

Daily System Generation Summary on Sunday

Sunday, June 19, 2016

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,747 MW
Hydro	2,036 MW
Distillate	0 MW
Total TNB	5,783 MW
Total IPP	13,189 MW
Total Co-Gen	27 MW
Total System	19,281 MW

Generation Mix

Type	MWh	Percentage
Gas	46,126	15.66 %
Hydro	5,715	1.94 %
Total TNB	51,841	17.60 %
ST-Coal	153,700	52.17 %
Gas	87,393	29.66 %
Total IPP	241,093	81.84 %
Co-Gen	330	0.11 %
Total Co-Gen	330	0.11 %
Total Generation	293,264	99.54 %
PLTG	-642	-0.22 %
HVDC	-700	-0.24 %
Interconnection	-1,342	-0.46 %
Net Energy	294,606	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:	21:30:00 Hour
Total Set On Bus	14,647 MW
TNB Generation	2,719 MW
IPP Generation	10,640 MW
Spinning Reserve	1,276 MW
Maximum Demand	13,496 MW
Net Energy	294,606 MWH
Load Factor	90.95 %

Fuel Cost

Total Cost:	36,126,427.20 RM
Cost per Unit	12.56 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	314
Hydro	199
Syncon	876
Thermal	99
Total	1,488

Time Weather Temperature

Afternoon	Cloudy	34
Morning	Cloudy	28

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	13174	12568	12153	11794	11581	11577	11433	10996	10545	11087	11832	12401	12476	12340	12663	12659	12626	12481	12465	12716	13246	13426	13358	12937

Gas Usage

Station	(mmscfd)
GLGR	53
PAKA	24
PGPS	34
TJGS	220
Total TNB	330
CBPS	55
KLPP	84
MPSS	33
NPRI	151
PGLA	109
PLPS	73
SGRI	122
Total IPP	628
Total Gas	958
Total Gas Required	958

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Prepared By: Mohd Yusof bin Ismail

Checked By: Ibrahim bin Said

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(Gurcharan Singh)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Sunday

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
SGRI	GT22	120	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT23	114	126	126	126	126	126	125	125	125	125	125	125	125	125	125	125	125	125	125	126	126	126	126	110
SGRI	ST24	141	94	69	69	69	68	68	69	69	69	69	69	69	69	69	69	69	69	69	68	68	69	65	66
TJGS	GT1A	228	228	231	231	231	231	231	231	231	231	193	193	193	225	229	229	229	229	229	229	229	234	230	230
TJGS	GT1B	220	220	220	223	223	223	219	219	222	222	222	222	189	192	192	214	221	221	221	221	218	218	218	218
TJGS	ST1C	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	250	250	253	253	250
TJGS	GT2A	219	222	222	222	224	224	222	222	222	217	209	187	187	136	137	138	189	221	221	219	219	219	219	219
TJGS	GT2B	220	222	222	222	222	222	220	220	223	222	215	205	183	183	134	133	132	186	220	222	222	219	219	221
TJGS	ST2C	262	262	262	262	262	262	253	262	262	258	253	237	237	210	210	210	229	265	262	262	262	262	262	263
Total CCGT-Gas		6485	6069	5824	5659	5489	5273	5088	5031	4908	4974	4902	4806	4743	4614	4410	3893	3905	4218	4552	4908	5331	5647	5710	5784
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	HY01	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
CEND	HY01	7	7	7	7	7	8	7	7	7	7	7	7	7	7	7	10	10	9	10	10	10	10	10	10
CEND	HY02	10	10	10	9	10	9	10	9	10	9	10	9	10	9	9	9	10	10	10	10	10	10	10	9
CEND	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	0	0	0	0	6	7	7	7	7	7
HTRG	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
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	125	69	0	0	0	0	0	0	0
KNRG	HY02	28	28	29	29	29	29	29	29	29	29	29	29	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY03	0	0	0	0	0	0	0	0	0	0	0	0	24	25	24	24	25	24	24	24	24	24	24	25
KNYR	HY01	60	-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	59	59	102	62	60	83	61	61	60	61	60	61	61	60	55	62	61	61	61	78	66	61	62	73
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
LPIA	HY01	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	17	18	18	18	18	18	17	17	18
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PGAU	HY01	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	-1	-1	-1	-1
PGAU	HY03	-1	-1	-1	23	-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
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	-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
TMGR	HY04	38	38	42	41	40	40	40	39	40	39	40	39	30	41	41	40	39	40	39	39	39	38	37	39
UPIA	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
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
Total Hydro		239	178	226	208	182	205	206	182	181	182	181	183	182	200	161	181	179	199	176	191	178	173	301	254
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	1	2	1	2	3	2	1	3	2	2	2	2	2	2	1	0	0	0	0	0	0	0	0	0
PCUF	CUFK	13	14	13	13	13	14	13	12	14	14	14	13	14	14	14	12	13	12	14	14	13	15	13	15
Total Co-Gen		14	16	14	15	16	16	14	15	16	16	16	16	16	16	15	13	15	13	13	15	14	9	12	12
Total Gen		13159	12686	12477	12251	12074	11881	11725	11641	11506	11584	11511	11432	11358	11235	10987	10479	10503	10855	11054	11393	11797	12118	12350	12462
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

Daily MW Generation on Sunday

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
TIE-HVDC		-29	-29	-29	-30	-31	-28	-28	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29
TIE-PLTG		13	-63	-62	-31	-49	-46	-41	-35	-46	-57	-37	-18	-45	-11	20	4	-13	-21	-4	-63	-6	-38	-21	3
Interconnection		-15	-92	-91	-60	-79	-77	-69	-64	-75	-85	-66	-47	-75	-41	-9	-25	-42	-50	-33	-92	-35	-67	-51	-27
System Total		13174	12778	12568	12311	12153	11958	11794	11705	11581	11669	11577	11479	11433	11276	10996	10504	10545	10905	11087	11485	11832	12185	12401	12489
SRev ST-Coal		35	33	43	88	70	153	123	126	136	128	130	112	121	134	137	148	136	115	137	170	170	165	73	128
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
SRev CCGT-Gas		194	326	208	164	170	250	435	492	615	549	621	717	780	909	1113	1630	1618	1305	971	838	415	239	176	155
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		13	11	13	12	11	13	12	11	11	11	11	11	11	13	12	13	11	12	14	12	14	14	12	13
Syncon		977	1078	1078	927	1078	1078	927	1078	1078	1078	1078	1078	1078	927	1078	1078	952	952	801	952	952	952	952	801
Hydro		171	131	83	252	127	104	254	127	128	127	128	126	127	260	149	129	131	263	135	111	124	129	127	174
S.Reserve Total		1390	1579	1425	1443	1456	1596	1752	1835	1968	1893	1968	2044	2117	2241	2488	2998	2975	2623	2332	2209	1801	1623	1342	1423