

Daily System Generation Summary on Saturday

Saturday, January 18, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,076 MW
Distillate	0 MW
Total TNB	2,076 MW
Total IPP	17,735 MW
Total Co-Gen	0 MW
Total System	22,286 MW

Generation Mix

Type	MWh	Percentage
Hydro	7,622	2.17 %
Gas	28,850	8.21 %
Total TNB	36,472	10.37 %
ST-Coal	238,549	67.86 %
LSS	2,181	0.62 %
Gas	75,039	21.35 %
Total IPP	315,769	89.82 %
Co-Gen	230	0.07 %
Total Co-Gen	230	0.07 %
Total Generation	352,471	100.26 %
PLTG	191	0.05 %
HVDC	727	0.21 %
Interconnection	918	0.26 %
Net Energy	351,553	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:	20:00:00 Hour
Total Set On Bus	17,753 MW
TNB Generation	2,146 MW
IPP Generation	14,027 MW
Spinning Reserve	1,569 MW
Maximum Demand	16,155 MW
Net Energy	351,553 MWH
Load Factor	90.67 %

Fuel Cost

Total Cost:	54,855,972.97 RM
Cost per Unit	15.55 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	392
Hydro	314
Syncon	1,017
Thermal	233
Total	1,956

Time	Weather	Temperature
Afternoon	Hot	36
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	51
TJGS	156
Total TNB	206
CBPS	51
KLPP	79
NPRI	147
PGLA	104
PLPS	1
SGRI	4
YPKA	35
Total IPP	421
Total Gas	627
Total Gas Required	627

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	15260	14554	14006	13493	13147	12942	12915	12848	12699	13955	14653	15269	15159	14990	15347	15596	15613	15454	15008	15015	16155	16050	15664	15464

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, March 09, 2020 1:19:00 PM

(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	U002	697	696	693	692	689	694	695	693	692	694	694	693	695	692	693	699	694	691	693	694	694	691	689	698	694	693	693	695	693																				
JMHE	U001	980	983	980	971	814	780	780	781	781	780	780	779	778	783	780	781	781	785	931	959	960	959	960	957	959	958	961	958	962	960	957	959	964	960	960	960	960	960	982	980	980	980	979	978	979	980	979		
JMHE	U002	979	983	976	957	780	781	779	778	780	782	777	780	780	781	778	783	781	783	781	930	960	961	959	956	960	957	959	958	960	959	958	959	964	960	959	956	961	960	982	981	979	980	979	980	981	979	979		
JMJG	U001	675	678	672	672	668	672	676	671	678	669	672	669	671	671	673	669	679	671	675	669	668	671	667	671	677	673	672	672	676	666	673	676	668	666	673	662	669	669	662	667	667	655	668	672	668	666	666	668	
JMJG	U002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
JMJG	U003	667	673	662	666	664	662	665	668	665	663	667	663	669	665	672	657	670	583	546	547	545	541	543	543	541	552	555	545	545	545	544	544	551	572	594	628	666	671	667	669	662	661	668	673	664	668	664	668	
JMJG	U004	902	906	867	787	787	786	786	786	787	786	785	787	788	787	788	787	789	832	906	903	904	902	904	900	898	900	899	899	898	899	899	898	899	899	900	898	897	896	888	889	889	889	888	891	891	889	889		
JMJG	U005	969	980	943	792	777	782	781	781	782	785	783	780	780	780	783	779	778	783	782	891	963	961	958	958	963	960	958	958	961	965	960	964	962	963	963	958	959	960	957	985	968	977	969	975	977	981	979	978	
PKLG	U003	283	283	284	289	280	280	278	281	269	280	285	283	286	276	275	206	208	280	280	285	280	278	272	280	281	280	281	281	280	284	280	280	279	285	285	286	290	283	274	282	279	273	281	283	279	274			
PKLG	U004	40	48	55	108	78	83	90	124	126	145	139	143	135	146	142	148	145	141	143	145	145	141	205	204	252	285	279	284	278	280	282	279	281	280	282	276	281	279	280	279	278	280	279	280	281	283	282	283	
PKLG	U005	467	466	468	466	469	466	466	468	467	467	467	467	466	466	462	399	406	463	466	467	470	465	468	467	467	468	464	466	468	468	467	466	467	468	467	465	468	466	467	466	467	468	466	466	468	465			
PKLG	U006	446	450	448	448	450	448	449	450	449	446	450	448	449	446	446	446	448	448	449	448	449	449	450	450	449	448	446	449	449	449	446	449	446	449	446	448	450	449	449	448	446	449	446	448	445	448	449	449	
TBIN	U001	686	685	689	689	690	691	687	688	663	691	689	691	690	691	690	690	691	692	693	687	689	690	691	690	694	684	689	691	691	689	690	691	689	690	690	690	689	691	693	690	687	689	690	689	690	690	690	690	
TBIN	U002	694	694	691	690	696	698	689	692	692	691	692	690	692	694	692	693	691	690	693	690	691	694	691	691	690	695	693	691	690	692	691	693	693	694	693	689	690	689	690	689	691	690	691	692	690	693	690	693	
TBIN	U003	690	689	691	691	690	690	691	692	690	691	691	689	691	691	689	692	690	693	692	689	691	688	690	691	690	689	693	688	692	690	686	693	689	690	691	689	690	690	691	692	689	690	690	692	690	689			
TBIN	U004	981	983	982	980	889	799	783	782	782	782	783	781	784	782	785	782	783	782	783	873	962	963	962	961	961	962	964	961	963	965	961	963	963	963	963	963	962	967	961	982	984	984	983	984	981	983	982	983	
Total ST-Coal		10156	10197	10101	9898	9421	9312	9295	9335	9302	9357	9349	9344	9383	9355	9352	9200	9232	9267	9301	9707	10033	10060	10110	10121	10171	10211	10201	10204	10193	10208	10202	10201	10202	10233	10259	10271	10317	10334	10309	10385	10368	10356	10377	10384	10375	10397	10382	10380	
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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CBPS	BLK2	360	369	362	353	365	361	361	357	319	241	222	220	221	226	218	226	229	325	370	363	357	365	359	358	357	354	346	359	358	358	358	363	359	360	360	363	356	301	298	363	363	361	361	362	362	362	362	360	
GLGR	GT01	68	69	67	68	68	67	67	68	68	67	69	67	69	67	68	70	68	68	86	84	85	86	84	84	68	86	85	83	104	102	101	97	70	97	101	102	102	102	102	102	102	102	102	103	101	101	102		
GLGR	GT02	68	68	68	68	68	68	67	68	68	67	68	68	68	69	66	68	68	68	86	86	85	86	85	86	67	87	86	86	100	100	100	95	67	97	99	100	99	99	99	99	99	99	99	100	100	99	98	99	
GLGR	ST1C	71	71	72	71	71	71	71	71	71	71	71	71	71	71	71	71	71	72	80	80	81	80	81	80	71	79	80	80	91	92	92	87	75	83	90	91	90	90	90	90	90	90	90	90	90	88	88		
KLPP	GT13	118	124	135	136	137	136	119	119	122	120	120	119	119	123	118	119	124	120	128	134	136	135	134	132	112	112	107	112	121	126	133	125	137	137	112	121	112	117	125	134	136	137	126	134	113	118	138	112	
KLPP	GT14	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	106	143	123	124	123	122	132	134	142	136	150	154	121	129	122	131	136	145	150	150	135	150	122	132	152	115			
KLPP	GT15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	145	145	145	143	142	123	123	119	123	135	135	144	135	150	149	122	127	123	130	135	143	146	148	138	143	125	126	148	118	
KLPP	ST17	118	58	60	56	56	56	52	52	56	51	51	52	52	53	56	60	60	60	59	134	134	124	187	196	192	190	187	190	200	196	203	196	203	203	187	192	187	196	192	196	200	203	200	200	196	192	203	186	
NPRI	BLK1	371	516	391	335	404	514	479	329	418	374	359	328	461	471	423	409	382	454	536	345	427	524	507	508	431	438	419	511	506	516	510	508	509	511	505	509	507	509	509	518	511	509	509	508	515	517	515	514	
NPRI	BLK2	509	523	508	494	511	511	510	507	512	511	507	512	316	323	317	318	326	511	523	512	503	510	508	511	500	502	497	512	506	516	511	508	510	511	505	509	508	511	511	517	509	511	511	510	517	516	515	515	
PCGP	PGRG	582	582	595	571	604	602	602	594	600	603	597	600	598	612	599	599	435	602	636	603	586	606	604	600	582	587	571	602	595	613	600	596	599	606	593	599	599	602	602	613	602	602	601	601	602	606	600	601	
PGLA	GT11	215	186	162	162	181	200	168	165	166	166	164	166	166	168	165	166	169	172	215	172	163	209	165	206	158	162	160	169	187	182	208	210	209	210	177	184	164	188	213	208	205	209	185	198	170	177	208	200	
PGLA	GT12	238	207	184																																														

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										
BSIA	HY02	12	12	11	11	11	12	12	11	12	11	11	11	11	12	11	11	12	12	11	11	11	22	22	22	22	21	22	22	22	22	22			
CEND	HY01	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	8	8	8	8	10	0	0	0	0	0	0	7	10	10	10	10	10	10	
CEND	HY02	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	0	0	0	0	0	0	0	0	10	10	10	10	10	10	10	
CEND	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	7	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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		
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		
KNRG	HY02	25	25	24	24	25	25	24	25	25	24	24	24	24	25	25	24	25	25	24	23	23	23	23	24	23	23	36	36	36	36	35	35	35	36
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	0	0	0	0	0	35	35	34	34	
KNYR	HY01	101	62	59	56	63	61	-1	-1	-1	-1	-1	-1	-1	-1	-1	59	58	-1	59	-1	-1	-1	-1	-1	60	60	-1	-1	-1	-1	-1	60	60	60
KNYR	HY02	98	64	0	0	0	0	0	0	0	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	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	60	60	60	
KNYR	HY04	100	63	60	57	81	84	62	61	92	63	60	59	61	85	59	67	102	63	104	68	58	92	67	68	58	57	55	58	59	101	60	85	60	75
LPJA	HY01	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	20	20	
MNOR	HY01	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	3	3	3	3	3	3	
PGAU	HY01	-1	-1	18	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	21	21	21	21	21	-1	-1	-1	
PGAU	HY02	-1	-1	-1	-1	19	-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	
PGAU	HY03	-1	-1	-1	-1	-1	19	-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	
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	50	51	51	
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	50	50	50	
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	17	25	25	
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	17	25	25	
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	17	25	25	
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	17	25	25	
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	31	31	62	62	84	84	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
TMGR	HY02	33	34	33	29	33	34	34	34	34	33	33	33	33	34	33	36	0	0	0	0	0	0	0	32	30	65	65	85	33	0	0	0	0	
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TMGR	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	61	61	61	
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	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	
UPIA	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
UPIA	HY02	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Total Hydro		505	297	243	234	270	273	169	166	199	169	164	163	165	191	163	173	209	173	220	239	249	258	350	312	301	248	230	251	267	392	386	301	270	
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	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	11	15	18	21	23	22	26	27	28	23	7	23	22	20	17	14		
CHLS	LSS1	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	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	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 LSS		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	
PCUF	CUFG	13	4	4	4	5	3	4	3	4	3	3	4	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
PCUF	CUFK	38	6	4	5	4	4	5	6	6	3	5	5	5	4	5	6	5	6	5	5	4	6	5	5	2	2	6	5	5	3	4	7	4	
Total Co-Gen		51	10	8	9	9	7	9	8	10	9	6	9	10	9	6	9	10	9	11	9	9	8	11	6	9	6	6	10	7	10	10	6	7	
Total Gen		15240	14795	14590	14256	14006	13843	13503	13356	13159	13059	12989	12966	12942	12990	12868	12732	12652	13371	13917	14360	14681	15027	15272	15423	15200	15066	15068	15264	15404	15610	15615	15701	15668	

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		
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		31	31	31	31	31	31	31	30	30	30	29	29	30	30	30	31	31	31	31	31	31	31	31	31	30	30	30	30	31	31	31	31	31	31	31	31	30	30	30	30	30	30	30	30	30	30	30	31	
TIE-PLTG		-40	-27	15	39	-21	8	-11	18	-7	-5	27	-20	7	12	0	15	-66	-20	-59	-19	7	13	-18	39	21	18	58	14	36	-21	-1	57	36	2	30	69	10	30	25	-40	8	21	-3	35	14	29	36	11	
Interconnection		-10	4	46	69	10	39	20	48	22	25	57	9	37	42	30	45	-37	10	-28	12	38	44	13	69	51	48	88	45	67	9	29	87	65	33	61	100	41	61	56	-10	39	51	27	65	44	59	66	42	
System Total		15260	14801	14554	14197	14006	13814	13493	13318	13147	13044	12942	12967	12915	12958	12848	12697	12699	13371	13955	14358	14653	14993	15269	15364	15159	15028	14990	15229	15347	15611	15596	15624	15613	15659	15454	15166	15008	14951	15015	15898	16155	16104	16050	15928	15664	15550	15464	15347	
SRev ST-Coal		170	139	235	357	594	580	579	539	596	573	581	582	567	565	570	641	622	567	561	413	243	216	167	225	175	209	219	216	227	212	218	219	218	187	161	149	243	226	251	175	192	204	183	176	185	163	178	180	
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		1112	486	539	662	471	310	531	714	913	1037	1091	1111	1177	1126	1214	1211	1371	675	423	517	573	454	362	299	588	700	719	538	385	309	223	189	232	272	431	638	878	828	754	214	224	209	302	244	368	403	356	493	
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		19	60	62	61	61	63	61	62	60	61	64	61	60	61	64	61	60	61	59	61	61	62	59	64	61	64	64	60	63	60	60	64	63	59	62	64	60	60	61	61	59	63	61	62	59	61	60	60	
Syncon		1253	1253	1102	1102	1102	1102	1355	1355	1355	1355	1355	1355	1355	1355	1355	1355	1355	1355	1355	1167	1016	1117	1016	1117	1117	1114	1265	1265	1114	1013	862	963	963	963	1114	1265	1265	1268	1268	1117	491	678	678	1016	1118	1118	1118	1118	
Hydro		110	218	323	332	296	293	145	148	115	145	150	151	149	123	151	141	105	149	102	128	269	191	292	251	262	318	193	151	278	254	441	338	369	324	179	60	61	157	135	264	609	545	552	362	275	273	285	287	
S.Reserve Total		2664	2156	2261	2514	2524	2348	2671	2818	3039	3171	3241	3260	3308	3230	3354	3409	3513	2807	2500	2286	2162	2040	1896	1956	2203	2405	2460	2230	2067	1848	1804	1773	1845	1805	1947	2176	2507	2539	2469	1831	1575	1699	1776	1860	2005	2018	1997	2138	