

Daily System Generation Summary on Thursday

Thursday, December 17, 2015

Availability at Daily Maximum Demand Hour

ST-Coal	1,660 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	4,615 MW
Hydro	2,010 MW
Distillate	0 MW
Total TNB	8,285 MW
Total IPP	10,043 MW
Total Co-Gen	56 MW
Total System	18,384 MW

Generation Mix

Type	MWh	Percentage
ST-Coal	35,507	10.84 %
Gas	78,928	24.09 %
Hydro	13,608	4.15 %
Total TNB	128,043	39.09 %
ST-Coal	105,992	32.36 %
ST-Gas	10,140	3.10 %
Gas	82,643	25.23 %
Total IPP	198,775	60.68 %
Co-Gen	1,214	0.37 %
Total Co-Gen	1,214	0.37 %
Total Generation	328,032	100.14 %
PLTG	-275	-0.08 %
HVDC	730	0.22 %
Interconnection	455	0.14 %
Net Energy	327,577	100.00 %

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:	14:30:00 Hour
Total Set On Bus	16,966 MW
TNB Generation	6,217 MW
IPP Generation	9,374 MW
Spinning Reserve	1,328 MW
Maximum Demand	15,675 MW
Net Energy	327,577 MWH
Load Factor	87.08 %

Fuel Cost

Total Cost:	47,436,215.20 RM
Cost per Unit	15.09 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	400
Hydro	288
Syncon	621
Thermal	77
Total	1,386

Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Cloudy	28

Gas Usage

Station	(mmscfd)
CBPS	92
GLGR	55
NPRI	44
PAKA	168
PGPS	4
SRDG	16
TJGS	216
Total TNB	596

KLPP	104
PDPS	20
PGLA	113
PKLG	12
PLPS	93
PTEK	9
SGB3	86
SGRI	161
SKSP	49
PKLG	101
Total IPP	748
Total Gas	1,344

Total Gas Required 1,344

Alternate Fuel Usage

Station	(mmscfd)
Total	0

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	12902	12292	11814	11556	11157	11231	11260	11597	12129	13853	14697	15322	15307	14953	15373	15525	15454	15148	14215	14437	14835	14461	13936	13461

Prepared By: Mohd Yusof bin Ismail

Checked By: Kannathason a/l Karuppiah

Printed on: Friday, December 18, 2015 8:40:20 AM

(Gurcharan Singh)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Thursday

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																									
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	111	112	112	112	112	111	84	84	84	84	84	84	87	87	87	86	86	86	86	86	85	-1	-1	-1										
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1									
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	17	-1	-1	-1	-1	-1	-1	21	23	23	81	81	81	112	111	111	19	19	113	113	29	31	30	30	29	23	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1						
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	60	57	84	84	80	83	33	35	33	83	78	61	60	59	57	58	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1							
TMGR	HY02	33	33	37	38	33	34	33	33	33	28	25	24	24	35	34	34	41	35	38	33	61	59	84	85	82	87	33	36	34	83	77	61	59	60	58	58	59	59	60	59	56	56	59	35	32	37	35		
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	59	57	58	59	56	57	81	81	80	80	76	59	58	59	57	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1					
UPIA	HY01	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5						
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	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4						
Total Hydro		229	224	248	231	205	214	203	204	204	209	187	184	185	213	262	257	416	274	294	418	737	905	1043	1205	1168	1183	945	960	1135	1238	1057	1033	999	993	890	524	346	386	644	788	785	730	738	680	334	203	210	207	
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		
PCUF	CUFG	18	22	21	23	23	24	26	23	25	25	23	23	25	24	24	24	24	24	24	24	24	25	25	25	25	26	25	25	23	24	24	24	24	24	25	24	24	23	23	24	24	24	23	23	23				
PCUF	CUFK	29	29	30	30	29	31	30	29	32	30	30	29	30	29	31	30	29	30	29	32	26	25	26	25	24	23	22	23	22	22	22	23	24	24	24	28	24	25	26	25	24	24	25	25	27	26	24	24	
Total Co-Gen		47	51	51	53	52	55	56	52	57	55	53	52	55	53	55	56	53	55	53	55	56	50	49	50	49	49	48	48	48	47	47	48	48	47	48	52	48	50	50	49	48	47	48	49	51	50	47	47	
Total Gen		12936	12568	12262	12070	11849	11728	11556	11349	11141	11250	11265	11241	11292	11411	11531	11693	12192	13182	13976	14378	14840	15162	15303	15471	15342	15032	14967	15179	15357	15638	15586	15568	15479	15424	15203	14711	14230	14153	14462	14959	14805	14792	14398	14325	13925	13818	13508	13310	
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		30	31	31	31	30	30	30	30	30	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	30	30	30	30	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	
TIE-PLTG		4	-1	-60	-47	5	-35	-30	-6	-46	39	4	47	0	-28	-96	-40	31	-4	92	43	113	-16	-50	-22	6	-69	-16	-46	-46	-67	31	14	-6	-8	24	-34	-16	-29	-5	-47	-61	-23	-94	-17	-42	36	17	48	
Interconnection		34	30	-30	-16	35	-5	0	24	-16	70	34	77	32	3	-66	-9	63	27	123	74	143	14	-19	9	35	-39	14	-16	-16	-37	61	44	25	23	55	-3	15	1	25	-18	-30	8	-63	14	-11	67	47	79	
System Total		12902	12538	12292	12086	11814	11733	11556	11325	11157	11180	11231	11164	11260	11408	11597	11702	12129	13155	13853	14304	14697	15148	15322	15462	15307	15071	14953	15195	15373	15075	15525	15524	15454	15401	15148	14714	14215	14152	14437	14977	14835	14784	14461	14311	13926	13751	13461	13231	
SRev ST-Coal		90	102	89	104	95	90	99	184	134	162	130	120	121	131	105	116	149	80	65	79	95	88	99	99	144	88	49	-5	-89	105	99	105	113	128	103	93	180	102	105	108	5	7	4	-2	101	103	106	98	
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
SRev CCGT-Gas		340	490	503	610	718	792	922	1173	1508	1772	1790	1819	1771	1669	1626	1450	1463	932	529	421	397	391	313	333	391	563	433	305	613	437	396	246	194	220	362	502	522	518	466	246	378	439	497	221	275	253	361	128	
SRev ST-Gas		-1	77	70	70	73	73	72	72	72	72	72	72	72	72	72	72	78	26	9	2	0	16	21	25	3	1	14	17	-4	-2	-2	0	2	2	0	0	-18	-18	2	3	3	3	-5	4	0	-1	-1		
SRev Co-Gen		9	5	5	3	4	1	0	4	-1	1	3	4	1	3	1	0	3	1	3	0	6	7	6	7	7	8	8	8	9	8	8	8	9	8	8	4	8	6	6	7	8	9	8	7	5	6	9	9	
Syncon		953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953		
Hydro		104	109	85	102	128	119	130	129	129	275	146	149	148	120	272	126	118	260	240	242	330	312	224	213	250	235	473	458	285	180	361	385	419	425	428	498	158	98	338	244	247	302	294	204	150	130	123	126	
S.Reserve Total		1495	1736	1705	1842	1971	2028	2176	2515	2795	3084	3094	3117	3066	2948	2878	2717	2607	2153	1665	1553	1601	1426	1286	1169	1300	1381	1447	1263	1319	1328	1385	1235	1232	1287	1400	1528	1832	1638	1826	1414	1452	1655	1662	1227	1337	1445	1851	1513	