

Daily System Generation Summary on Wednesday

Wednesday, December 07, 2016

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,285 MW
Hydro	2,357 MW
Distillate	0 MW
Total TNB	5,642 MW
Total IPP	14,194 MW
Total Co-Gen	0 MW
Total System	19,836 MW

Generation Mix

Type	MWh	Percentage
Gas	62,869	17.72 %
Hydro	11,927	3.36 %
Total TNB	74,796	21.08 %
ST-Coal	169,822	47.86 %
Gas	110,925	31.26 %
Total IPP	280,747	79.12 %
Co-Gen	452	0.13 %
Total Co-Gen	452	0.13 %
Total Generation	355,995	100.33 %
PLTG	454	0.13 %
HVDC	720	0.20 %
Interconnection	1,174	0.33 %
Net Energy	354,821	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:	16:00:00 Hour
Total Set On Bus	18,505 MW
TNB Generation	4,116 MW
IPP Generation	12,827 MW
Spinning Reserve	1,543 MW
Maximum Demand	16,909 MW
Net Energy	354,821 MWH
Load Factor	87.43 %

Fuel Cost

Total Cost:	50,228,181.10 RM
Cost per Unit	14.60 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	471
Hydro	290
Syncon	853
Thermal	190
Total	1,804

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	29

Gas Usage

Station	(mmscfd)
CBPS	49
GLGR	54
PAKA	122
PGPS	27
SRDG	11
TJGS	215

Total TNB 479

CBPS	55
KLPP	102
MPSS	58
NPRI	144
PDPS	15
PGLA	112
PKLG	14
PLPS	94
PTEK	23
SGRI	169
SKSP	47

Total IPP 835

Total Gas 1,313

Total Gas Required 1,313

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	14365	13666	13117	12778	12422	12171	12302	12381	12825	14661	15579	16172	16195	16056	16569	16882	16909	16365	15215	15377	16074	15849	15354	15060

Prepared By: Kannathason a/I Karuppiyah

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Printed on: Thursday, December 08, 2016 8:10:44 AM

(Gurcharan Singh)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Wednesday

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	
JMAH	U002	694	693	696	693	695	694	695	694	693	692	695	695	694	694	694	694	691	692	694	693	694	696	693	694	692
JMJC	U001	672	675	675	676	668	673	672	673	676	672	676	676	673	674	674	674	678	673	687	675	673	673	679	677	677
JMJC	U002	674	676	675	671	678	674	677	676	677	674	677	673	677	674	677	663	669	675	678	682	673	674	672	676	676
JMJC	U003	671	669	668	669	668	672	673	668	668	670	671	669	671	672	670	671	672	672	671	669	670	672	664	668	671
JMJC	U004	950	952	952	855	783	782	785	780	783	783	785	782	783	785	782	783	782	902	925	952	952	951	953	952	952
PKLG	U004	0	0	0	0	0	0	0	0	0	0	0	0	0	23	31	52	61	73	105	51	78	90	135	154	131
PKLG	U006	468	469	469	468	466	473	470	470	470	470	470	469	469	473	472	469	466	469	471	471	473	470	470	470	470
TBIN	U001	687	687	689	688	683	689	687	688	686	687	689	686	687	687	688	689	686	688	687	689	688	687	688	687	688
TBIN	U002	689	693	683	692	694	691	695	693	692	692	691	689	689	694	690	691	689	691	691	691	691	691	691	691	691
TBIN	U003	689	689	688	689	690	690	687	691	690	692	690	689	689	690	686	692	691	689	689	691	691	690	691	693	691
TBIN	U004	951	952	952	952	858	782	782	782	782	781	783	781	780	781	780	780	782	899	951	952	951	953	952	951	950
Total ST-Coal		7145	7151	7147	7053	6883	6820	6826	6811	6818	6813	6828	6814	6816	6823	6815	6827	6836	6865	7136	7213	7252	7203	7242	7251	7300
Total ST-Oil		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total 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
CBPS	CT1A	95	95	95	88	87	87	87	87	88	87	88	87	88	87	88	87	82	82	97	97	96	96	96	96	95
CBPS	CT1B	97	85	57	0	0	0	0	0	0	0	0	0	0	0	0	0	37	70	100	100	99	99	99	99	98
CBPS	ST1C	98	97	70	44	38	39	38	39	39	38	39	38	38	38	38	39	37	100	101	100	100	101	100	98	98
CBPS	BLK2	370	363	359	370	369	363	364	369	369	366	365	366	369	366	367	366	372	365	368	369	371	369	364	373	364
GLGR	CT01	103	104	103	67	66	69	67																		

Daily MW Generation on Wednesday

Stations	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			
PLPS	ST18	133	132	131	135	133	133	133	133	133	133	132	132	133	132	133	136	138	133	203	211	213	212	210	212	201	206	211	211	212	212	211	210	211	211	207	211	199	198	206	211	208	209	211	167	142	143	143	143	
SGRI	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	137	136	136	135	135	136	136	135	135	135	129	115	111	113	113	112	112	113	113	113	113	113	113	113	120	113	113	113	15		
SGRI	GT12	111	111	111	111	111	111	72	70	70	71	71	70	70	70	70	71	111	110	143	142	142	143	143	142	142	142	142	143	132	110	110	111	111	111	111	111	111	111	111	111	111	111	111	115	112	111	111	111	
SGRI	GT13	103	104	104	104	104	104	63	66	66	65	62	64	64	64	66	64	100	107	137	137	137	134	134	134	134	134	134	130	115	112	113	113	112	112	113	113	112	112	112	112	112	112	112	112	111	111	111	108	
SGRI	ST14	131	133	133	132	131	132	111	99	99	96	100	99	100	99	98	99	125	135	220	218	219	220	218	218	218	218	216	220	219	201	197	197	195	196	199	197	197	197	197	195	197	195	201	194	201	196	167		
SGRI	GT21	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	114	114	114	115	115	114	114	201	117	113	112	112	112	112	113	113	113	112	112	112	112	112	112	59			
SGRI	GT22	138	141	141	112	112	111	60	60	60	61	61	60	60	61	61	60	113	115	115	135	135	139	118	119	119	118	118	118	118	112	112	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	112	112	111
SCRI	GT23	137	138	138	111	111	109	59	60	60	60	60	60	60	60	60	60	107	110	110	127	130	138	116	116	116	116	116	115	115	117	112	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	109		
SGRI	ST24	192	146	147	131	130	134	94	90	90	87	90	91	90	87	88	90	129	133	133	144	137	148	202	203	204	201	201	201	195	199	196	196	197	197	197	197	197	197	198	194	194	196	195	196	195	197	196	184	
PKSP	BLK1	216	218	218	242	217	219	226	218	217	219	218	215	217	220	218	221	231	282	241	300	272	299	297	336	272	239	235	252	341	318	319	322	328	316	237	244	220	219	221	27									

Daily MW Generation on Wednesday

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
TMGR	HY01	-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	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	11	-1	-1	-1
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0
TMGR	HY04	37	37	37	36	37	37	37	37	37	37	37	36	37	36	36	36	36	37	34	33	34	34	34	34
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	94	73	-1	-1	-1	-1	94	94	-1	-1	-1	-1
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	96	98	96	-1	-1	-1	-1	-1	-1	-1
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
UPIA	HY02	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Total Hydro		274	193	192	194	192	193	193	194	214	213	193	213	212	214	214	213	195	194	194	216	318	443	501	661
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
PCUF	CUFC	1	0	1	1	1	2	1	1	1	1	2	3	1	1	2	1	1	0	0	0	0	0	0	0
PCUF	CUFK	18	18	18	18	19	17	19	18	18	18	17	19	18	19	18	19	18	16	18	19	19	18	20	17
Total Co-Gen		19	18	19	19	20	19	20	19	19	19	20	21	20	19	21	20	19	18	18	19	18	18	20	18
Total Gen		14461	13939	13750	13457	13217	12996	12842	12617	12479	12413	12252	12184	12333	12406	12422	12424	12908	13805	14638	15216	15611	16028	16197	16466
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
TIE-HVDC		30	30	30	30	30	30	30	30	31	31	31	29	29	30	30	30	31	29	31	29	30	31	31	29
TIE-PLTG		66	29	55	44	70	36	35	12	27	82	50	63	1	9	12	32	53	-28	-53	-4	3	16	-4	-11
Interconnection		96	59	84	74	100	66	64	41	57	112	81	94	31	39	41	61	83	2	-23	27	32	45	25	21
System Total		14365	13880	13866	13383	13117	12930	12778	12576	12422	12301	12171	12090	12302	12367	12381	12363	12825	13803	14661	15189	15579	15983	16172	16445
SRev ST-Coal		197	191	195	235	291	277	274	283	278	284	270	282	280	276	284	319	310	291	268	209	210	205	188	191
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0	53	9	10	37	8	21	31	24
SRev CCGT-Gas		677	915	947	1098	1167	1325	1388	1598	1763	1823	1979	2054	1907	1920	1895	1903	1564	1138	693	302	292	352	392	290
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
SRev Co-Gen		2	3	2	2	1	2	1	2	2	2	2	1	0	0	1	2	1	0	2	0	1	2	2	3
Syncon		1303	1303	1303	1303	1303	1303	1303	1152	1152	1303	1152	1152	1152	1303	1303	1303	1303	1303	1152	1152	839	965	1152	1152
Hydro		181	112	113	111	113	112	111	242	243	112	243	244	242	242	243	110	111	111	239	237	263	205	358	344
S.Reserve Total		2360	2524	2560	2749	2875	3019	3078	3297	3437	3504	3666	3732	3583	3590	3574	3619	3288	2843	2377	2075	2043	2027	1948	1691