

## Daily System Generation Summary on Saturday

Saturday, March 24, 2018

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,647 MW
Hydro	2,116 MW
Distillate	0 MW
Total TNB	<u>4,763 MW</u>
Total IPP	<u>15,667 MW</u>
Total Co-Gen	<u>64 MW</u>
Total System	<u>20,780 MW</u>

### Generation Mix

Type	MWh	Percentage
Gas	38,520	11.38 %
Hydro	9,587	2.83 %
<b>Total TNB</b>	<b>48,107</b>	<b>14.22 %</b>
ST-Coal	191,746	56.67 %
Gas	98,415	29.09 %
<b>Total IPP</b>	<b>290,161</b>	<b>85.75 %</b>
Co-Gen	1,151	0.34 %
<b>Total Co-Gen</b>	<b>1,151</b>	<b>0.34 %</b>
<b>Total Generation</b>	<b>339,419</b>	<b>100.31 %</b>
PLTG	319	0.09 %
HVDC	730	0.22 %
<b>Interconnection</b>	<b>1,049</b>	<b>0.31 %</b>
<b>Net Energy</b>	<b>338,370</b>	<b>100.00 %</b>

### Maximum Demand Record

Date: 10/23/2017	17,790 MW
Date: 3/15/2018	372,493 MWH

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

Daily Maximum Demand Hour at:	20:30:00 Hour
Total Set On Bus	17,120 MW
TNB Generation	2,598 MW
IPP Generation	13,144 MW
Spinning Reserve	1,318 MW
Maximum Demand	15,757 MW
Net Energy	338,370 MWH
Load Factor	89.48 %

### Fuel Cost

Total Cost:	59,275,431.62 RM
Cost per Unit	18.42 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	393
Hydro	338
Syncon	716
Thermal	101
<b>Total</b>	<b>1,548</b>

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

### Gas Usage

Station	(mmscfd)
GLGR	29
PGPS	30
SRDG	2
TJGS	212
<b>Total TNB</b>	<b>274</b>
CBPS	52
KLPP	105
MPSS	1
NPRI	160
PGLA	107
PTEK	5
SGRI	88
SKSP	51
YPKA	78
<b>Total IPP</b>	<b>648</b>
<b>Total Gas</b>	<b>922</b>

**Total Gas Required 922**

### 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	14444	13852	13532	13032	12583	12540	12445	12344	12008	13321	14083	14762	14629	14371	14712	14887	15050	14808	14370	14418	15674	15465	15212	15019





### 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																										
TIE-PLTG		-7	16	36	61	-2	-38	-21	27	22	-15	15	-12	0	-23	-6	0	18	2	-55	-5	36	13	12	67	33	14	20	18	32	-11	7	22	1	15	60	64	45	5	-29	-44	30	15	25	35	39	36	30	31		
Interconnection		24	46	67	91	28	-8	9	57	52	16	46	19	31	8	25	30	48	32	-25	26	66	45	43	97	64	45	51	49	63	20	38	53	31	45	90	94	75	35	2	-13	61	45	55	66	70	67	61	61		
System Total		14444	14265	13852	13643	13532	13261	13032	12876	12583	12629	12540	12440	12445	12459	12344	12029	12008	12801	13321	13702	14083	14401	14762	14741	14629	14539	14371	14719	14712	14918	14887	14978	15050	15068	14808	14581	14370	14286	14418	15403	15674	15757	15465	15448	15212	15131	15019	14866		
SRev ST-Coal		31	9	9	40	40	33	54	44	47	64	57	32	53	44	43	59	58	57	51	81	119	195	179	78	92	86	82	75	12	62	92	99	121	98	128	100	120	99	115	130	141	93	122	127	125	124	210	218		
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	0
SRev CCGT-Gas		603	663	854	967	1113	1230	1419	1221	1480	1530	1555	1704	1652	1662	1733	2021	2029	1277	877	545	327	286	306	358	411	525	580	544	396	343	300	278	227	225	300	333	613	766	692	182	262	196	281	181	251	226	284	369		
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 Co-Gen		1	4	3	2	1	2	2	4	5	7	7	7	6	4	5	4	5	6	5	5	6	4	5	5	7	6	4	4	5	5	21	20	7	7	8	6	8	6	7	8	7	4	3	4	5	3	0	-2		
Syncon		716	952	801	952	1037	1037	886	886	886	886	886	1037	1037	1037	1037	1037	886	1037	1037	867	453	615	716	952	952	867	867	615	615	615	615	615	615	615	716	867	867	867	464	464	464	464	615	615	615	615	716			
Hydro		441	241	363	214	158	159	161	287	295	286	287	290	154	164	159	166	161	136	231	140	138	223	353	402	375	201	194	156	299	421	463	396	388	381	437	381	251	245	247	458	404	528	576	449	437	430	409	370		
S.Reserve Total		1792	1869	2030	2175	2349	2461	2673	2442	2713	2773	2792	2919	2902	2911	2977	3287	3290	2513	2050	1808	1627	1575	1296	1458	1601	1770	1812	1646	1579	1446	1491	1408	1358	1326	1488	1536	1859	1983	1928	1242	1360	1318	1550	1556	1432	1398	1518	1671		