



## Daily System Generation Summary on Monday

Monday, January 29, 2018

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,441 MW
Hydro	2,184 MW
Distillate	0 MW
<b>Total TNB</b>	<b>4,625 MW</b>
<b>Total IPP</b>	<b>16,048 MW</b>
<b>Total Co-Gen</b>	<b>65 MW</b>
<b>Total System</b>	<b>21,302 MW</b>

### Generation Mix

Type	MWh	Percentage
Gas	34,705	10.16 %
Hydro	16,702	4.89 %
<b>Total TNB</b>	<b>51,407</b>	<b>15.06 %</b>
ST-Coal	186,490	54.62 %
Gas	102,746	30.09 %
<b>Total IPP</b>	<b>289,236</b>	<b>84.71 %</b>
Co-Gen	1,410	0.41 %
<b>Total Co-Gen</b>	<b>1,410</b>	<b>0.41 %</b>
<b>Total Generation</b>	<b>342,053</b>	<b>100.18 %</b>
PLTG	15	0.00 %
HVDC	596	0.17 %
<b>Interconnection</b>	<b>611</b>	<b>0.18 %</b>
<b>Net Energy</b>	<b>341,442</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:	15:30:00 Hour
Total Set On Bus	17,919 MW
TNB Generation	3,237 MW
IPP Generation	13,429 MW
Spinning Reserve	1,200 MW
Maximum Demand	16,702 MW
Net Energy	341,442 MWH
Load Factor	85.18 %

### Fuel Cost

Total Cost:	60,944,389.89 RM
Cost per Unit	18.73 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	349
Hydro	444
Syncon	466
Thermal	149
<b>Total</b>	<b>1,408</b>

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	28

### Gas Usage

Station	(mmscfd)
GLGR	54
PGPS	25
SRDG	11
TJGS	163
<b>Total TNB</b>	<b>253</b>
CBPS	54
KLPP	100
NPRI	160
PGLA	108
PLPS	94
PTEK	10
SGRI	62
SKSP	32
YPKA	52
<b>Total IPP</b>	<b>672</b>
<b>Total Gas</b>	<b>925</b>

### Alternate Fuel Usage

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

<b>Total Gas Required</b>	<b>925</b>
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### 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	12745	12118	11773	11527	11287	11179	11573	11716	12442	14196	15030	15810	15907	15697	16292	16584	16622	16275	15134	14925	15913	15812	15318	14622

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Daily MW Generation on Monday

Table with columns for Station, Unit, and hourly generation (0000 to 2300) for various power plants including YPKA, PTEK, SRDG, BSLA, CEND, KNRG, KNYR, LPIA, MNOR, PGAU, SIHY, SYPS, TMGR, UJLI, and UPIA.

### Daily MW Generation on Monday

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																								
PCUF	CUFG	26	31	31	31	32	32	31	31	32	31	31	32	32	32	33	33	32	30	29	29	28	28	28	27	26	27	26	19	20	22	22	21	22	22	23	23	23	23	25	23	22	23	23	23	25	24		
PCUF	CUFK	34	35	31	35	34	33	34	33	34	34	34	35	31	34	32	34	34	35	32	33	33	33	32	33	32	31	33	32	32	31	33	32	33	34	31	34	33	35	33	34	34	33	34	2	0	24		
Total Co-Gen		60	66	62	66	66	65	65	64	66	65	66	65	66	63	66	64	67	67	62	62	61	60	61	59	57	60	58	51	52	53	55	53	55	56	54	57	56	58	58	57	56	56	57	25	25	48		
Total Gen		12703	12436	12162	11987	11782	11715	11533	11421	11257	11195	11170	11297	11597	11951	11742	11942	12459	13434	14183	14600	15035	15496	15800	16000	15892	15769	15727	15943	16352	16646	16647	16719	16652	16602	16331	15886	15204	14875	15007	15797	16014	15987	15892	15601	15402	15049	14660	14342
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		-29	-29	-29	31	30	30	31	31	31	31	30	30	30	2	0	0	31	31	30	30	30	30	30	31	31	31	31	30	30	31	31	29	32	31	31	30	32	29	29	30	29	31	29	30	30	31	31	
TIE-PLTG		-13	-39	72	-44	-21	-30	-25	-30	-61	-47	-39	-16	-6	-20	26	-46	-15	-9	-43	-17	-24	-3	-41	-4	-46	7	0	7	30	-17	33	-14	1	25	25	52	40	4	52	48	71	52	48	58	54	-26	7	16
Interconnection		-42	-68	44	-13	9	0	6	1	-30	-17	-9	14	24	-18	26	-46	17	22	-13	13	5	27	-10	26	-15	37	30	38	60	13	63	17	30	57	56	82	70	35	82	77	101	81	80	87	84	4	38	47
System Total		12745	12504	12118	12000	11773	11715	11527	11420	11287	11212	11179	11283	11573	11969	11716	11988	12442	13412	14196	14587	15030	15469	15810	15974	15907	15732	15697	15905	16292	16633	16584	16702	16622	16545	16275	15804	15134	14840	14925	15720	15913	15906	15812	15514	15318	15045	14622	14295
SRev ST-Coal		343	320	299	359	335	388	416	406	404	406	405	391	375	397	387	348	342	356	333	221	265	140	124	132	140	131	194	132	112	50	140	141	127	130	145	132	132	130	143	137	128	133	129	126	117	130	125	134
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	7	4	2	4	47	67	77	107	158	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev CCGT-Gas		335	466	524	541	657	763	834	886	1094	1272	1232	1141	954	692	943	891	672	339	717	632	352	318	288	175	328	414	320	506	400	279	353	228	274	330	275	352	396	592	440	318	287	302	176	333	280	380	495	727
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
SRev Co-Gen		5	-1	3	-1	-1	0	1	-1	0	-1	0	-1	2	-1	1	-2	-2	3	3	4	5	4	6	8	5	7	14	13	12	10	12	7	6	8	5	6	4	4	5	6	4	5	6	5	37	37	14	
Syncon		1078	927	927	1078	1078	1078	1164	1164	1164	1164	1164	1079	1164	1078	1078	927	993	993	993	615	302	302	489	489	489	489	489	338	338	489	489	338	151	277	489	675	675	252	252	252	252	252	540	776	776	927		
Hydro		233	294	310	172	183	141	142	140	142	135	148	150	142	191	145	193	191	245	149	148	277	447	644	618	424	508	607	494	443	478	424	283	300	430	564	546	570	372	371	620	650	656	545	532	433	417	294	
S.Reserve Total		1994	2006	2063	2149	2252	2370	2470	2597	2803	2977	2948	2846	2634	2361	2638	2511	2281	1865	2190	1997	1890	1523	1362	1232	1385	1548	1618	1633	1455	1161	1272	1200	1267	1317	1349	1471	1595	1774	1635	1331	1321	1348	1108	1249	1375	1740	1852	2096