

Daily System Generation Summary on Saturday

Saturday, February 10, 2018

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,658 MW
Hydro	2,391 MW
Distillate	0 MW
Total TNB	<u>5,049 MW</u>
Total IPP	<u>15,128 MW</u>
Total Co-Gen	<u>57 MW</u>
Total System	<u>20,806 MW</u>

Generation Mix

Type	MWh	Percentage
Gas	40,031	12.22 %
Hydro	9,268	2.83 %
Total TNB	49,299	15.05 %
ST-Coal	179,113	54.69 %
Gas	96,292	29.40 %
Total IPP	275,405	84.09 %
Co-Gen	1,756	0.54 %
Total Co-Gen	1,756	0.54 %
Total Generation	326,460	99.68 %
PLTG	-348	-0.11 %
HVDC	-703	-0.21 %
Interconnection	-1,051	-0.32 %
Net Energy	327,511	100.00 %

Maximum Demand Record

Date: 10/23/2017	17,790 MW
Date: 4/20/2016	372,457 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	20:30:00 Hour
Total Set On Bus	16,715 MW
TNB Generation	2,690 MW
IPP Generation	12,356 MW
Spinning Reserve	1,591 MW
Maximum Demand	15,185 MW
Net Energy	327,511 MWH
Load Factor	89.87 %

Fuel Cost

Total Cost:	59,336,735.24 RM
Cost per Unit	18.71 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	322
Hydro	273
Syncon	1,139
Thermal	246
Total	1,980

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	55
PGPS	1
SRDG	9
TJGS	219
Total TNB	284
CBPS	55
KLPP	99
MPSS	1
NPRI	81
PGLA	104
PLPS	91
PTEK	11
SGB3	60
SGRI	5
SKSP	55
YPKA	81
Total IPP	642
Total Gas	926
Total Gas Required	926

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	14340	13595	13032	12733	12317	11981	12032	11998	11714	12763	13581	14113	14171	13940	14406	14473	14589	14390	13996	13983	15174	15037	14699	14414

Prepared By: Abu Bakar bin K.K. Ibrahim

Checked By: Siti Nurhamizatul Aini

Printed on: Sunday, February 11, 2018 9:40:12 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	
TJGS	ST2C	253	253	253	253	252	252	252	253	252	252	249	236	244	257	257	258	259	259	261	260	258	257	256	257	257
YPKA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	130	126	127	126	125	126	125	125	126	126
YPKA	GT12	126	139	139	139	139	136	65	65	66	66	65	65	65	65	125	128	128	127	127	127	127	126	127	126	127
YPKA	ST10	54	60	60	60	60	60	32	31	32	32	32	32	32	31	118	119	120	121	121	121	121	121	121	121	
YPKA	GT21	140	133	133	133	132	131	65	65	65	65	65	65	65	65	134	132	133	133	132	132	130	131	131	130	
YPKA	ST20	64	60	60	60	60	60	37	37	36	37	36	36	37	37	62	62	62	62	62	62	62	62	62	62	
Total CCGT-Gas		6356	5911	5659	5479	5255	5058	4902	4650	4534	4443	4307	4320	4395	4412	4404	4218	4070	4728	5127	5473	5801	5962	5909	6096	
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	
PTEK	GT2A	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 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	
BSIA	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	
BSIA	HY02	24	24	24	24	24	24	24	24	24	24	24	24	24	13	13	13	13	13	13	13	13	13	13	13	
BSIA	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	
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
CEND	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	
KNRG	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	
KNRG	HY02	38	38	38	38	38	38	38	38	38	38	38	38	28	28	28	27	27	27	27	26	26	26	27	27	
KNRG	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	
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	HY04	60	60	58	74	60	58	60	63	61	64	60	60	61	62	66	62	63	66	58	58	62	58	56	96	
LPIA	HY01	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	7	7	7	7	7	4	4	8	8	8	
PGAU	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	
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	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
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	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	HY02	33	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
TMGR	HY03	31	31	31	31	31	29	31	31	31	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	
TMGR	HY04	11	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
UJLI	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	
UJLI	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	
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	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 Hydro		290	255	219	235	221	217	221	224	222	225	243	221	222	223	217	213	214	216	207	208	212	366	556	598	
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	

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																										
PCUF	CUPG	29	29	29	30	31	29	29	29	29	30	30	29	29	30	30	30	30	40	40	41	41	41	41	41	41	41	41	41	41	40	41	40	38	39	38															
PCUF	CUFK	41	40	40	40	42	39	41	41	40	41	39	38	36	36	35	36	32	33	34	33	33	32	33	34	34	35	35	35	35	36	37	38	39	40	40	39	39													
Total Co-Gen		70	69	69	70	73	68	70	70	69	71	69	67	68	70	69	69	76	77	76	77	75	76	77	77	76	76	76	76	77	78	78	80	80	78	78	77														
Total Gen		14265	13795	13488	13235	12976	12753	12628	12374	12267	12098	11926	11901	11980	11998	11977	11782	11641	12303	12673	13127	13510	13919	14062	14275	14115	13925	13903	14129	14339	14453	14470	14548	14542	14436	14361	14108	13964	13886	13982	14682	15124	15124	15050	14811	14661	14520	14386	14071		
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	
TIE-HVDC		-30	-30	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-30	-30	-29	-29	-30	-30	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30				
TIE-PLTG		-45	-24	-78	-44	-26	-26	-75	-76	-21	-33	-27	48	-22	5	8	-22	-44	8	-61	-18	-42	-20	-20	-37	-27	-6	-7	-26	-38	36	26	66	-18	-13	0	16	-2	12	28	-11	-21	-32	42	-27	-9	-12	1	17		
Interconnection		-75	-54	-107	-73	-56	-56	-105	-106	-50	-62	-55	19	-52	-25	-21	-51	-73	-21	-90	-47	-71	-49	-51	-67	-56	-34	-37	-55	-67	7	-3	36	-47	-43	-29	-13	-32	-18	-1	-40	-50	-61	13	-56	-38	-40	-28	-13		
System Total		14340	13849	13595	13308	13032	12809	12733	12480	12317	12160	11981	11882	12032	12023	11998	11833	11714	12324	12763	13174	13581	13968	14113	14342	14171	13959	13940	14184	14406	14446	14473	14512	14589	14479	14390	14121	13996	13904	13983	14722	15174	15185	15037	14867	14699	14560	14414	14084		
SRev ST-Coal		174	163	182	168	278	247	210	222	212	221	213	218	276	280	283	282	284	277	298	282	284	282	275	290	285	288	277	292	286	279	293	270	283	290	281	272	230	292	260	164	158	121	96	93	192	192	227	181		
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	0	0	0	0	0	0	0	0	0	0	0	73	-2	57	-2	-4	-3	-2	117	-4	0		
SRev CCGT-Gas		599	627	565	392	536	593	749	1001	1117	1208	1272	1259	1184	1167	1175	1361	1509	1004	807	526	341	251	344	300	320	405	456	220	208	262	246	251	220	276	245	300	440	518	396	365	198	218	235	261	359	258	241	226		
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		-13	-12	-12	-13	-16	-11	-13	-13	-12	-14	-12	-10	-11	-13	-12	-12	-14	-12	-14	-12	-23	-21	-20	-19	-20	-18	-18	-15	-15	-15	-15	-16	-14	-16	-19	-17	-19	-18	-19	-19	-20	-21	-21	-23	-23	-21	-21	-20		
Syncon		1029	1264	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1354	1354	1354	1014	777	863	951	1052	1052	1052	1052	1052			
Hydro		371	171	119	103	117	121	117	114	116	113	246	117	116	115	121	125	124	122	131	130	126	197	217	175	238	285	286	161	219	272	256	299	321	366	424	292	184	184	188	275	421	412	400	438	480	376	371	386		
S.Reserve Total		1960	2213	2206	2082	2267	2362	2415	2676	2785	2880	2920	2936	2917	2901	2919	3108	3255	2743	2574	2278	2880	2061	2084	2014	2089	2077	2098	1926	1815	1913	1895	1818	1824	1930	1945	2050	2189	2330	2252	1797	1591	1591	1657	1818	2058	1974	1866	1825		