

Daily System Generation Summary on Thursday

Thursday, September 11, 2014

Availability at Daily Maximum Demand Hour

ST-Coal	1,920 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	4,257 MW
Hydro	1,766 MW
Distillate	0 MW
Total TNB	7,943 MW
Total IPP	11,287 MW
Total Co-Gen	0 MW
Total System	19,230 MW

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	16,881 MW
TNB Generation	6,351 MW
IPP Generation	9,388 MW
Spinning Reserve	1,114 MW
Maximum Demand	15,727 MW
Net Energy	330,577 MWH
Load Factor	87.58 %

Gas Usage

Station	(mmscfd)
CBPS	4
CBPS	49
GLGR	57
PAKA	143
PGPS	42
SRDG	18
TJGS	215
Total TNB	528

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Generation Mix

Type	MWh	Percentage
ST-Coal	45,608	13.80 %
Gas	69,209	20.94 %
Hydro	13,005	3.93 %
Total TNB	127,822	38.67 %
ST-Coal	99,579	30.12 %
ST-Gas	5,544	1.68 %
Gas	97,856	29.60 %
Total IPP	202,979	61.40 %
Co-Gen	863	0.26 %
Total Co-Gen	863	0.26 %
Total Generation	331,664	100.33 %
PLTG	362	0.11 %
HVDC	725	0.22 %
Interconnection	1,087	0.33 %
Net Energy	330,577	100.00 %

Fuel Cost

Total Cost:	54,912,593.32 RM
Cost per Unit	17.34 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	277
Hydro	391
Syncon	217
Thermal	23
Total	908

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Cloudy	28

KLPP	71
MPSS	58
PDPS	3
PGLA	110
PLPS	88
PTEK	4
SGRI	186
SKSP	38
YPGS	71
YPKA	135
PKLG	55
Total IPP	820
Total Gas	1,348
Total Gas Required	1,348

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	13200	12634	12066	11802	11445	11242	11542	11660	12120	13888	14882	15436	15324	14991	15440	15590	15682	15258	14219	14102	14886	14768	14239	13634

Prepared By: Kannathason a/l Karuppiah

Checked By: Muhamad Izwan

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(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	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	83	83	83	83	83	84	84	83	81	83	82	83	79	-1	-1	-1	21	109	107	109	113	118	-1	-1	-1	-1													
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	82	82	111	111	110	111	111	109	110	107	110	0	0	0	0	106	109	104	108	110	116	112	113	80	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	30	30	30	29	30	30	49	48	30											
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											
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											
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											
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											
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											
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1											
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1											
TMGR	HY04	27	36	40	29	31	30	35	35	33	31	29	29	37	43	43	37	38	37	35	36	36	36	36	36	39	36	35	37	36	42	41	40	40	40	38	36	33	32	38	26	73	72	73	70	77	70	42	33	40		
UPIA	HY01	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	5	5	5	5	5	5				
UPIA	HY02	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
Total Hydro		154	199	218	157	164	162	196	173	168	164	158	157	203	308	220	178	216	204	273	371	617	865	1103	1092	1019	967	922	978	1065	1057	909	931	924	795	616	290	167	206	449	1037	988	990	863	866	553	636	509	388			
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			
PCUF	CUFG	35	3	1	2	1	1	1	1	1	1	1	1	3	1	0	1	0	0	0	0	0	0	0	0	0	0	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	36	38	36	38	39	39	39	37	38	36	37	38	37	36	37	34	32	31	32	30	29	27	27	28	29	28	28	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
Total Co-Gen		71	41	37	40	40	40	38	39	37	37	39	38	34	33	31	32	30	29	26	25	27	28	28	27	30	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31		
Total Gen		13346	12871	12706	12367	12139	11972	11800	11605	11490	11416	11360	11405	11559	11772	11689	11578	12131	13145	13938	14385	14931	15201	15501	15596	15412	15225	15054	15269	15966	15767	15621	15676	15723	15582	15288	14813	14288	14076	14156	14853	14962	14988	14822	14736	14269	14100	13687	13415			
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				
TIE-HVDC		31	29	29	31	31	30	30	30	30	30	30	31	31	31	31	31	31	30	30	30	30	30	30	30	30	31	31	30	30	31	31	30	30	31	31	30	30	31	31	30	30	29	29	30	30	31					
TIE-PLTG		116	38	43	56	42	16	32	40	15	31	88	55	13	8	-2	16	-19	42	19	-20	13	23	35	-10	58	9	34	46	36	9	1	11	11	-4	1	-79	38	-74	24	-12	45	15	24	-31	1	-43	23	-23			
Interconnection		146	67	72	87	73	46	-2	70	45	61	118	85	17	39	29	47	11	73	50	11	49	53	65	20	88	38	63	76	66	39	31	41	41	25	30	-48	69	-44	54	19	76	45	54	-2	30	-13	53	7			
System Total		13290	12804	12634	12280	12066	11926	11802	11535	11445	11355	11242	11320	11542	11733	11660	11531	12120	13072	13988	14374	14882	15148	15436	15576	15324	15187	14991	15193	15440	15728	15590	15635	15682	15557	15258	14861	14219	14120	14102	14834	14866	14943	14768	14738	14239	14113	13634	13408			
SRev ST-Coal		72	85	164	149	135	133	111	86	87	74	91	75	65	78	78	14	5	8	3	28	18	-7	21	7	19	22	7	12	17	20	37	43	42	50	52	24	9	-13	43	85	74	122	103	21	13	6	33	23			
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				
SRev CCGT-Gas		296	491	601	893	1138	1177	1411	1600	1697	1785	1813	1789	1680	1574	1563	1634	1574	1027	889	519	230	231	177	203	302	370	470	324	361	308	305	222	202	208	152	184	351	610	342	176	154	135	153	195	155	415	254	273			
SRev ST-Gas		-3	41	37	36	36	36	37	37	37	36	36	36	37	37	36	42	6	-2	-4	-4	-3	-3	-3	-3	-3	35	5	-3	-3	-3	-13	-45	-49	-53	-54	0	1	1	1	1	1	1	1	1	0	0	1				
SRev Co-Gen		5	35	39	36	36	36	36	38	37	39	39	37	38	35	37	38	38	37	38	42	43	45	44	46	47	50	51	49	48	48	49	46	45	45	44	43	44	43	39	41	38	38	38	38	36	36	38	39			
Syncon		725	574	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725				
Hydro		165	272	102	163	156	158	124	147	152	156	162	163	117	163	100	142	104	116	148	301	499	576	489	500	523	400	445	389	527	535	583	511	518	522	428	268	153	265	524	295	344	342	469	443	230	147	274	157			
S.Reserve Total		1261	1498	1668	2002	2226	2265	2444	2633	2735	2816	2866	2825	2661																																						