612	12141	13048	13540	14011	14361	14582	14866	14975

**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																											
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														
TIE-HVDC		0	0	0	32	30	30	31	31	30	30	30	31	31	31	31	29	29	30	31	0	0	0	0	35	34	29	34	35	35	34	33	36	35	36	36	36	36	35	33	35	35	34	34	33	31	31					
TIE-PLTG		15	-11	-49	-53	-30	-6	-2	-31	7	-9	-28	-29	-15	4	4	-4	7	21	-5	-13	-2	-15	-12	1	7	15	28	78	57	2	-4	-27	-20	-31	-3	-22	-9	-18	5	43	63	39	52	24	17	1	12	26			
Interconnection		15	-11	-49	-22	0	24	28	0	37	21	2	1	16	34	35	27	38	51	24	17	29	-15	-12	1	7	50	62	107	90	36	30	7	14	5	33	14	27	18	42	78	96	74	86	58	51	34	43	57			
System Total		13450	13050	12761	12581	12388	12122	12034	11731	11635	11498	11511	11428	11526	11588	11644	11585	12103	12997	13516	13994	14332	14597	14878	14974	14929	14879	14933	15261	15525	15758	15883	15990	16063	16124	15750	15319	14877	14694	14874	15635	15785	15752	15581	15406	15057	15028	14871	14775			
SRev ST-Coal		359	595	686	725	726	718	645	663	649	662	655	662	654	652	669	653	652	658	655	465	352	292	282	295	289	298	270	195	136	131	151	136	137	145	149	205	219	213	206	213	213	147	181	137	157	185	186	165			
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		
SRev CCGT-Gas		289	196	363	270	332	710	855	1166	1251	1437	1431	1499	1404	1331	1267	1381	945	299	266	349	329	278	452	459	458	579	561	257	184	135	195	177	204	161	227	214	251	441	319	202	177	187	224	349	463	314	338	424			
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 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
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Syncon		1117	966	1167	1167	1167	1167	1167	1016	1016	1167	1016	1167	1167	1167	1167	1167	1167	1167	1167	1268	1268	1117	1117	966	1117	1117	878	777	590	252	252	252	252	252	340	1117	1117	1268	655	353	378	466	804	101	466	804	1142				
Hydro		306	421	145	92	133	122	139	140	271	228	94	269	94	98	229	226	95	94	96	219	175	90	240	214	428	219	219	424	380	514	695	703	621	603	691	895	534	539	325	550	818	860	861	503	874	722	559	151			
S.Reserve Total		2071	2178	2361	2254	2358	2717	2806	3136	3187	3343	3347	3446	3319	3248	3181	3276	2859	2218	2184	2200	2124	1928	2091	2085	2141	2213	2167	1754	1477	1370	1293	1268	1214	1161	1319	1654	2121	2310	2118	1620	1561	1572	1732	1793	1595	1687	1887	1882			