

Daily System Generation Summary on Thursday

Thursday, August 11, 2016

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,589 MW
Hydro	2,059 MW
Distillate	0 MW
Total TNB	<u>5,648 MW</u>
Total IPP	<u>15,848 MW</u>
Total Co-Gen	<u>0 MW</u>
Total System	<u>21,496 MW</u>

Generation Mix

Type	MWh	Percentage
Gas	59,843	17.08 %
Hydro	10,317	2.95 %
Total TNB	70,160	20.03 %
ST-Coal	190,765	54.46 %
ST-Oil	9,777	2.79 %
Gas	80,055	22.86 %
Total IPP	280,597	80.11 %
Co-Gen	321	0.09 %
Total Co-Gen	321	0.09 %
Total Generation	351,078	100.23 %
PLTG	86	0.02 %
HVDC	723	0.21 %
Interconnection	809	0.23 %
Net Energy	350,269	100.00 %

Maximum Demand Record

Date: 4/20/2016	17,788 MW
Date: 4/20/2016	372,457 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	14:30:00 Hour
Total Set On Bus	18,543 MW
TNB Generation	3,475 MW
IPP Generation	13,090 MW
Spinning Reserve	1,965 MW
Maximum Demand	16,572 MW
Net Energy	350,269 MWH
Load Factor	88.07 %

Fuel Cost

Total Cost:	46,325,278.30 RM
Cost per Unit	13.60 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	539
Hydro	358
Syncon	779
Thermal	182
Total	1,858

Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	31
PAKA	202
PGPS	24
TJGS	200
Total TNB	456
CBPS	50
KLPP	81
NPRI	140
PGLA	84
PLPS	78
SGRI	148
SKSP	13
Total IPP	595
Total Gas	1,051
Total Gas Required	1,149

Alternate Fuel Usage

Station	(mmscfd)
PKLG	98
Total	98

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	14378	13664	13189	12704	12437	12243	12463	12489	12739	14439	15579	16227	16157	15836	16300	16435	16261	15918	14775	14630	15582	15601	15090	14681

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																										
UPIA	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	6	6	6																							
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0																								
Total Hydro		336	198	185	174	183	197	176	177	178	204	176	177	180	179	179	177	191	201	209	208	273	339	385	531	513	471	365	383	397	812	866	657	465	467	776	414	551	642	470	850	1015	1063	1055	765	728	499	373	268		
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	14	12	14	15	13	13	13	14	14	12	13	13	15	14	14	14	14	13	15	13	14	13	12	13	13	14	13	12	13	14	14	15	13	14	13	12	14	13	14	13	14	12	13	13	13	12	13			
Total Co-Gen		14	12	14	15	13	13	13	14	14	12	13	13	15	14	14	14	14	13	15	13	14	13	12	13	13	14	13	12	13	14	14	15	13	14	13	12	14	13	14	13	14	12	13	13	13	12	13			
Total Gen		14381	14043	13656	13450	13201	13022	12759	12599	12489	12397	12292	12328	12490	12653	12550	12343	12786	13818	14429	14973	15564	15846	16252	16502	16221	15920	15852	16068	16301	16378	16458	16396	16281	16221	16003	15414	14875	14535	14625	15485	15835	15713	15676	15430	15198	14950	14760	14395		
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	30	30	29	29	31	31	30	30	30	30	30	31	31	30	30	30	30	30	31	31	31	31	31	31	30	30	30	31	31	30	30	31	31	30	30	30	29	29	29	29	30	30	30	30			
TIE-PLTG		-26	32	-39	41	-18	-15	25	15	21	-10	19	41	7	-9	31	24	16	-30	-40	-52	-45	-70	-6	90	33	15	-14	-57	-29	-24	-8	-26	-10	14	54	25	70	-72	-35	12	23	-1	45	17	78	8	49	6		
Interconnection		3	62	-8	71	12	14	55	45	52	20	49	71	36	21	61	54	47	0	-10	-23	-15	-39	25	121	64	45	16	-28	1	6	23	4	20	44	85	56	100	-42	-5	42	53	28	75	47	108	39	79	36		
System Total		14378	13981	13664	13379	13189	13008	12704	12554	12437	12377	12243	12257	12463	12632	12489	12289	12739	13818	14439	14996	15579	15885	16227	16381	16157	15875	15836	16096	16300	16572	16435	16392	16261	16177	15918	15358	14775	14577	14630	15443	15582	15685	15601	15383	15090	14911	14681	14359		
SRev ST-Coal		194	255	230	224	221	233	238	229	232	229	224	236	223	222	228	233	228	226	215	227	113	84	222	179	188	198	187	187	186	188	189	197	182	180	182	168	206	181	173	177	184	190	181	188	182	173	206	143		
SRev ST-Oil		0	0	0	0	0	0	4	41	38	37	37	37	37	37	57	42	4	0	0	0	0	0	0	0	0	0	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 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		674	811	1112	1314	1573	1754	1987	2080	2134	2033	1983	1936	1783	1664	1806	2235	1710	743	443	787	373	552	293	389	644	892	864	668	449	582	758	603	544	608	840	531	1028	1486	955	456	463	428	464	414	616	644	730	733		
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		6	8	6	5	7	7	7	6	6	8	7	7	5	6	6	6	6	6	7	5	7	6	7	8	7	7	6	7	8	7	6	5	7	6	7	6	7	6	7	6	7	6	8	7	7	7	8	7		
Syncon		707	808	808	808	808	657	808	808	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	959	
Hydro		360	247	110	121	112	249	119	118	116	90	118	117	114	115	115	117	103	93	235	236	271	205	343	262	280	322	513	364	400	474	620	299	329	327	284	331	356	266	270	313	429	532	389	417	454	284	199	77		
S.Reserve Total		1941	2129	2266	2472	2721	2900	3163	3282	3485	3356	3328	3392	3121	3003	3171	3582	3010	2027	1859	2214	1723	1806	1723	1896	1977	2278	2279	2208	2025	1965	2134	2089	2047	2107	2196	1921	2482	2823	2293	1417	1548	1470	1507	1576	1808	1758	1999	2065		