

Daily System Generation Summary on Saturday

Saturday, August 03, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,743 MW
Distillate	0 MW
Total TNB	1,743 MW
Total IPP	15,742 MW
Total Co-Gen	0 MW
Total System	20,564 MW

Generation Mix

Type	MWh	Percentage
Hydro	9,862	2.82 %
Gas	36,536	10.44 %
Total TNB	46,398	13.26 %
ST-Coal	193,427	55.26 %
LSS	1,694	0.48 %
Gas	106,638	30.47 %
Total IPP	301,759	86.22 %
Co-Gen	1,458	0.42 %
Total Co-Gen	1,458	0.42 %
Total Generation	349,615	99.89 %
PLTG	304	0.09 %
HVDC	-696	-0.20 %
Interconnection	-392	-0.11 %
Net Energy	350,007	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	17,287 MW
TNB Generation	2,434 MW
IPP Generation	13,617 MW
Spinning Reserve	1,176 MW
Maximum Demand	16,168 MW
Net Energy	350,007 MWH
Load Factor	90.20 %

Fuel Cost

Total Cost:	66,411,757.90 RM
Cost per Unit	18.98 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	663
Hydro	231
Syncon	499
Thermal	151
Total	1,544

Time	Weather	Temperature
Afternoon	Hot	30
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	50
TJGS	211
Total TNB	261
CBPS	52
KLPP	94
NPRI	153
PGLA	108
PLPS	87
SGB3	73
SGRI	45
SKSP	49
YPKA	25
Total IPP	687
Total Gas	948
Total Gas Required	948

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	15386	14729	14271	13783	13404	13032	12965	12873	12590	13802	14704	15265	15193	14790	15063	15206	15379	15102	14851	14825	16041	16036	15597	15403

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, August 26, 2019 7:53:01 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	692	693	686	691	691	692	693	692	693	692	694	693	693	692	693	693	693	692	695	692	695	693	693	689	694	692	689	689	689	689	689		
JMAH	U002	691	694	694	693	696	694	694	694	693	694	694	694	696	696	694	693	694	696	694	697	696	695	692	695	692	694	695	693	694	685	694	694	
JMJC	U001	670	671	671	668	677	667	680	670	670	672	671	671	675	665	667	672	673	673	674	671	672	677	669	671	674	668	667	677	669	672	673	673	
JMJC	U003	668	635	608	594	594	589	596	593	596	621	667	668	667	669	667	665	664	666	654	669	671	668	668	667	667	670	669	668	663	667	667	666	
JMJC	U004	980	980	978	925	838	805	805	803	804	804	806	804	806	805	805	804	958	979	979	981	982	981	980	980	979	980	980	979	980	980	978	979	981
JMJC	U005	979	705	595	724	775	603	457	399	477	651	698	759	698	700	545	404	322	239	148	0	0	0	0	0	0	0	0	0	0	0	0	0	
PKLG	U003	283	285	283	280	282	280	282	279	279	278	280	281	281	280	227	282	281	282	280	280	279	280	282	281	282	280	280	281	282	202	213	276	
PKLG	U005	471	467	468	470	469	468	471	470	471	468	468	470	471	393	353	437	479	468	471	471	471	470	473	470	470	471	468	469	468	469	470	470	
PKLG	U006	465	466	470	468	469	466	472	470	468	470	467	470	468	468	470	469	464	466	468	467	470	468	469	464	470	470	470	468	469	468	468	468	
TBIN	U001	690	691	689	691	692	692	690	688	689	687	690	691	690	691	684	691	690	689	689	690	690	690	690	691	690	691	689	691	693	688	689	678	
TBIN	U002	692	693	690	693	693	689	692	690	692	693	689	693	702	691	693	689	690	690	694	693	690	692	691	692	689	692	693	687	691	693	691	691	
TBIN	U003	690	692	691	691	694	691	690	689	690	691	691	693	689	692	691	690	689	690	690	690	691	691	690	691	685	695	689	691	691	688	696	691	
TBIN	U004	983	982	982	927	843	784	783	782	784	782	783	782	784	782	783	783	783	820	920	980	980	980	980	980	980	980	980	980	980	980	980	980	
Total ST-Coal		8954	8654	8505	8515	8413	8120	8005	7921	8005	8203	8296	8371	8316	8222	7969	7977	7929	7835	7748	7785	7915	7987	7976	7980	7976	7977	7963	7988	7971	7978	796		

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	GT1B	197	213	218	216	218	218	217	219	211	175	161	172	152	171	219	142	143	219	211	197	136	216	214	216	212	217	217	215	216	214	217	211	195	212	214	210	216	213	215	211	211	215	216					
TJGS	ST1C	232	238	243	234	248	251	217	238	234	212	194	202	196	218	246	189	185	245	218	217	197	243	246	246	246	246	246	243	246	246	246	246	246	201	239	243	243	243	243	243	243	243	243					
TJGS	GT2A	213	212	212	212	212	212	212	182	147	148	146	147	147	147	148	146	146	146	213	213	213	214	211	212	212	213	213	213	212	212	212	211	211	211	145	198	208	209	208	209	209	210	208	210	215			
TJGS	GT2B	210	211	209	209	211	209	211	179	143	143	143	144	144	143	145	145	145	145	211	209	211	210	210	210	210	210	210	211	211	209	210	210	210	140	196	207	207	207	207	206	206	206	205	210				
TJGS	ST2C	258	258	258	258	258	258	258	240	211	211	211	211	211	211	211	211	211	211	258	258	258	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260				
YPKA	GT11	123	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
YPKA	ST10	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
YPKA	GT21	119	120	65	65	66	65	65	65	65	65	65	65	65	65	65	65	65	65	118	115	117	117	116	114	65	65	64	65	65	116	116	117	118	117	65	65	65	65	66	123	123	123	123	122	122	123	124	
YPKA	ST20	57	56	39	37	38	38	37	38	38	38	38	38	38	38	38	38	38	38	38	56	55	55	55	55	55	39	38	38	38	39	39	56	56	56	39	39	39	39	38	38	39	57	58	58	58	58	58	59
Total CCGT-Gas		6186	6157	5976	5671	5516	5499	5181	5091	4827	4475	4179	4156	4091	4148	4356	4002	4037	4866	5345	5760	5962	6468	6656	6647	6607	6214	6188	6330	6426	6585	6612	6825	6889	6824	6617	6485	6430	6339	6507	7058	7148	7273	7153	7015	6983	6904	6829	6879
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	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
BSIA	HY02	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
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		
CEND	HY03	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	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	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			
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
KNRG	HY02	25	25	24	25	25	25	25	26	25	25	25	25	25	25	25	25	25	25	25	24	25	25	25	24	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	26		
KNYR	HY01	0	0	0	0	0	98	96	96	96	96	95	96	96	96	96	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	0	0	0	0	
KNYR	HY02	-1	-1	-1	-1	-1	-1	96	96	96	96	96	96	96	96	96	96	96	96	96	96	-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		
KNYR	HY03	0	0	0	0	0	0	91	91	91	91	91	91	91	91	91	91	91	91	91	91	0	0	0	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	HY04	59	59	71	59	99	86	97	97	97	97	97	97	97	97	97	97	97	97	97	61	60	60	58	58	57	59	59	59	59	61	61	60	59	57	58	59	60	97	97	97	97	98	60	61	62			
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	4	2	2	2	2	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	5	5	5	
PGAU	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PGAU	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
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	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	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SYPS	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	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TMGR	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			
TMGR	HY04	32	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	32	33	33	31	32	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33		
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	94	95	88	92	-1	-1	42	92	92	98	98	96	94	94	92	90	-1	-1	93	92	93	92	89	89	93	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
UPIA	HY01	6	6	6																																													

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		
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	5	9	24	14	16	14	17	29	16	19	23	17	7	15	16	12	26	19	7	4	1	0	0	0	0	0	0	0	0	0	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	28	55	74	108	176	152	196	170	215	232	202	195	263	207	231	207	193	116	147	107	64	34	14	6	0	0	0	0	0	0	0	0	0
PCUF	CUFG	29	27	29	29	28	28	29	28	29	28	28	28	29	30	30	29	28	28	27	27	26	26	25	26	25	26	25	26	27	26	27	26	27	26	27	27	27	29	28	27	27	27	27	32	32	33	33		
PCUF	CUFK	36	35	34	32	36	36	37	34	35	36	37	35	35	36	37	36	36	35	35	36	34	31	31	33	32	31	29	33	29	29	27	29	30	27	29	29	31	30	32	31	32	33	32	33	35	33	33		
Total Co-Gen		65	62	63	61	64	66	62	64	64	65	63	63	64	66	65	66	65	64	64	62	58	58	60	58	57	54	59	54	55	54	55	57	54	55	56	58	59	60	58	59	60	60	59	60	67	65	66		
Total Gen		15365	15034	14716	14408	14194	13969	13735	13557	13380	13225	13022	13073	12953	12917	12874	12529	12543	13304	13714	14200	14680	14959	15210	15224	15160	14804	14729	14847	15039	15116	15146	15267	15337	15262	15084	14911	14820	14618	14800	15579	15998	16111	16054	15912	15650	15513	15415	15121	
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			
TIE-HVDC		-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28		
TIE-PLTG		8	9	16	-11	-48	22	-18	22	4	-9	19	-30	17	-5	30	72	-15	37	-38	9	29	-19	-2	-8	41	10	5	64	34	3	-4	70	7	22	24	43	15	10	6	-69	-14	-29	46	25	82	55	40	29	
Interconnection		-21	-20	-13	-40	-77	-7	-48	-7	-24	-37	-10	-59	-12	-34	1	43	-44	7	-67	-20	0	-48	-31	-37	12	-20	-24	34	5	-26	-34	40	-22	-6	-5	14	-14	-19	-24	-98	-43	-57	18	-3	53	26	12	1	
System Total		15386	15054	14729	14448	14271	13976	13783	13564	13404	13262	13032	13132	12965	12951	12873	12486	12590	13302	13802	14241	14704	15024	15265	15300	15193	14866	14790	14850	15063	15180	15206	15256	15379	15291	15102	14909	14851	14641	14825	15677	16041	16168	16036	15915	15597	15487	15403	15120	
SRev ST-Coal		156	157	306	296	268	280	344	428	343	297	292	417	273	339	373	313	308	304	340	245	195	123	134	130	134	133	147	122	139	132	141	128	108	138	121	138	125	122	121	183	137	151	130	131	136	127	136	134	
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		
SRev CCGT-Gas		945	909	807	1036	1051	1068	1386	1184	1448	1800	2096	2119	2324	2267	2059	2413	2378	1403	1000	953	968	538	409	561	601	994	1020	878	782	623	596	383	319	384	591	723	918	1085	1060	509	495	370	490	628	660	739	528	478	
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	
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	
SRev Co-Gen		-5	-2	-3	-1	-4	-4	-6	-2	-4	-4	-5	-3	-3	-4	-6	-5	-6	-5	-4	-4	-2	2	2	0	2	3	6	1	6	5	6	5	3	6	5	4	2	1	0	2	1	0	0	1	0	-7	-5	-6	
Syncon		689	689	689	689	689	689	588	588	588	588	588	588	588	588	588	588	588	588	588	588	401	502	502	502	502	689	689	502	502	502	502	502	502	502	523	502	502	689	689	502	401	401	401	401	401	401	422	710	
Hydro		143	142	131	142	102	117	121	121	120	121	122	121	121	121	121	121	121	121	121	121	226	244	264	287	250	162	164	308	258	242	220	218	220	224	223	229	237	135	153	317	255	254	275	285	248	322	313	172	
S.Reserve Total		1928	1895	1930	2162	2106	2150	2433	2319	2495	2802	3093	3242	3303	3311	3135	3430	3389	2411	2045	1903	1788	1409	1311	1481	1489	1981	2026	1811	1687	1504	1465	1236	1152	1254	1463	1596	1784	2032	2023	1513	1289	1176	1296	1446	1445	1582	1394	1488	