

## Daily System Generation Summary on Saturday

Saturday, November 29, 2014

### Availability at Daily Maximum Demand Hour

ST-Coal	1,860 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,902 MW
Hydro	1,704 MW
Distillate	0 MW
<b>Total TNB</b>	<b>7,466 MW</b>
<b>Total IPP</b>	<b>10,220 MW</b>
<b>Total Co-Gen</b>	<b>0 MW</b>
<b>Total System</b>	<b>18,256 MW</b>

### Generation Mix

Type	MWh	Percentage
ST-Coal	41,871	14.19 %
Gas	54,076	18.33 %
Hydro	10,626	3.60 %
<b>Total TNB</b>	<b>106,573</b>	<b>36.13 %</b>
ST-Coal	101,881	34.54 %
Gas	86,363	29.28 %
<b>Total IPP</b>	<b>188,244</b>	<b>63.82 %</b>
Co-Gen	1,240	0.42 %
<b>Total Co-Gen</b>	<b>1,240</b>	<b>0.42 %</b>
<b>Total Generation</b>	<b>296,057</b>	<b>100.37 %</b>
PLTG	364	0.12 %
HVDC	715	0.24 %
<b>Interconnection</b>	<b>1,079</b>	<b>0.37 %</b>
<b>Net Energy</b>	<b>294,978</b>	<b>100.00 %</b>

### Maximum Demand Record

Date: 6/11/2014	16,901 MW
Date: 6/24/2014	355,911 MWH

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

Daily Maximum Demand Hour at:	11:30:00 Hour
Total Set On Bus	14,495 MW
TNB Generation	5,029 MW
IPP Generation	8,364 MW
Spinning Reserve	1,055 MW
Maximum Demand	13,399 MW
Net Energy	294,978 MWH
Load Factor	91.73 %

### Fuel Cost

Total Cost:	37,620,990.68 RM
Cost per Unit	13.18 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	405
Hydro	191
Syncon	391
Thermal	3
<b>Total</b>	<b>990</b>

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Cloudy	27

### Gas Usage

Station	(mmscfd)
GLGR	59
PAKA	48
PGPS	52
SRDG	14
TJGS	221
<b>Total TNB</b>	<b>394</b>
KLPP	117
MPSS	62
PDPS	3
PGLA	107
PLPS	89
PTEK	2
SGRI	184
SKSP	34
YPGS	70
<b>Total IPP</b>	<b>668</b>

<b>Total Gas</b>	<b>1,063</b>
<b>Total Gas Required</b>	<b>1,063</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	12574	12004	11455	11264	10940	10859	10895	10745	10638	11866	12700	13239	13254	12974	13172	13182	13175	12746	12555	12922	13282	13208	12694	12487





### 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	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		268	258	268	250	378	307	309	302	312	279	304	282	302	329	316	317	343	359	359	365	534	659	717	719	653	651	651	654	648	584	534	528	518	412	335	282	254	263	383	723	741	732	424	451	445	453	453	452		
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFK	19	20	21	20	20	19	20	21	20	20	21	21	21	20	21	19	19	18	17	18	18	16	16	16	17	19	18	18	18	18	19	19	21	21	20	20	20	20	21	20	20	21	20	21	20	20	20			
PCUF	CUFK	29	32	33	34	34	33	33	33	33	33	34	33	33	34	34	34	34	34	33	32	32	30	29	36	40	37	25	25	26	27	27	27	30	31	32	29	30	37	35	35	36	33	33	34	33	34	33	34	34	
Total Co-Gen		48	52	54	54	54	52	53	54	53	53	55	53	53	54	55	55	54	55	51	52	50	49	48	47	52	56	53	42	44	44	45	45	45	48	50	51	50	51	57	55	55	56	54	53	54	54	54	54		
Total Gen		12634	12286	12865	11737	11553	11459	11292	11125	10970	10929	10902	10770	10917	10889	10839	10578	10719	11361	11923	12336	12756	13138	13283	13440	13339	13098	13010	13131	13158	13376	13258	13230	13197	13041	12811	12643	12612	12572	12949	13395	13339	13301	13254	13050	12741	12742	12478	12328		
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	
TIE-HVDC		30	30	30	30	32	29	29	31	29	31	30	0	29	31	29	31	32	29	30	30	31	32	31	31	30	30	30	31	30	30	30	30	30	31	31	30	30	31	31	30	30	30	30	31	31	30	31	30	31	
TIE-PLTG		30	25	31	6	67	41	-1	25	2	12	12	4	-7	-1	65	37	50	70	27	29	25	25	14	10	55	-1	6	12	-44	-47	45	-11	-8	25	34	-5	27	8	-4	42	26	8	15	-39	16	-10	-39	13		
Interconnection		60	55	61	36	98	70	28	57	30	44	43	5	22	31	94	68	81	100	57	59	56	57	44	41	85	30	36	43	-14	-17	76	20	22	55	65	26	57	38	27	73	57	38	46	-8	47	21	-9	43		
System Total		12574	12231	12004	11701	11455	11389	11264	11068	10940	10885	10859	10765	10895	10858	10745	10510	10638	11261	11866	12277	12700	13081	13239	13399	13254	13068	12974	13088	13172	13393	13182	13210	13175	12986	12746	12617	12555	12534	12922	13322	13282	13263	13208	13058	12694	12721	12487	12285		
SRev ST-Coal		33	25	28	15	46	39	16	34	34	25	29	35	38	29	48	16	32	30	8	87	-83	-9	-29	-35	-9	-29	21	39	8	19	33	28	25	30	40	49	32	42	37	28	36	4	-15	-24	23	30	15	17		
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		17	367	196	519	450	478	671	814	978	995	1045	1147	1017	1082	1101	1395	1263	1090	1020	633	470	398	463	408	556	669	814	678	678	292	348	304	330	378	523	630	649	639	456	480	241	377	142	107	276	73	292	299		
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		28	24	22	22	22	24	23	22	23	23	21	23	23	22	21	21	22	21	25	24	26	27	28	29	24	20	23	34	32	32	31	31	31	28	26	25	26	25	19	21	21	20	22	23	22	22	22	22		
Syncon		724	724	724	724	573	724	724	724	724	724	724	573	573	573	724	724	724	724	724	573	422	321	321	422	422	422	422	422	422	422	422	422	321	422	486	335	637	724	724	724	422	422	417	719	719	719	719	719	719	
Hydro		103	113	103	122	144	114	62	69	59	91	66	88	220	193	206	104	78	101	101	95	282	258	301	299	264	266	266	263	269	283	283	340	249	205	433	161	106	97	127	269	276	290	148	121	127	119	119	120		
S.Reserve Total		905	1253	1073	1402	1235	1379	1496	1663	1818	1858	1885	2017	1871	1899	1949	2260	2119	1966	1878	1563	1268	1129	1142	1055	1316	1407	1605	1494	1467	1076	1144	1024	1057	1127	1357	1502	1537	1527	1478	1235	1186	1254	1183	946	1167	963	1167	1177		