

Daily System Generation Summary on Saturday

Saturday, July 06, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,342 MW
Distillate	0 MW
Total TNB	2,342 MW
Total IPP	16,192 MW
Total Co-Gen	0 MW
Total System	21,309 MW

Generation Mix

Type	MWh	Percentage
Hydro	7,321	2.07 %
Gas	32,939	9.33 %
Total TNB	40,260	11.41 %
ST-Coal	227,107	64.35 %
LSS	1,925	0.55 %
Gas	82,352	23.33 %
Total IPP	311,384	88.23 %
Co-Gen	1,931	0.55 %
Total Co-Gen	1,931	0.55 %
Total Generation	353,575	100.18 %
PLTG	-78	-0.02 %
HVDC	725	0.21 %
Interconnection	647	0.18 %
Net Energy	352,928	100.00 %

Maximum Demand Record

Date: 4/18/2019	18,566 MW
Date: 4/18/2019	391,845 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	20:30:00 Hour
Total Set On Bus	17,809 MW
TNB Generation	1,803 MW
IPP Generation	14,056 MW
Spinning Reserve	1,865 MW
Maximum Demand	15,921 MW
Net Energy	352,928 MWH
Load Factor	92.36 %

Fuel Cost

Total Cost:	62,952,058.68 RM
Cost per Unit	17.78 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	517
Hydro	400
Syncon	774
Thermal	302
Total	1,993

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	202
Total TNB	231
NPRI	155
PGLA	84
PLPS	104
SGRI	60
SKSP	50
YPKA	47
Total IPP	500
Total Gas	731
Total Gas Required	731

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	15406	14907	14313	13809	13592	13290	13212	12969	12752	13893	14867	15404	15314	15083	15498	15621	15677	15416	14881	14915	15825	15752	15435	15372

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, July 12, 2019 9:52:41 AM

(Ir. Shanmugam Thoppalan)
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	690	696	692	689	693	691	694	695	694	692	693	694	693	694	694	692	695	693	685	612	612	614	612	612	612	611	621	622	622	621	621	624	624	623	622	622	622	623	622	622	623	622	621	623	621	623	621	623	697	693
JMAH	U002	710	691	696	694	697	693	695	693	695	695	692	694	695	694	694	692	695	689	702	693	694	693	687	682	682	695	697	691	694	692	693	694	693	695	693	693	695	695	695	693	695	695	695	695	691	702	693	695	692	
JMHE	U002	512	508	510	511	509	510	509	509	507	508	509	509	512	510	510	508	509	509	505	508	793	998	1008	1005	1007	1007	1009	1010	1007	1007	1005	1005	1005	1005	1005	1008	1006	1006	1007	1005	1003	1007	1006	1003	1004	1005	758	759	741	
JMJG	U001	665	666	675	677	673	671	669	668	668	672	673	671	667	669	670	670	680	674	662	668	675	666	670	666	671	672	672	672	668	660	666	666	666	666	668	667	666	667	666	668	668	665	664	667	676	669	671			
JMJG	U003	665	668	668	671	668	671	668	664	669	667	662	665	662	666	664	667	662	661	666	663	662	662	667	663	668	668	662	665	653	667	655	649	656	649	652	656	651	654	653	652	656	653	654	656	651					
JMJG	U004	975	974	975	899	810	809	809	808	808	808	808	808	807	808	810	809	807	805	808	805	807	873	977	976	978	978	979	977	977	977	977	977	977	977	977	974	975	976	972	975	975	976	973	976	975	975				
JMJG	U005	978	978	975	858	801	801	801	799	800	804	800	804	801	804	800	799	798	800	801	801	803	803	840	956	983	980	981	980	977	979	974	979	979	979	978	981	982	982	977	979	977	981	981	979	979	976	978	977	976	
PKLG	U003	285	284	282	279	282	280	281	280	280	282	282	280	281	281	281	281	242	209	279	283	283	282	284	282	283	281	283	281	283	282	284	285	281	280	281	284	284	283	283	281	281	282	280	283	286	283	283			
PKLG	U005	469	470	470	470	470	469	468	469	468	470	468	468	473	468	468	468	405	412	470	468	470	471	470	470	470	474	470	470	468	470	468	470	472	468	471	471	470	468	470	469	469	469	468	470	471	466				
PKLG	U006	465	464	466	468	468	470	471	472	471	469	471	468	472	464	471	468	470	472	473	465	468	471	465	465	472	468	470																							

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 CCGT-Gas		5712	5422	5271	5159	5045	4839	4673	4464	4443	4040	3903	3780	3817	3803	3555	3180	3310	3834	4247	4717	4796	4868	5018	4891	4583	4675	4613	4699	5045	5238	5241	5320	5327	5398	5158	4964	4728	4726	4794	5376	5526	5674	5581	5608	5371	5534	5443	5186
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	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	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	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	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
CEND	HY03	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
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	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
KNRG	HY02	23	23	23	24	24	23	23	23	23	24	23	24	24	23	22	24	23	24	24	24	23	23	23	23	23	23	24	24	24	24	24	24	23	24	24	24	24	24	24	24	24	23	24	24	24	24	24	
KNYR	HY01	0	0	0	0	0	0	0	0	0	97	97	97	97	97	97	95	97	97	97	97	96	96	96	96	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNYR	HY02	60	58	73	61	63	58	59	58	55	96	96	96	96	96	96	95	96	95	96	96	95	95	96	96	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	HY03	-1	-1	-1	-1	-1	-1	-1	-1	98	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	-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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	95	97	97	97	97	97	97	97	97	59	59	61	61	61	61	61	61	61	59</														

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		
Interconnection		34	106	85	14	8	41	49	51	29	80	24	27	28	-8	44	95	-5	-33	-16	-42	-4	36	11	21	33	-5	35	-13	13	29	66	58	52	53	38	61	21	28	-15	-18	10	30	34	46	55	11	15	-21	
System Total		15406	15014	14907	14670	14313	13979	13809	13590	13592	13381	13290	13169	13212	13224	12969	12584	12752	13331	13893	14420	14867	15158	15404	15561	15314	15141	15083	15382	15498	15678	15621	15660	15677	15674	15416	15121	14881	14814	14915	15477	15825	15921	15752	15674	15435	15416	15372	15142	
SRev ST-Coal		157	166	157	293	378	380	387	391	394	387	393	392	386	396	393	399	461	471	366	390	499	391	511	355	252	237	233	224	239	236	251	273	245	272	274	256	261	277	265	275	180	254	277	367	262	388	180	218	
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	0	0	0	0	0	0	0	0	0	0	0
SRev CCGT-Gas		469	759	410	442	413	550	716	730	751	965	884	1007	970	984	1232	1607	1577	1165	752	382	434	491	341	468	776	684	746	790	509	316	537	458	451	380	620	814	1050	1192	1199	617	467	319	412	385	622	459	407	393	
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 LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		-14	-17	-15	-18	-18	-19	-20	-19	-22	-22	-21	-22	-21	-22	-21	-20	-20	-22	-20	-19	-19	-16	-17	-16	-17	-13	-14	-11	-11	-12	-14	-13	-13	-18	-19	-19	-21	-19	-22	-18	-21	-23	-22	-20	-20	-22	-22	-23	
Syncon		964	1115	1115	1115	1115	1115	1115	1115	1115	1014	1014	1014	1014	1014	863	1014	1014	863	1014	1014	626	626	626	626	626	727	727	727	727	727	727	727	727	878	964	1115	1115	1115	1115	964	813	813	964	964	964	1115	1115		
Hydro		267	140	124	134	132	139	138	140	143	106	106	108	105	106	235	118	109	240	109	108	420	421	422	422	423	452	451	446	444	445	449	448	449	388	136	137	138	137	138	551	499	444	261	267	261	124	96		
S.Reserve Total		1847	2167	1795	1970	2024	2169	2340	2361	2385	2454	2380	2503	2458	2482	2706	3122	3145	2721	2225	1879	1964	1917	1887	1859	2064	2091	2147	2180	1912	1716	1954	1897	1863	1965	2231	2306	2546	2707	2698	2131	2145	1866	1928	1961	2099	2054	1808	1803	