

Daily System Generation Summary on Sunday

Sunday, November 25, 2018

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	1,968 MW
Hydro	2,444 MW
Distillate	0 MW
Total TNB	4,412 MW
Total IPP	16,753 MW
Total Co-Gen	0 MW
Total System	21,737 MW

Generation Mix

Type	MWh	Percentage
Gas	19,447	5.97 %
Hydro	9,381	2.88 %
Total TNB	28,828	8.85 %
ST-Coal	214,440	65.86 %
Gas	81,762	25.11 %
Total IPP	296,202	90.97 %
Co-Gen	1,316	0.40 %
Total Co-Gen	1,316	0.40 %
Total Generation	326,346	100.23 %
PLTG	96	0.03 %
HVDC	653	0.20 %
Interconnection	749	0.23 %
Net Energy	325,597	100.00 %

Maximum Demand Record

Date: 8/15/2018	18,338 MW
Date: 8/15/2018	388,524 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	20:00:00 Hour
Total Set On Bus	16,728 MW
TNB Generation	1,711 MW
IPP Generation	13,399 MW
Spinning Reserve	1,562 MW
Maximum Demand	15,142 MW
Net Energy	325,597 MWH
Load Factor	89.60 %

Fuel Cost

Total Cost:	62,197,569.99 RM
Cost per Unit	19.62 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	350
Hydro	236
Syncon	850
Thermal	343
Total	1,779

Time	Weather	Temperature
Afternoon	Hot	36
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	46
PGPS	0
TJGS	98
Total TNB	145
CBPS	54
KLPP	54
NPRI	153
PGLA	93
PLPS	37
SGRI	45
SKSP	1
YPKA	75
Total IPP	513
Total Gas	658

Total Gas Required 658

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	14560	13988	13496	13173	12784	12524	12358	12094	11866	12279	12988	13520	13572	13543	13754	13885	13946	13769	13474	14421	15142	15105	14782	14491

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, November 27, 2018 9:50:23 AM

(Ir. Shanmugam Thoppalan)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Sunday

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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JMJG	U003	661	663	662	664	662	662	662	667	664	662	663	668	659	662	663	665	665	664	662	662	661	662	663	665	662	662	666	662	662	662																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
JMJG	U004	977	975	977	976	977	892	804	785	785	783	783	785	788	786	786	785	785	785	786	796	863	862	865	866	865	867	866	866	866	801																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
JMJG	U005	981	983	982	985	982	956	804	783	778	776	778	782	776	782	778	778	781	780	778	779	804	858	862	861	864	862	862	861	864	862	862																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
PKLG	U003	280	283	283	284	281	282	279	278	283	281	281	286	280	282	281	282	280	283	284	286	287	283	283	281	280	283	285	283	281	285																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
PKLG	U004	88	105	102	115	107	143	145	144	146	144	144	145	146	147	144	142	144	143	144	143	144	145	145	145	144	143	144	145	145	140																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
PKLG	U006	472	468	468	471	467	469	469	469	472	468	472	472	472	471	466	467	470	468	470	469	470	474	468	471	468	470	468	469	469	471																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Total ST-Coal		9205	9228	9227	9250	9223	9136	8801	8723	8735	8716	8710	8744	8723	8734	8725	8723	8721	8717	8728	8740	8774	8946	8946	8946	8949	8954	8937	8948	8965	8949	8945	8944	8951	8945	8964	8943	8946	9029	9245	9224	9225	9233	9021	8925	8919	8912	8741																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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 Sunday

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 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
BSIA	HY02	23	23	23	23	13	13	13	13	13	13	13	13	12	12	12	12	12	11	11	11	11	11	11	12
CEND	HY01	6	6	6	6	6	6	6	6	6	6	6	7	7	7	10	10	9	10	9	7	7	7	6	6
CEND	HY02	0	0	0	0	0	0	0	0	0	0	0	7	7	7	7	7	10	9	9	7	7	7	6	6
CEND	HY03	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0	0	0	0	0	0	0	7	6	7
CEND	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	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
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	HY02	37	37	37	37	37	37	37	38	38	38	38	38	24	25	25	25	38	38	38	38	38	38	38	38
KNRG	HY03	37	37	37	37	37	37	29	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	100	60	61	60	60	57	58	59	61	59
KNYR	HY02	59	85	66	79	61	66	92	77	58	60	69	61	60	67	60	60	60	63	64	103	81	96	61	72
KNYR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99	98
KNYR	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99	99	99
LPJA	HY01	21	21	21	21	21	21	21	21	21	21	21	21	21	21	27	27	27	20	20	20	20	20	20	20
LPJA	HY02	15	15	15	15	15	15	0	0	0	0	0	0	0	0	0	0	0	15	15	15	15	15	15	15
MNOR	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	6	6	6	6
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	21
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	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
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	HY03	51	51	51	51	51	51	51	51	51	51	51	51	50	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	16	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	16	24
SYPS	HY03	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17
SYPS	HY04	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17
TMGR	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
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
TMGR	HY04	31	33	33	33	33	33	32	33	33	33	33	33	33	33	32	33	33	33	32	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	-1	-1	-1	-1
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	-1	-1
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	5	6	5	6
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6
Total Hydro		348	376	357	370	302	297	323	285	238	263	249	241	239	263	246	175	176	176	177	193	192	338	265	282
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
PCUF	CUFG	26	25	26	29	29	29	30	30	29	29	29	29	29	28	31	30	29	27	26	26	25	26	24	25
PCUF	CUFK	34	29	29	27	29	29	30	28	28	28	27	28	28	29	29	28	29	26	27	26	28	27	27	27
Total Co-Gen		60	54	55	56	58	58	60	58	57	57	56	57	57	58	57	59	59	55	54	52	54	52	53	51
Total Gen		14641	14392	13993	13772	13519	13408	13181	12984	12815	12742	12555	12485	12377	12448	12139	11785	11856	12221	12298	12731	13013	13421	13472	13616
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
TIE-HVDC		30	30	30	30	30	30	30	30	30	30	30	30	30	30	31	31	30	30	29	29	31	31	30	30
TIE-PLTG		59	-24	-18	4	0	-14	-14	-32	8	30	7	17	-4	24	22	6	-22	44	0	-6	14	-16	-12	37
Interconnection		88	6	12	34	30	16	15	-2	38	60	38	47	26	54	52	36	8	74	30	24	44	13	17	68
System Total		14560	14393	13988	13745	13496	13399	13173	12993	12784	12689	12524	12445	12358	12401	12094	11760	11866	12166	12279	12722	12988	13441	13520	13607
SRev ST-Coal		224	201	202	199	226	456	402	466	388	407	415	388	397	395	399	406	403	410	396	387	345	363	363	363
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
SRev CCGT-Gas		582	660	495	600	458	349	269	348	481	560	726	823	908	873	1155	1438	1366	993	927	520	393	302	416	287

Daily MW Generation on Sunday

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			
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 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 Co-Gen		3	9	8	7	5	5	3	5	6	6	7	6	6	5	6	4	4	8	9	11	9	11	10	12	11	10	11	13	12	11	10	11	9	8	8	11	10	10	9	7	9	9	7	12	10	11	7	6	9	6
Syncon		1200	1200	1200	1200	1200	1200	1200	1200	1200	1049	1200	1200	1200	1200	1049	1200	1200	1200	1200	1200	1099	912	912	912	912	912	912	912	912	912	912	1013	1013	1013	1013	1200	1200	1099	928	777	777	777	439	863	863	863	1014			
Hydro		124	96	115	102	120	125	99	110	119	245	108	116	118	245	111	132	131	131	130	114	115	69	144	127	164	144	159	161	277	126	160	160	89	121	144	95	141	141	96	222	325	333	359	609	442	511	425	252		
S.Reserve Total		2133	2166	2020	2108	2009	2135	1973	2129	2194	2267	2456	2533	2629	2567	2871	3180	3104	2742	2662	2232	2062	1852	1845	1701	1758	1747	1921	1842	1777	1661	1958	1930	1899	1958	2146	2404	2786	2784	1858	1683	1558	1569	1613	1866	2016	1950	2057	2044		