

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,396 MW
Hydro	2,415 MW
Distillate	0 MW
<b>Total TNB</b>	<b>4,811 MW</b>
<b>Total IPP</b>	<b>13,893 MW</b>
<b>Total Co-Gen</b>	<b>57 MW</b>
<b>Total System</b>	<b>19,325 MW</b>

### Generation Mix

Type	MWh	Percentage
Gas	44,699	13.89 %
Hydro	19,688	6.12 %
<b>Total TNB</b>	<b>64,387</b>	<b>20.00 %</b>
ST-Coal	171,785	53.36 %
Gas	83,400	25.91 %
<b>Total IPP</b>	<b>255,185</b>	<b>79.27 %</b>
Co-Gen	1,457	0.45 %
<b>Total Co-Gen</b>	<b>1,457</b>	<b>0.45 %</b>
<b>Total Generation</b>	<b>321,029</b>	<b>99.72 %</b>
PLTG	-397	-0.12 %
HVDC	-489	-0.15 %
<b>Interconnection</b>	<b>-886</b>	<b>-0.28 %</b>
<b>Net Energy</b>	<b>321,915</b>	<b>100.00 %</b>

### Maximum Demand Record

Date: 10/23/2017	17,790 MW
Date: 4/20/2016	372,457 MWH

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

Daily Maximum Demand Hour at:	20:00:00 Hour
Total Set On Bus	15,863 MW
TNB Generation	3,267 MW
IPP Generation	11,288 MW
Spinning Reserve	1,249 MW
Maximum Demand	14,697 MW
Net Energy	321,915 MWH
Load Factor	91.26 %

### Fuel Cost

Total Cost:	54,665,925.98 RM
Cost per Unit	18.14 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	359
Hydro	648
Syncon	411
Thermal	66
<b>Total</b>	<b>1,484</b>

### Time Weather Temperature

Afternoon	Hot	35
Morning	Sunny	25

### Gas Usage

Station	(mmscfd)
GLGR	55
PGPS	39
SRDG	4
TJGS	221
<b>Total TNB</b>	<b>319</b>
CBPS	2
KLPP	116
NPRI	78
PGLA	37
PLPS	99
PTEK	17
SGB3	87
SGRI	73
SKSP	30
YPKA	33
<b>Total IPP</b>	<b>571</b>
<b>Total Gas</b>	<b>890</b>
<b>Total Gas Required</b>	<b>890</b>

### Alternate Fuel Usage

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

### 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	13587	13005	12562	12270	11868	11902	11852	11867	11826	12947	13775	14308	14384	13947	14163	14105	14178	13967	13703	14336	14697	14425	14118	13753





### 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																												
UPIA	HY01	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7																												
<b>Total Hydro</b>		<b>497</b>	<b>532</b>	<b>477</b>	<b>452</b>	<b>1063</b>	<b>498</b>	<b>536</b>	<b>515</b>	<b>497</b>	<b>539</b>	<b>534</b>	<b>541</b>	<b>541</b>	<b>537</b>	<b>515</b>	<b>445</b>	<b>631</b>	<b>723</b>	<b>627</b>	<b>808</b>	<b>889</b>	<b>1087</b>	<b>1174</b>	<b>1120</b>	<b>1130</b>	<b>1210</b>	<b>1174</b>	<b>1480</b>	<b>1370</b>	<b>1287</b>	<b>1238</b>	<b>1280</b>	<b>1077</b>	<b>754</b>	<b>541</b>	<b>540</b>	<b>644</b>	<b>961</b>	<b>1289</b>	<b>1284</b>	<b>1287</b>	<b>1009</b>	<b>985</b>	<b>660</b>	<b>492</b>	<b>561</b>	<b>583</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>	<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>	<b>0</b>	<b>0</b>	<b>0</b>	
PCUF	CUFG	21	22	22	22	22	22	23	24	24	23	23	23	24	22	22	23	24	24	22	22	22	22	20	20	21	21	20	20	19	19	19	18	18	18	18	18	18	18	18	18	18	18	17	16	16	16	16	16	16			
PCUF	CUFK	40	39	40	39	38	40	41	40	40	41	40	41	39	40	41	41	42	41	40	39	40	39	42	40	39	39	40	41	39	40	39	40	39	37	37	37	41	40	41	41	40	43	40	40	40	41	40	40	41	40		
<b>Total Co-Gen</b>		<b>61</b>	<b>61</b>	<b>62</b>	<b>61</b>	<b>60</b>	<b>62</b>	<b>63</b>	<b>63</b>	<b>64</b>	<b>65</b>	<b>63</b>	<b>64</b>	<b>62</b>	<b>63</b>	<b>65</b>	<b>63</b>	<b>64</b>	<b>63</b>	<b>63</b>	<b>63</b>	<b>64</b>	<b>61</b>	<b>64</b>	<b>63</b>	<b>61</b>	<b>62</b>	<b>63</b>	<b>59</b>	<b>60</b>	<b>61</b>	<b>60</b>	<b>60</b>	<b>59</b>	<b>56</b>	<b>56</b>	<b>56</b>	<b>59</b>	<b>58</b>	<b>59</b>	<b>59</b>	<b>58</b>	<b>60</b>	<b>56</b>	<b>56</b>	<b>56</b>	<b>57</b>	<b>56</b>					
<b>Total Gen</b>		<b>13528</b>	<b>13172</b>	<b>12918</b>	<b>12712</b>	<b>12562</b>	<b>12376</b>	<b>12254</b>	<b>12118</b>	<b>11841</b>	<b>11913</b>	<b>11885</b>	<b>11893</b>	<b>11827</b>	<b>11989</b>	<b>11833</b>	<b>11698</b>	<b>11765</b>	<b>12390</b>	<b>12880</b>	<b>13312</b>	<b>13734</b>	<b>14056</b>	<b>14238</b>	<b>14444</b>	<b>14354</b>	<b>14157</b>	<b>13926</b>	<b>14159</b>	<b>14148</b>	<b>14256</b>	<b>14095</b>	<b>14147</b>	<b>14141</b>	<b>14105</b>	<b>13936</b>	<b>13765</b>	<b>13662</b>	<b>13758</b>	<b>14323</b>	<b>14634</b>	<b>14614</b>	<b>14590</b>	<b>14361</b>	<b>14289</b>	<b>14098</b>	<b>13878</b>	<b>13682</b>	<b>13451</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	0	0	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	-29	0	0	0	0	0	0	0	0	0	0	0	0	0	-29	-29	-29	-29	-29	-28	-28	-28	-28	-28	-28	-29	-29	-30	-30	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29		
TIE-PLTG		-30	-45	-57	-19	0	-41	-16	-12	-27	-47	-17	-11	-25	-9	-34	-25	-61	-14	-38	-36	-13	-20	-40	-26	-2	48	7	-30	13	-16	19	-6	-7	1	-1	-7	-12	6	15	-33	-54	-4	-35	0	9	-1	-42	-3				
Interconnection		-59	-75	-87	-48	0	-41	-16	-12	-27	-47	-17	-11	-25	-9	-34	-25	-61	-13	-67	-65	-41	-49	-70	-54	-30	20	-21	-58	-15	-45	-10	-35	-37	-28	-31	-36	-41	-22	-13	-61	-83	-33	-64	-28	-20	-30	-71	-32				
<b>System Total</b>		<b>13587</b>	<b>13247</b>	<b>13005</b>	<b>12760</b>	<b>12562</b>	<b>12417</b>	<b>12270</b>	<b>12130</b>	<b>11868</b>	<b>11960</b>	<b>11902</b>	<b>11904</b>	<b>11852</b>	<b>11998</b>	<b>11867</b>	<b>11723</b>	<b>11826</b>	<b>12403</b>	<b>12947</b>	<b>13377</b>	<b>13775</b>	<b>14105</b>	<b>14308</b>	<b>14498</b>	<b>14384</b>	<b>14137</b>	<b>13947</b>	<b>14217</b>	<b>14163</b>	<b>14301</b>	<b>14105</b>	<b>14182</b>	<b>14178</b>	<b>14133</b>	<b>13967</b>	<b>13801</b>	<b>13703</b>	<b>13780</b>	<b>14336</b>	<b>14695</b>	<b>14697</b>	<b>14623</b>	<b>14425</b>	<b>14317</b>	<b>14118</b>	<b>13908</b>	<b>13753</b>	<b>13483</b>				
SRev ST-Coal		152	150	165	159	65	74	102	108	107	126	93	141	104	107	120	131	98	110	77	59	66	68	55	69	60	85	74	69	53	86	79	64	74	67	61	66	64	79	74	68	75	70	86	-64	120	51	80	98				
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	2	1	1	0	0	-4	-5	-2	113	117	235	238	238	236	235	109	116	108	116	99	0	0	0	0	0	0	0	0	0	0
SRev CCGT-Gas		493	616	803	957	906	520	653	762	903	855	909	861	962	798	939	1039	936	770	709	404	510	288	320	185	229	329	410	167	278	197	413	236	404	334	180	229	335	332	254	271	247	268	264	381	403	714	695	861				
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
SRev Co-Gen		-4	-4	-5	-4	-3	-5	-6	-6	-7	-8	-6	-7	-5	-6	-8	-6	-7	-6	-6	-7	-4	-7	-6	-4	-4	-5	-6	-2	-3	-4	-3	-3	-2	1	1	1	1	-2	-1	-2	-2	-1	-3	1	1	1	1	0	1			
Syncon		1100	1100	1251	1251	298	1251	1125	1125	999	999	999	999	848	999	999	999	812	489	676	525	525	525	525	500	374	374	187	187	187	187	187	187	187	187	676	1037	1037	1125	827	187	187	187	609	609	999	1125	1125	1125				
Hydro		216	207	161	186	528	140	103	124	142	101	106	99	250	99	103	125	95	96	603	512	682	651	453	436	570	661	681	904	598	608	791	840	861	701	460	212	213	261	317	629	634	631	487	511	221	215	146	197				
<b>S.Reserve Total</b>		<b>1957</b>	<b>2069</b>	<b>2375</b>	<b>2549</b>	<b>1794</b>	<b>1980</b>	<b>1977</b>	<b>2113</b>	<b>2270</b>	<b>2073</b>	<b>2101</b>	<b>2093</b>	<b>2159</b>	<b>1997</b>	<b>2153</b>	<b>2288</b>	<b>2221</b>	<b>1782</b>	<b>1872</b>	<b>1645</b>	<b>1778</b>	<b>1529</b>	<b>1347</b>	<b>1211</b>	<b>1356</b>	<b>1571</b>	<b>1659</b>	<b>1446</b>	<b>1235</b>	<b>1195</b>	<b>1464</b>	<b>1437</b>	<b>1640</b>	<b>1522</b>	<b>1616</b>	<b>1883</b>	<b>1986</b>	<b>2030</b>	<b>1580</b>	<b>1269</b>	<b>1249</b>	<b>1271</b>	<b>1542</b>	<b>1438</b>	<b>1744</b>	<b>2106</b>	<b>2046</b>	<b>2282</b>				