

Daily System Generation Summary on Thursday

Thursday, November 22, 2018

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,094 MW
Hydro	2,454 MW
Distillate	0 MW
Total TNB	4,548 MW
Total IPP	16,801 MW
Total Co-Gen	63 MW
Total System	21,984 MW

Generation Mix

Type	MWh	Percentage
Gas	20,937	5.77 %
Hydro	10,306	2.84 %
Total TNB	31,243	8.61 %
ST-Coal	221,648	61.07 %
Gas	109,357	30.13 %
Total IPP	331,005	91.20 %
Co-Gen	1,307	0.36 %
Total Co-Gen	1,307	0.36 %
Total Generation	363,555	100.17 %
PLTG	-98	-0.03 %
HVDC	724	0.20 %
Interconnection	626	0.17 %
Net Energy	362,929	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:	14:30:00 Hour
Total Set On Bus	18,686 MW
TNB Generation	1,620 MW
IPP Generation	15,352 MW
Spinning Reserve	1,660 MW
Maximum Demand	17,109 MW
Net Energy	362,929 MWH
Load Factor	88.39 %

Fuel Cost

Total Cost:	70,147,163.03 RM
Cost per Unit	19.85 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	402
Hydro	368
Syncon	805
Thermal	196
Total	1,771

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	46
TJGS	107
Total TNB	153
CBPS	55
KLPP	99
MPSS	30
NPRI	112
PGLA	114
PKLG	13
PLPS	94
SGRI	73
SKSP	47
YPKA	79
Total IPP	716
Total Gas	869

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Total Gas Required 869

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	14527	13853	13331	12970	12719	12553	12862	13032	13486	15154	15963	16619	16517	16134	16776	17022	17057	16674	15791	16060	16646	16243	15705	15278

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, November 27, 2018 9:48:22 AM

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

Daily MW Generation on Thursday

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	693	692	696	692	693	694	693	694	693	694	692	693	694	694	693	692	693	691	695	691	693	692	693	693	692	695	691	693	693	693	692	692																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
JMAH	U002	694	694	695	692	695	696	692	693	693	692	694	693	695	694	704	694	694	694	693	692	694	694	692	696	695	693	693	693	695	690	694	690	701	698	694	693	695																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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JMJG	U003	690	669	666	670	668	662	667	668	668	662	667	667	666	667	666	669	667	666	667	662	663	667	667	666	666	660	665	662	661	662	662	662	662	663	663	661	665																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
JMJG	U004	978	888	804	785	785	785	785	785	786	785	785	786	787	782	786	786	785	786	873	960	980	980	982	983	982	983	979	982	983	981	982	981	982	983	981	983	983	983	936																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
JMJG	U005	962	829	781	780	782	780	783	778	781	779	780	780	778	781	782	781	782	779	890	980	981	986	982	983	981	979	980	981	982	983	981	980	977	983	979	983	983	977	983	981	982	982	980	982	980	982	982	979																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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PKLG	U004	281	280	278	277	278	280	278	277	278	277	280	278	280	280	279	281	280	279	281	280	281	282	280	280	278	278	279	281	283	281	279	280	279	280	279	278	278	280	279	279	280	279	278	282	281	280	280																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
PKLG	U005	247	240	202	168	137	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
PKLG	U006	472	471	471	467	470	470	471	470	471	471	468	469	468	470	472	471	467	470	472	468	470	471	469	471	472	467	472	468	466	472	470	470	472	470	468	470	468	470	473	470	469	470	473	470	469	472	457	466	467																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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TBIN	U004	942	857	803	802	803	803	802	802	803	804	802	803	803	803	807	896	952	952	952	952	953	951	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	952	9

Daily MW Generation on Thursday

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	GT2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56																								
YPKA	GT11	128	67	66	67	66	66	67	67	66	67	67	67	66	66	67	128	133	135	132	132	131	130	132	131	130	129	129																						
YPKA	GT12	0	0	0	0	0	0	0	0	0	0	0	0	22	136	136	136	137	134	133	135	134	134	133	130	129	128																							
YPKA	ST10	55	34	34	34	34	34	34	34	34	34	34	34	33	110	126	128	128	128	128	128	128	128	127	127	127	128																							
YPKA	GT21	123	65	65	65	65	65	65	65	65	65	65	65	65	136	136	136	134	132	133	131	133	128	130	129	129	133																							
YPKA	ST20	61	40	38	38	38	38	38	37	37	37	38	38	38	37	63	64	63	64	63	63	63	62	62	62	63	62																							
Total CCGT-Gas		4619	4516	4504	4200	4101	3958	3866	3735	3594	3520	3464	3638	3782	4107	3963	3891	4359	5160	5516	5635	5740	6020	6197	6340	6265	6150	6052	6229	6424	6635	6607	6642	6697	6847	6661	6361	6083	5970	6357	6376	6363	6220	6068	6150	5934	5902	5655	5361	
PKLG	GT08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98	98	99	98	99	98	98	97	96	97	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PKLG	GT09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	101	101	101	100	100	100	100	99	99	98	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200	199	200	199	199	198	198	196	195	195	196	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	13	12	11	11	11	0	0	0	0	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	11	11	11	11	11	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		
BSIA	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12	11	12	11	0	0	0	0	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	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	8	8	8	8	8	8	8	8	8	5	6	6	6	6	6	6	6	6	6	6	6	5	6	6	6	5	6	6	5	6	6	6		
CEND	HY02	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	8	9	9	9	9	9	9	9	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
CEND	HY03	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0	0	0	0	0	0	0	0	9	9	5	5	5	6	5	6	5	6	5	6	5	5	5	5	5	5	5	5	6	5	6	5		
CEND	HY04	6	6	6	6	7	7	6	7	7	6	7	7	7	7	7	6	6	6	6	6	0	0	6	7	7	7	6	6	7	7	7	7	6	6	7	6	6	7	6	7	6	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	-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	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	23	23	23	0	0	0	0	0	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	26	26	26	26	26	26	25	26	25	25	25	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	25	25	25	26	25	26	26	26	26	26	26			
KNRG	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22	22	21	21	0	0	0	0	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	96	96	96	95	95	95	-1	-1	-1	-1	96	96	95	95	95	99	99	99	-1	-1	-1	59	98	98	96	95	-1	-1	-1	-1	-1	-1	-1		
KNYR	HY02	58	59	60	57	58	57	58	57	57	58	60	60	60	60	98	98	98	98	97	97	98	96	58	57	63	60	74	57	58	58	60	59	59	58	61	60	76	71	55	56	65	56	80	61	60	60	60		
KNYR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	59	56	58	55	0	0	0	60	59	57	58	58	60	58	0	0	0	0	98	98	96	95	0	0	0	0	0	0	0	0	0	0	
KNYR	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	60	58	0	0	0	0	60	58	58	58	60	59	0	0	0	0	97	97	95	94	0	0	0	0	0	0	0	0	0	0	0		
LPJA	HY01	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	15	10	10	10	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21		
LPJA	HY02	15	15	15	18	18	18	17	16	16	16	16	18	18	18	18	19	16	18	18	19	19	19	16	16	16	16	16	18	29	29	29	28	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	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	3	3	6	6	6	6	6	6	6	6	6	6	6	6		
PGAU	HY01	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	20	20	23	19	-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	-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	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	50	51	51	50	50	50	50	0	0	0	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	25	25	25	25	25	25	17	0	0	0	0	25	19	25	25	25	25	25	0	0	0	0		
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	16	16	16	16	16	16	16	16	24	24	24	24	24	16	0	0	0	0	24	24	24	24	24	24	24	0	0	0	0	0	0	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	16	16	16	16	16	16	16	16	25	25	25	25	25	16	0	0	0	0	25	25	25	25	25	25	25	25	25	0	0	0	0	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	16	16	16	16	16	16	16	25	25	25	25	25	16	0	0	0	0	15	25	25	25	25	25	25	25	25	0	0	0	0		
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	31	31	31	31	-1	-1	-1	-1	-1	-1	34	34	33	34	33	34	34	34	-1	-1	-1	-1	35	36	35	34	-1	-1	-1	-1	-1	-1		
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	34	34	34	34	32	-1	-1	-1	-1	35	35	33	34	33	34	34	35	-1	-1	-1	-1	37	38	36	-1	-1	-1	-1	-1	-1	-1		
TMGR	HY04	34	34	34	34	32																																												

Daily MW Generation on Thursday

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	CUFK	30	28	27	28	27	29	28	28	28	28	27	25	27	28	27	30	30	29	29	30	28	30	29	28	30	29	28	28	29	28	26	27	27	28	27	27	28	29	28	27	28	27	27	26	27	28	28	
Total Co-Gen		58	56	55	55	54	57	55	56	57	57	56	54	56	56	54	58	58	57	56	57	52	56	53	54	56	56	54	54	54	54	52	51	51	52	51	51	54	55	53	53	52	53	53	52	53	55	55	
Total Gen		14532	14096	13856	13495	13375	13159	12988	12861	12731	12628	12585	12753	12900	13228	13084	13015	13485	14518	15181	15584	15981	16272	16613	16590	16495	16183	16085	16387	16725	17026	16970	16995	17058	16965	16705	16178	15842	15635	16099	16701	16679	16511	16292	16111	15783	15579	15318	14983
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	
TIE-HVDC		30	30	31	31	31	31	30	30	31	31	30	30	30	30	30	30	30	30	31	31	31	31	30	30	30	30	30	30	30	29	29	31	31	30	30	30	30	30	30	30	31	31	31	31	29			
TIE-PLTG		-25	-8	-28	4	14	-11	-12	-70	-18	14	2	28	8	12	21	12	-25	-23	0	-12	-3	-71	-14	-36	-8	-22	-29	-16	-25	-59	-19	-18	26	-30	42	28	35	3	9	2	2	14	19	-8	48	6	9	37
Interconnection		5	22	3	35	44	20	18	-40	12	44	32	58	38	42	52	43	5	6	31	18	27	-40	16	-6	21	8	1	14	4	-29	10	11	56	1	72	58	65	33	39	32	33	44	49	23	78	37	40	67
System Total		14527	14074	13853	13460	13331	13139	12970	12901	12719	12584	12553	12695	12862	13186	13032	12974	13486	14521	15154	15576	15963	16336	16619	16632	16517	16214	16134	16426	16776	17109	17022	17048	17057	17009	16674	16147	15791	15607	16060	16669	16646	16467	16243	16088	15705	15542	15278	14916
SRev ST-Coal		176	414	485	524	549	89	102	100	88	114	104	93	94	91	298	401	400	409	395	222	220	192	220	199	195	200	202	205	210	197	197	211	105	113	209	183	204	204	197	108	109	105	230	192	205	209	206	246
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-4	-3	-4	-3	-2	-2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SRev CCGT-Gas		704	807	600	679	778	921	1013	1144	1285	1359	1415	1241	1097	792	966	1038	1052	602	360	241	385	193	136	313	388	543	641	544	684	238	516	467	412	262	498	798	915	1028	491	372	385	578	514	432	648	680	515	706
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	
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	
SRev Co-Gen		5	7	8	8	9	6	8	7	6	6	7	9	7	7	9	5	5	6	7	6	11	7	10	9	7	7	9	9	9	9	9	11	12	12	11	12	12	9	8	10	10	11	10	10	11	10	8	8
Syncon		1049	1049	1049	1049	1049	1049	1049	1049	1049	1049	1049	1049	1049	1049	1049	1049	1049	948	948	778	626	777	777	963	1114	1200	1200	1099	777	777	777	777	777	928	928	1115	1200	1013	912	554	554	554	640	826	1013	1013	1013	1013
Hydro		140	139	138	138	136	139	139	138	140	143	149	144	142	142	142	142	142	102	97	205	636	506	508	409	288	169	172	144	418	439	466	460	458	346	325	190	142	140	172	334	342	370	327	242	153	122	141	142
S.Reserve Total		2074	2416	2280	2398	2521	2204	2311	2438	2568	2671	2724	2536	2389	2081	2464	2635	2648	2067	1807	1452	1878	1675	1647	1890	1988	2116	2221	1999	2096	1660	1966	1927	1764	1661	1971	2298	2473	2394	1780	1378	1400	1618	1721	1702	2030	2034	1883	2115