



Daily System Generation Summary on Wednesday

Wednesday, November 30, 2016

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,127 MW
Hydro	2,321 MW
Distillate	0 MW
Total TNB	5,448 MW
Total IPP	14,637 MW
Total Co-Gen	20 MW
Total System	20,105 MW

Generation Mix

Type	MWh	Percentage
Gas	58,849	17.76 %
Hydro	9,946	3.00 %
Total TNB	68,795	20.76 %
ST-Coal	173,267	52.30 %
Gas	88,750	26.79 %
Total IPP	262,017	79.08 %
Co-Gen	433	0.13 %
Total Co-Gen	433	0.13 %
Total Generation	331,245	99.98 %
PLTG	633	0.19 %
HVDC	-699	-0.21 %
Interconnection	-66	-0.02 %
Net Energy	331,311	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	17,306 MW
TNB Generation	3,788 MW
IPP Generation	12,091 MW
Spinning Reserve	1,410 MW
Maximum Demand	15,887 MW
Net Energy	331,311 MWH
Load Factor	86.89 %

Fuel Cost

Total Cost:	45,360,742.00 RM
Cost per Unit	14.11 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	449
Hydro	289
Syncon	914
Thermal	131
Total	1,783

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)	Station	(mmscfd)
CBPS	47	Total	0
GLGR	29		
PAKA	149		
PGPS	25		
TJGS	201		
Total TNB	451		
CBPS	49		
KLPP	89		
MPSS	31		
NPRI	145		
PGLA	106		
PLPS	87		
SGB3	5		
SGRI	159		
SKSP	0		
Total IPP	670		
Total Gas	1,121		
Total Gas Required	1,121		

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	12784	12203	11735	11509	11237	11160	11356	11620	12227	13800	14688	15297	15225	15049	15550	15740	15887	15552	14485	14737	15169	14989	14464	13987

Prepared By: Siti Nurhamizatul Aini

Checked By: -Select Name-

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(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																									
TMGR	HY03	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
TMGR	HY04	-1	-1	-1	-1	-1	32	36	34	33	35	36	39	39	40	40	40	38	39	32	36	39	40	39	40	39	35	39	39	39	39	39	38	37	38	40	46	46	47	46	46	47	47	46	47	36				
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	94	94	94	96	101	98	81	94	94	95	95	95	87	-1	-1	-1	-1	96	94	94	93	-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	5	5	7	7	7	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	3	3	3	1	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3					
Total Hydro		244	245	249	243	246	240	192	235	180	178	185	199	201	226	225	205	204	205	201	181	182	302	452	495	493	367	311	575	858	946	964	936	1087	966	796	377	197	197	333	819	829	807	558	405	281	220	243	211	
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		
PCUF	CUFK	19	17	17	17	17	18	18	18	19	18	19	20	21	16	18	18	20	18	18	17	19	18	19	18	18	18	17	17	18	16	17	17	18	18	18	18	17	17	18	19	19	19	18	18	18	19	19		
Total Co-Gen		19	17	17	17	17	18	18	18	19	18	19	20	21	16	18	18	20	18	18	17	19	18	19	18	18	18	17	17	18	16	17	17	18	18	18	18	17	17	18	19	19	19	18	18	18	19	19		
Total Gen		12762	12370	12194	11853	11757	11706	11504	11396	11269	11309	11174	11197	11302	11562	11618	11809	12168	13320	13775	14387	14678	15133	15277	15338	15229	15046	15009	15307	15387	15753	15746	15765	15896	15797	15547	15000	14493	14345	14745	15304	15182	15177	14975	14786	14472	14222	13976	13802	
TIE-ECAT		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		-29	-31	-31	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-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		7	16	22	56	52	74	24	63	60	45	42	-22	-25	95	27	9	-29	19	3	52	19	-1	10	2	34	23	-11	14	65	28	35	9	39	-5	25	79	37	7	37	31	41	-8	14	32	37	46	18	20	
Interconnection		-22	-14	-9	26	22	45	-5	34	32	16	14	-51	-54	66	-2	-21	-59	-10	-25	23	-10	-31	-20	-28	4	-6	-40	-15	37	-1	6	-21	9	-34	-5	50	8	-21	8	2	13	-37	-14	3	8	18	-11	-10	
System Total		12784	12384	12203	11927	11735	11661	11509	11362	11237	11293	11160	11248	11356	11496	11620	11930	12227	13330	13800	14364	14688	15164	15297	15366	15225	15062	15049	15322	15550	15754	15740	15786	15887	15631	15552	14950	14485	14366	14737	15302	15169	15214	14989	14783	14464	14204	13987	13812	
SRev ST-Coal		195	300	272	275	341	327	436	441	451	449	616	707	702	711	547	489	248	205	181	115	22	75	88	79	79	74	85	68	87	91	76	79	183	193	193	187	190	175	185	185	198	193	192	179	194	260	280	277	
SRev CCGT-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
SRev CCGT-Gas		1740	1661	1805	2023	2346	2504	2549	2472	2535	2494	2470	2370	2274	2023	2132	2021	1904	1117	1312	868	673	334	328	318	425	487	457	439	423	342	380	331	357	326	406	471	515	594	320	248	368	356	310	358	329	227	465	599	
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
SRev Co-Gen		1	3	3	3	3	2	2	2	1	2	1	0	-1	4	2	2	0	2	2	3	1	2	1	2	2	2	2	3	3	2	4	3	3	2	2	2	2	2	3	3	2	1	1	1	2	2	2	1	1
Syncon		1264	1264	1264	1199	1199	1203	1203	901	1203	1203	1203	1203	1052	1116	1267	1267	1267	1267	1267	1267	1267	1267	1080	1080	929	1080	1080	853	626	626	626	626	626	626	752	889	1267	1267	1065	878	727	878	878	1065	1166	1267	1116	1267	
Hydro		136	135	131	137	134	136	145	404	157	159	152	138	136	262	263	132	133	132	136	156	148	235	322	279	432	257	213	276	470	382	364	392	241	362	356	338	140	140	206	257	398	269	268	134	157	117	245	126	
S.Reserve Total		3396	3383	3475	3637	4023	4172	4335	4220	4347	4307	4442	4418	4314	4052	4060	3911	3552	2723	2899	2409	2111	1913	1810	1758	1867	1900	1837	1639	1609	1443	1450	1431	1410	1509	1709	1887	2114	2179	1779	1570	1692	1697	1649	1738	1848	1873	2107	2270	