

Daily System Generation Summary on Wednesday

Wednesday, May 18, 2016

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,490 MW
Hydro	1,853 MW
Distillate	0 MW
Total TNB	<u>5,343 MW</u>
Total IPP	<u>14,269 MW</u>
Total Co-Gen	<u>30 MW</u>
Total System	<u>19,642 MW</u>

Generation Mix

Type	MWh	Percentage
Gas	67,525	18.98 %
Hydro	8,584	2.41 %
Total TNB	76,109	21.40 %
ST-Coal	163,625	46.00 %
ST-Gas	4,388	1.23 %
Gas	110,310	31.01 %
Total IPP	278,323	78.25 %
Co-Gen	466	0.13 %
Total Co-Gen	466	0.13 %
Total Generation	354,898	99.78 %
PLTG	-88	-0.02 %
HVDC	-702	-0.20 %
Interconnection	-790	-0.22 %
Net Energy	355,688	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:	15:30:00 Hour
Total Set On Bus	18,055 MW
TNB Generation	3,946 MW
IPP Generation	12,838 MW
Spinning Reserve	1,255 MW
Maximum Demand	16,968 MW
Net Energy	355,688 MWH
Load Factor	87.34 %

Fuel Cost

Total Cost:	51,069,364.95 RM
Cost per Unit	14.74 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	355
Hydro	297
Syncon	632
Thermal	169
Total	1,453

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Cloudy	28

Gas Usage

Station	(mmscfd)	Station	(mmscfd)
CBPS	59	Total	0
GLGR	53		
PAKA	152		
PGPS	41		
SRDG	9		
TJGS	207		
Total TNB	521		
CBPS	52		
KLPP	72		
MPSS	59		
NPRI	143		
PGLA	104		
PKLG	4		
PLPS	90		
PTEK	11		
SGB3	85		
SGRI	153		
SKSP	49		
PKLG	44		
Total IPP	866		
Total Gas	1,386		
Total Gas Required	1,386		

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	14619	13791	13278	12832	12539	12283	12397	12194	12772	14569	15486	16247	16324	15909	16560	16825	16875	16357	15298	15032	16124	16058	15601	15135

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Printed on: Thursday, May 19, 2016 9:31:02 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
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT12	137	136	120	116	118	69	69	69	69	70	69	69	69	76	119	119	126	135	137	138	139	135	137	0
PLPS	GT13	143	137	108	105	108	59	63	63	63	63	63	64	58	64	70	109	108	119	127	129	130	130	130	130
PLPS	ST18	142	142	132	133	131	121	96	93	95	95	95	95	94	93	97	105	135	152	206	210	210	210	210	210
SGB3	GT31	100	100	59	59	59	59	59	59	59	59	59	59	59	59	59	59	65	100	138	138	136	141	140	140
SGB3	GT32	108	108	63	63	63	62	62	62	62	62	63	63	62	62	63	63	69	108	148	138	139	147	147	144
SGB3	GT33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGB3	ST34	132	132	95	95	92	91	91	91	91	91	91	91	91	91	91	97	136	153	149	219	222	222	222	209
SGRI	GT12	120	117	116	73	71	71	71	71	71	71	71	71	76	118	150	118	117	150	150	147	122	147	143	146
SGRI	GT13	110	110	109	64	65	65	64	64	65	65	64	64	65	109	135	109	110	134	131	130	129	132	127	116
SGRI	ST14	130	129	134	98	95	91	94	95	94	94	95	91	93	98	97	93	93	130	144	129	130	143	142	143
SGRI	GT21	127	109	108	67	68	68	68	68	69	69	68	68	68	68	68	74	110	112	125	127	127	127	142	144
SGRI	GT22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT23	128	108	109	68	68	68	68	68	68	68	68	68	68	67	68	110	113	128	128	128	128	128	128	128
SGRI	ST24	145	132	132	104	100	98	95	95	97	97	98	99	99	95	96	101	105	144	132	211	210	211	213	216
SKSP	BLK1	308	307	308	307	247	248	239	217	219	217	217	220	220	217	219	218	307	307	308	310	306	308	306	308
TJGS	GT1A	223	217	160	168	152	146	117	113	113	113	107	107	107	107	140	226	223	223	223	223	223	223	223	223
TJGS	GT1B	214	209	149	159	143	137	104	104	104	107	107	99	99	99	134	215	215	215	215	215	215	215	215	215
TJGS	ST1C	249	242	202	216	204	177	178	154	154	154	147	147	147	147	242	245	245	245	245	248	248	248	248	248
TJGS	GT2A	215	184	188	187	186	187	187	217	221	219	204	220	219	216	138	146	179	213	213	213	213	213	213	213
TJGS	GT2B	211	179	185	183	183	184	184	220	215	218	202	221	221	213	135	140	177	210	210	210	210	210	210	210
TJGS	ST2C	258	249	240	240	240	256	261	260	248	258	259	262	231	216	219	257	257	257	257	257	257	257	257	257
Total CCGT-Gas		7421	7905	6680	6390	6135	5890	5696	5520	5403	5278	5148	5182	5251	5426	5092	5035	5648	6788	7447	7978	8229	8442	8428	8485
PKLG	GT08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTEK	GT1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTEK	GT1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRDG	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRDG	GT05	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 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
BSIA	HY02	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
CEND	HY01	7	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY02	7	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY03	7	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
HTRG	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
KNRG	HY02	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	24	26	25	26	24	24	25	25	24
KNYR	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
KNYR	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
KNYR	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
KNYR	HY04	58	56	58	58	58	57	57	59	59	59	59	60	52	54	68	59	60	58	58	60	58	58	58	58
LPJA	HY01	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
PGAU	HY02	21	21	-1	-1	-1	-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	-1	-1	-1	-1	-1	-1	-1	-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
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
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
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

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
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
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
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
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
TMGR	HY01	31	28	31	31	31	31	32	34	33	33	32	33	34	30	27	31	43	29	35	28	29	35	32	33
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
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
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		195	198	181	181	180	181	185	184	184	183	184	185	204	171	213	242	217	225	235	236	408	716	585	798
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	CUFG	5	5	7	6	5	4	4	4	4	5	5	5	5	6	5	6	5	4	4	4	4	2	2	0
PCUF	CUFK	16	16	17	17	17	17	16	17	16	17	17	18	17	17	17	18	17	17	17	18	17	16	17	16
Total Co-Gen		21	21	24	23	22	21	20	21	20	22	22	22	23	22	22	21	21	19	19	18	16	16	14	17
Total Gen		14588	14141	13796	13507	13233	12981	12803	12617	12515	12388	12267	12293	12363	12563	12195	12166	12746	13898	14556	15184	15509	15920	16223	
TIE-BGAT		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		-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	
TIE-PLTG		-2	48	34	12	-16	-5	0	-18	5	4	13	-10	-5	44	29	8	3	19	16	22	52	5	5	
Interconnection		-31	19	5	-16	-45	-34	-29	-47	-24	-25	-16	-39	-34	15	1	-20	-26	-9	-13	-7	23	-25	-24	
System Total		14619	14122	13791	13523	13278	13015	12832	12664	12539	12413	12283	12332	12397	12548	12194	12186	12772	13907	14569	15191	15486	15945	16247	
SRev ST-Coal		178	170	175	174	192	198	182	195	180	185	174	181	181	175	207	224	265	210	255	248	241	207	209	
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	
SRev CCGT-Gas		506	922	1247	1537	1792	2037	2231	2407	2524	2649	2779	2745	2676	2501	2835	2892	2279	1235	862	603	352	235	249	
SRev ST-Gas		35	35	36	36	36	36	36	36	36	36	36	36	36	37	37	37	37	38	39	41	18	4	2	
SRev Co-Gen		9	9	6	7	8	9	10	9	10	8	8	8	7	7	8	7	8	8	9	9	11	11	12	
Syncon		653	653	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	
Hydro		255	252	118	118	118	119	118	114	115	115	116	115	114	246	128	136	107	132	124	264	263	291	310	
S.Reserve Total		1636	2041	2386	2676	2950	3203	3381	3565	3669	3797	3917	3889	3818	3618	4019	4100	3500	2426	2092	1967	1710	1566	1360	