



Daily System Generation Summary on Monday

Monday, November 14, 2016

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,254 MW
Hydro	2,137 MW
Distillate	0 MW
Total TNB	4,391 MW
Total IPP	14,685 MW
Total Co-Gen	20 MW
Total System	19,660 MW

Generation Mix

Type	MWh	Percentage
Gas	38,661	11.63 %
Hydro	7,711	2.32 %
Total TNB	46,372	13.95 %
ST-Coal	180,286	54.22 %
Gas	105,581	31.75 %
Total IPP	285,867	85.97 %
Co-Gen	434	0.13 %
Total Co-Gen	434	0.13 %
Total Generation	332,673	100.05 %
PLTG	-465	-0.14 %
HVDC	634	0.19 %
Interconnection	169	0.05 %
Net Energy	332,504	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	17,422 MW
TNB Generation	2,789 MW
IPP Generation	13,094 MW
Spinning Reserve	1,521 MW
Maximum Demand	15,914 MW
Net Energy	332,504 MWH
Load Factor	87.06 %

Fuel Cost

Total Cost:	45,979,731.80 RM
Cost per Unit	14.21 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	436
Hydro	233
Syncon	838
Thermal	196
Total	1,703

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
CBPS	39
GLGR	17
PAKA	115
PGPS	27
SRDG	26
TJGS	93
Total TNB	317
KLPP	104
MPSS	49
NPRI	153
PGLA	111
PKLG	16
PLPS	91
PTEK	31
SGRI	192
SKSP	52
Total IPP	799
Total Gas	1,116
Total Gas Required	1,116

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	12862	12155	11848	11449	11202	11109	11462	11505	12340	14322	15168	15637	15562	15214	15679	15813	15739	15314	14491	14830	15138	14857	14385	13820

Prepared By: Mohd Yusof bin Ismail

Checked By: Siti Nurhamizatul Aini

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(Gurcharan Singh)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Monday

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	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	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		164	174	166	188	159	160	160	160	165	169	169	170	172	174	169	171	185	444	553	566	516	513	554	548	458	224	222	222	316	565	503	569	481	412	260	259	179	176	347	468	502	426	529	406	254	246	234	251		
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	19	19	19	17	17	18	18	19	19	18	19	17	19	19	18	16	19	19	19	17	18	18	16	17	19	18	18	18	18	18	18	19	16	17	18	18	17	18	19	19	19	18	19	18	18	17	18	20		
Total Co-Gen		19	19	19	17	17	18	18	19	19	18	19	17	19	19	18	16	19	19	19	17	18	18	16	17	19	18	18	18	18	18	18	19	16	17	18	18	17	18	19	19	19	18	19	18	18	17	18	20		
Total Gen		12804	12433	12128	12114	11923	11684	11477	11350	11266	11239	11168	11259	11476	11660	11592	11663	12297	13458	14343	14813	15165	15519	15626	15716	15524	15342	15221	15436	15608	15901	15795	15830	15744	15731	15324	14865	14522	14377	14831	15231	15130	15149	14873	14737	14356	14068	13786	13479		
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	0	0
TIE-HVDC		-30	-29	-29	31	31	30	30	31	31	30	30	31	30	30	30	30	30	30	30	30	30	31	31	30	30	30	29	29	30	30	30	30	30	30	30	30	30	30	30	31	31	31	31	30	30	30	30	30	30	
TIE-PLTG		-29	-41	2	29	45	26	-2	-12	34	10	29	6	-16	11	56	55	-73	-60	-9	-6	-33	-28	-42	-76	-68	-47	-23	-49	-100	-43	-49	-14	-25	-40	-20	-8	1	16	-29	-38	-38	-29	-15	-54	-59	-19	-64	8		
Interconnection		-58	-69	-27	59	75	56	28	19	64	41	59	36	14	41	87	85	-43	-31	21	25	-3	3	-11	-46	-38	-17	7	-19	-71	-13	-18	16	5	-10	10	22	31	46	1	-7	-8	1	16	-24	-29	11	-34	38		
System Total		12862	12502	12155	12055	11848	11628	11449	11331	11202	11198	11109	11223	11462	11619	11505	11578	12340	13489	14322	14788	15168	15516	15637	15762	15562	15359	15214	15455	15679	15914	15813	15814	15739	15741	15314	14843	14491	14331	14830	15238	15138	15148	14857	14761	14385	14057	13820	13441		
SRev ST-Coal		215	213	214	222	215	228	224	270	254	339	280	280	262	270	268	274	267	233	199	190	198	232	191	187	199	197	201	212	203	192	197	191	188	192	184	194	201	210	202	196	208	193	199	202	196	206	279	287		
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	60	70	118	89	34	132	207	207	171	108	170	208	193	190	94	255	100	55	56	32	31	35	46	-10	-10	-10	0	0	0			
SRev CCCT-Gas		529	404	423	296	465	693	904	914	967	951	1244	1150	957	787	1348	1404	987	954	884	579	331	333	335	299	337	251	366	176	170	183	184	237	238	275	378	437	629	762	512	240	359	267	466	259	351	453	392	327		
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		1	1	1	3	3	2	2	1	1	2	1	3	1	1	2	4	1	1	1	3	2	2	4	3	1	2	2	2	2	2	1	4	3	2	2	3	2	1	1	1	2	1	2	2	3	2	0	0		
Syncon		979	979	979	828	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979	979
Hydro		146	136	144	273	151	150	150	150	145	141	141	140	138	136	141	139	125	218	58	45	95	98	132	138	228	161	163	163	346	222	158	92	180	249	300	301	131	134	499	578	544	470	368	406	306	315	176	310		
S.Reserve Total		1870	1733	1761	1622	1813	2052	2259	2314	2346	2412	2645	2552	2337	2173	2738	2800	2369	2133	2075	1755	1574	1661	1629	1539	1775	1797	1918	1703	1531	1521	1627	1592	1678	1691	2098	2013	1998	2143	1989	1789	1890	1721	1686	1586	1824	1805	1828	1752		