

Daily System Generation Summary on Saturday

Saturday, October 08, 2016

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,915 MW
Hydro	2,421 MW
Distillate	0 MW
Total TNB	<u>5,336 MW</u>
Total IPP	<u>13,651 MW</u>
Total Co-Gen	<u>20 MW</u>
Total System	<u>19,571 MW</u>

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:	20:00:00 Hour
Total Set On Bus	16,744 MW
TNB Generation	3,122 MW
IPP Generation	11,720 MW
Spinning Reserve	1,885 MW
Maximum Demand	14,867 MW
Net Energy	320,776 MWH
Load Factor	89.90 %

Gas Usage

Station	(mmscfd)
GLGR	6
PAKA	190
SRDG	9
TJGS	204
Total TNB	407
KLPP	97
NPRI	137
PGLA	52
PLPS	67
PTEK	7
SGRI	145
Total IPP	506
Total Gas	914

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Generation Mix

Type	MWh	Percentage
Gas	53,900	16.80 %
Hydro	8,909	2.78 %
Total TNB	62,809	19.58 %
ST-Coal	189,932	59.21 %
Gas	67,912	21.17 %
Total IPP	257,844	80.38 %
Co-Gen	428	0.13 %
Total Co-Gen	428	0.13 %
Total Generation	321,081	100.10 %
PLTG	-412	-0.13 %
HVDC	717	0.22 %
Interconnection	305	0.10 %
Net Energy	320,776	100.00 %

Fuel Cost

Average Spinning Reserve During Peak Hour

Type	MW
GT	305
Hydro	216
Syncon	1,213
Thermal	138
Total	1,872

Total Gas Required 914

Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	27

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	13678	13000	12454	12077	11886	11677	11735	11595	11344	12549	13479	14081	14053	13858	14278	14391	14373	13986	13543	13988	14867	14623	14331	14207

Prepared By: Ibrahim bin Said

Checked By: Kannathason a/l Karupiah

Printed on: Sunday, October 09, 2016 9:27:32 AM
(Gurcharan Singh)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Saturday

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	U001	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693
JMAH	U002	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691
JMJG	U001	665	662	662	670	668	663	671	667	653	624	571	575	579	574	575	578	576	571	576	576	580	579	576	574
JMJG	U002	676	675	676	673	676	673	673	677	674	671	581	572	575	579	576	578	571	576	585	586	575	580	579	575
JMJG	U003	662	668	667	675	670	668	669	672	666	659	573	572	573	568	572	573	566	568	575	573	572	575	564	
JMJG	U004	0	0	0	0	0	265	307	349	460	525	571	571	649	738	767	768	787	788	798	798	770	771	771	
PKLG	U004	283	281	283	281	279	279	279	279	279	281	281	281	281	257	206	259	279	279	281	281	281	281	281	281
PKLG	U005	467	467	467	464	467	469	265	299	359	436	423	455	472	469	469	469	465	469	469	468	468	468	468	468
PKLG	U006	478	477	471	433	356	360	363	394	464	474	472	468	472	472	462	468	468	468	468	468	468	467	464	
TBIN	U001	688	685	687	690	690	688	690	687	690	690	690	691	688	690	683	598	599	649	689	687	688	688	688	691
TBIN	U002	690	689	690	693	691	690	691	690	692	692	691	691	691	687	688	601	602	653	694	693	692	691	691	693
TBIN	U003	692	686	689	691	691	690	691	690	688	691	689	690	691	690	600	602	651	691	691	689	691	690	690	692
TBIN	U004	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	902	902	903	
Total ST-Coal		7585	7574	7576	7554	7472	7729	7583	7688	7909	8027	7826	7848	7955	8033	8057	7768	7542	7848	8108	8100	8067	8075	8061	
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
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
GLGR	GT01	103	100	100	80	71	69	69	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GLGR	GT02	104	101	55	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GLGR	ST1C	93	92	82	38	33	33	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	GT13	141	142	142	102	103	98	102	103	97	88	69	69	70	69	63	70	69	104	104	114	142	141	141	
KLPP	GT14	146	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	139	145	154	158		
KLPP	GT15	156	155	155	117	117	113	113	114	110	106	82	79	81	77	75	79	84	113	117	113	125	154		
KLPP	ST17	208	196	144	119	119	119	119	115	111	91	90	90	89	82	87	91	115	119	147	192	204	204		
NPRI	BLK1	331	320	303	356	355	311	317	354	312	296	321	313	310	313	288	309	313	397	356	391	453	497		
NPRI	BLK2	517	501	492	515	515	499	507	517	498	379	308	303	307	287	308	314	398	358	391	455	499	495		
PAKA	CT1A	91	92	91	65	65	65	65	66	66	66	67	65	65	65	66	65	66	67	65	65	66	66	66	
PAKA	CT1B	92	93	93	64	64	64	64	63	66	65	65	66	64	64	64	66	64	66	65	91	90	90		
PAKA	ST1C	80	80	81	67	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	
PAKA	GT2A	89	90	90	64	65	64	65	62	64	64	65	65	63	63	63	64	63	65	64	88	87	86		
PAKA	GT2B	92	92	92	63	64	63	64	63	64	64	64	65	63	63	64	65	64	91	90	89	89	88		
PAKA	ST2C	89	89	89	76	75	75	75	75	75	75	75	75	75	75	76	76	75	75	88	89	89	89		
PAKA	GT3A	90	90	90	65	65	65	64	64	66	66	66	66	64	65	66	65	66	65	89	88	88	87		
PAKA	GT3B	90	90	91	64	65	64	64	64	65	65	66	66	63	64	63	66	64	66	66	89	88	87		
PAKA	ST3C	91	91	91	75	75	75	75	75	75	75	75	75	75	75	75	76	90	90	88	90	90	90	90	
PAKA	GT4A	95	95	95	85	85	85	85	85	83	85	85	84	85	85	85	84	85	85	84	85	85	85	85	
PAKA	GT4B	82	82	82	75	75	75	75	75	72	75	75	75	75	75	75	75	75	75	75	75	75	75	75	
PAKA	ST4C	91	91	91	81	81	81	81	81	80	78	80	81	81	81	81	81	81	81	82	82	83	83		
PCLA	GT12	156	153	153	159	163	152	155	170	152	143	171	162	156	158	153	158	170	158	156	167	158	162		
PCLA	ST10	91	91	91	94	92	92	92	95	90	87	90	92	92	92	92	94	116	116	116	116	114	116		
PLPS	GT12	119	112	112	119	119	110	65	69	63	59	69	69	70	69	62	69	69	70	120	119	144	143		
PLPS	GT13	108	102	101	108	109	102	57	61	55	49	60	61	60	54	62	63	63	93	108	135	141	140		
PLPS	ST18	131	133	132	133	133	131	91	92	86	79	90	89	92	92	85	88	93	88	118	133	142	144		
SGRI	GT11	131	131	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGRI	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGRI	GT13	131	131	131	138	134	138	138	137	137	130	137	105	105	105	105	45	31	31	31	31	31	31	31	
SGRI	ST14	144	143	142	91	73	70	70	72	73	71	74	64	63	64	65	51	0	0	0	0	0	0	0	
SGRI	GT21	140	140	140	109	109	109	109	68	68	67	67	68	68	69	69	69	69	106	113	112	114	132		

Daily MW Generation on Saturday

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																												
Total Gen		13711	13385	13064	12649	12454	12426	12114	12035	11934	11854	11669	11647	11736	11826	11698	11440	11388	12016	12574	13096	13485	13869	14071	14157	14056	13875	13864	14024	14291	14453	14398	14342	14347	14284	13997	13657	13554	13480	13971	14898	14859	14810	14651	14647	14360	14379	14230	14027				
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	0	0
TIE-HVDC		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
TIE-PLTG		4	-1	34	-43	-30	4	7	-23	18	113	-38	-47	-29	-18	73	0	14	-37	-5	-7	-23	-34	-40	-82	-27	-47	-23	-36	-16	-52	-23	-16	-56	-23	-18	-23	-19	-60	-47	28	-38	-28	-1	-33	-1	-18	-7	-52				
Interconnection		33	29	64	-13	0	34	37	7	48	143	-8	-17	1	12	103	30	44	-7	25	23	6	-4	-10	-52	3	-17	6	-6	13	-22	7	14	-26	7	11	7	11	-30	-17	58	-8	2	28	-3	29	12	23	-22				
System Total		13678	13356	13000	12662	12454	12392	12077	12028	11886	11711	11677	11664	11735	11814	11595	11410	11344	12023	12549	13073	13479	13873	14081	14209	14053	13892	13858	14030	14278	14475	14391	14328	14373	14277	13986	13650	13543	13510	13988	14840	14867	14808	14623	14650	14331	14367	14207	14049				
SRev ST-Coal		140	151	149	171	194	290	288	83	-138	96	159	333	404	320	298	502	639	347	87	95	128	120	134	177	188	182	184	137	135	140	137	138	141	140	139	139	138	137	184	159	117	138	148	125	128	127	133	131				
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	0	0	0	28	-8	-9	-9	66	65	66	66	67	68	67	64	70	67	68	0	0	0	0	0	0	0	0	0	
SRev CCGT-Gas		504	801	914	1085	1016	1291	1480	1551	1750	1943	1959	2022	2015	2028	2139	2109	1784	1440	1167	775	522	171	208	77	193	95	136	141	116	94	133	185	217	175	200	490	672	748	442	265	314	237	297	309	449	417	395	590				
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	0	
SRev Co-Gen		2	3	2	3	3	3	1	4	2	2	1	1	3	2	2	2	3	2	3	3	2	1	2	2	3	3	1	1	1	2	2	3	1	1	1	3	3	2	1	3	3	2	3	1	3	2	4	1				
Syncon		1165	1165	1165	1266	1266	1266	1115	1266	1453	1453	1453	1302	1453	1302	1453	1453	1453	1302	1453	1251	1352	1251	1251	1100	1352	1251	1251	1100	1251	1253	848	999	999	1352	1352	1352	1352	1201	1100	1251	1251	1251	1125	1251	1251	1354	1203					
Hydro		133	150	152	132	129	139	269	128	147	152	121	253	125	252	142	141	111	134	259	123	213	238	235	199	299	136	207	250	395	99	116	448	320	275	165	132	133	134	233	249	133	115	113	156	146	137	121	285				
S.Reserve Total		1944	2270	2382	2657	2608	2989	3153	3032	3214	3646	3693	3911	4000	3904	4034	4207	3990	3376	2818	2449	2116	1882	1830	1706	1783	1768	1779	1808	1739	1577	1632	1688	1743	1656	1923	2183	2366	2440	2125	1846	1885	1811	1812	1716	1977	1934	2007	2210				