

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,221 MW
Distillate	0 MW
<b>Total TNB</b>	<b>2,221 MW</b>
<b>Total IPP</b>	<b>17,084 MW</b>
Total Co-Gen	0 MW
<b>Total System</b>	<b>22,224 MW</b>

### Generation Mix

Type	MWh	Percentage
Hydro	23,066	7.40 %
Gas	39,740	12.75 %
<b>Total TNB</b>	<b>62,806</b>	<b>20.14 %</b>
ST-Coal	193,707	62.13 %
LSS	3,595	1.15 %
Gas	50,828	16.30 %
<b>Total IPP</b>	<b>248,130</b>	<b>79.59 %</b>
Co-Gen	1,308	0.42 %
<b>Total Co-Gen</b>	<b>1,308</b>	<b>0.42 %</b>
<b>Total Generation</b>	<b>312,244</b>	<b>100.15 %</b>
PLTG	-326	-0.10 %
HVDC	797	0.26 %
<b>Interconnection</b>	<b>471</b>	<b>0.15 %</b>
<b>Net Energy</b>	<b>311,773</b>	<b>100.00 %</b>

### Maximum Demand Record

Date: 3/10/2020	18,808 MW
Date: 3/10/2020	394,238 MWH

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

Daily Maximum Demand Hour at:	20:00:00 Hour
Total Set On Bus	16,179 MW
TNB Generation	3,594 MW
IPP Generation	11,284 MW
Spinning Reserve	1,246 MW
Maximum Demand	14,837 MW
Net Energy	311,773 MWH
Load Factor	87.56 %

### Fuel Cost

Total Cost:	47,764,737.38 RM
Cost per Unit	15.29 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	133
Hydro	268
Syncon	493
Thermal	631
<b>Total</b>	<b>1,525</b>

### Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	26

### 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	12843	12361	12095	11761	11466	11331	11357	11398	11210	12247	12848	13217	13209	13166	13563	13784	13966	13814	13467	13710	14837	14742	14495	14237

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, September 2, 2021 9:06:00 AM

(Ir. Shanmugam Thoppalan)  
Head  
Grid System Operator



Daily MW Generation on Saturday

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	HY04	98	99	99	99	99	97	98	98	98	98	98	98	98	98	98	98	98	98	98	98	97	97	98	98	98
LPIA	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	20	24	24
LPIA	HY02	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	0	0	0	0	0	0	0
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
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	146	21
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	81	20	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	73	21	
SIHY	HY01	30	47	0	0	0	0	0	0	0	50	31	31	31	31	31	51	51	51	51	31	31	49	47	47	
SIHY	HY02	30	50	0	0	0	0	0	0	0	0	0	0	0	0	30	50	50	50	30	30	30	50	50	50	
SIHY	HY03	30	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	
SYPS	HY01	17	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	25	
SYPS	HY02	17	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	25	
SYPS	HY03	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	
SYPS	HY04	17	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	
TMGR	HY01	35	82	34	-1	-1	-1	-1	-1	-1	82	-1	-1	-1	-1	-1	32	54	48	42	41	39	40	41	42	
TMGR	HY02	46	87	63	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	36	88	88	-1	-1	-1	-1	-1	36	
TMGR	HY03	33	0	0	0	0	0	0	0	40	58	83	83	23	0	0	0	0	0	0	0	0	0	0	0	
TMGR	HY04	41	82	58	85	42	84	64	41	62	40	39	40	54	42	73	40	41	55	57	41	40	55	47	41	
UJLI	HY01	-1	93	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	88	-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	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
<b>Total Hydro</b>		<b>893</b>	<b>1097</b>	<b>686</b>	<b>614</b>	<b>538</b>	<b>567</b>	<b>536</b>	<b>605</b>	<b>628</b>	<b>623</b>	<b>622</b>	<b>652</b>	<b>721</b>	<b>802</b>	<b>679</b>	<b>565</b>	<b>475</b>	<b>651</b>	<b>652</b>	<b>635</b>	<b>679</b>	<b>732</b>	<b>861</b>	<b>958</b>	
<b>Total Distillate</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	7	8	10	11	21	18	21	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	13	10	17	22	22	21	29	31	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	8	14	19	17	20	18	24	28	29	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	8	12	17	27	36	38	42	33	36	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	28	26	26	22	35	36	29	28	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	6	11	11	28	25	28	26	21	29	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	9	14	34	28	34	50	42	38	31	
JLSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	4	17	19	24	36	29	29	28	36	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	8	18	20	19	20	25	32	37	44	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	8	11	12	14	21	26	18	30	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	9	12	21	39	33	36	29	21	48	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	27	32	41	46	51	39	51	30	51	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	7	9	11	15	22	38	39	41	43	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	7	9	15	19	22	25	26	18	
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	13	19	28	30	12	20	20	18	21	
<b>Total LSS</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>47</b>	<b>91</b>	<b>180</b>	<b>235</b>	<b>328</b>	<b>374</b>	<b>422</b>	<b>441</b>	<b>450</b>	<b>468</b>	
PCUF	CUFG	29	28	28	28	29	28	30	30	28	28	27	28	29	27	29	30	30	28	27	28	29	29	28	30	28
PCUF	CUFK	25	24	26	25	27	25	26	26	26	26	26	26	24	27	26	25	27	27	27	27	27	27	27	25	26
<b>Total Co-Gen</b>		<b>54</b>	<b>52</b>	<b>54</b>	<b>53</b>	<b>56</b>	<b>53</b>	<b>56</b>	<b>56</b>	<b>54</b>	<b>55</b>	<b>53</b>	<b>54</b>	<b>55</b>	<b>51</b>	<b>56</b>	<b>56</b>	<b>55</b>	<b>55</b>	<b>54</b>	<b>55</b>	<b>56</b>	<b>56</b>	<b>55</b>	<b>55</b>	
<b>Total Gen</b>		<b>12843</b>	<b>12590</b>	<b>12354</b>	<b>12189</b>	<b>12086</b>	<b>11861</b>	<b>11723</b>	<b>11587</b>	<b>11476</b>	<b>11422</b>	<b>11362</b>	<b>11375</b>	<b>11347</b>	<b>11463</b>	<b>11432</b>	<b>11277</b>	<b>11243</b>	<b>11188</b>	<b>12258</b>	<b>12519</b>	<b>12870</b>	<b>13066</b>	<b>13210</b>	<b>13353</b>	
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
TIE-HVDC		30	30	30	30	30	30	29	29	30	30	30	30	31	31	30	30	31	31	29	29	30	30	31	31	31
TIE-PLTG		-27	4	-34	-38	-36	-42	-64	-12	-16	-25	4	-15	-37	-32	8	55	6	9	-17	-27	-5	-15	-34	-36	

### Daily MW Generation on Saturday

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																											
Interconnection		3	34	-4	-7	-6	-12	-34	19	14	4	34	15	-7	-2	37	84	36	39	14	4	26	16	-3	-5	-2	22	58	4	-12	30	55	-5	143	15	14	48	57	20	49	9	100	41	-73	0	20	-40	55	36			
System Total		12843	12559	12361	12199	12095	11877	11761	11572	11466	11421	11331	11363	11357	11468	11398	11196	11210	11782	12247	12518	12848	13054	13217	13362	13209	13225	13166	13449	13563	13826	13784	13910	13966	13996	13814	13857	13467	13453	13710	14607	14837	14817	14742	14657	14495	14497	14237	14076			
SRev ST-Coal		930	881	795	907	908	905	934	933	933	931	932	934	927	935	936	935	932	805	807	787	664	643	670	659	674	655	666	649	666	671	661	661	632	662	672	658	657	651	545	525	468	492	546	484	479	538	551	533			
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	5	5	2	75	-2	-4	-4	74	115			
SRev CCGT-Gas		85	71	64	63	71	62	71	111	74	107	124	72	61	65	68	112	111	88	92	118	155	83	84	92	134	171	283	258	243	155	146	59	52	72	112	135	76	58	101	70	160	93	52	79	84	57	75	108			
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	0
Syncon		651	464	651	738	738	738	738	825	825	825	825	825	674	651	738	674	825	825	825	825	825	738	651	651	464	738	738	738	738	738	651	187	464	277	151	151	464	651	651	338	151	151	151	0	0	151	238	325	451		
Hydro		352	138	137	35	111	33	64	-6	71	163	164	134	216	158	108	336	275	99	98	115	181	215	133	223	195	195	234	234	228	179	516	173	197	242	346	304	141	145	434	401	462	613	109	448	565	403	389	288			
S.Reserve Total		2045	1554	1647	1743	1828	1738	1807	1863	1903	2026	2045	1965	1878	1809	1850	2057	2143	1817	1822	1845	1738	1592	1565	1465	1741	1759	1921	1879	1875	1656	1510	1356	1158	1127	1281	1561	1525	1505	1418	1152	1246	1351	782	1009	1275	1232	1414	1495			