

Daily System Generation Summary on Thursday

Thursday, February 22, 2018

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,791 MW
Hydro	2,230 MW
Distillate	0 MW
Total TNB	<u>5,021 MW</u>
Total IPP	<u>16,152 MW</u>
Total Co-Gen	<u>57 MW</u>
Total System	<u>21,802 MW</u>

Generation Mix

Type	MWh	Percentage
Gas	46,127	12.96 %
Hydro	9,543	2.68 %
Total TNB	55,670	15.64 %
ST-Coal	200,897	56.43 %
Gas	97,679	27.44 %
Total IPP	298,576	83.87 %
Co-Gen	1,331	0.37 %
Total Co-Gen	1,331	0.37 %
Total Generation	355,577	99.88 %
PLTG	278	0.08 %
HVDC	-696	-0.20 %
Interconnection	-418	-0.12 %
Net Energy	355,995	100.00 %

Maximum Demand Record

Date: 10/23/2017	17,790 MW
Date: 4/20/2016	372,457 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	15:30:00 Hour
Total Set On Bus	18,148 MW
TNB Generation	3,085 MW
IPP Generation	13,663 MW
Spinning Reserve	1,344 MW
Maximum Demand	16,815 MW
Net Energy	355,995 MWH
Load Factor	88.21 %

Fuel Cost

Total Cost:	65,269,083.03 RM
Cost per Unit	18.86 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	328
Hydro	435
Syncon	705
Thermal	101
Total	1,569

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
CBPS	43
GLGR	50
PGPS	38
TJGS	209
Total TNB	341

CBPS	55
KLPP	101
MPSS	46
NPRI	79
PDPS	7
PGLA	110
PLPS	91
PTEK	4
SGRI	37
SKSP	47
YPKA	85
Total IPP	661
Total Gas	1,002

Total Gas Required	1,002
---------------------------	--------------

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	14443	13855	13389	12906	12538	12462	12715	12782	12965	14616	15582	16206	16081	15911	16459	16807	16787	16438	15279	15007	16021	15883	15435	15094

Prepared By: Abu Bakar bin K.K. Ibrahim

Checked By: Kannathason a/l Kuruppiah

Printed on: Friday, February 23, 2018 8:01:29 AM
(Gurcharan Singh)
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	694	691	692	692	692	693	691	692	694	692	693	693	693	692	694	692	692	694	690	694	691	689	691	693	695	691	692	690	694	693	692	693	692	691																	
JMAH	U002	692	694	696	693	695	694	693	693	695	693	694	693	695	690	694	694	692	691	694	693	692	691	690	694	692	695	694	692	695	695	696	694	694	693	693																
JMJG	U001	541	546	545	541	548	548	588	673	676	677	676	674	679	671	676	677	673	682	678	670	688	669	674	672	674	678	596	596	594	598	593	596	598	599	589	595	597	596	596	594	596	597	637	685	676	678	677				
JMJG	U002	598	596	593	596	596	596	596	594	597	596	596	596	593	598	598	595	598	598	607	597	597	596	596	608	636	637	634	640	634	657	634	632	626	634	629	632	629	632	632	634	632	634	629	632	637	626	633				
JMJG	U003	634	629	631	629	631	626	629	628	632	627	630	629	629	631	632	626	629	628	628	630	630	628	628	623	634	626	633	625	631	626	626	626	602	588	596	592	595	593	592	598	596	591	592	592	595	590	590	594			
JMJG	U004	971	972	922	885	881	885	884	824	783	786	785	790	787	790	787	787	787	811	882	887	972	978	979	980	980	982	979	982	978	979	978	980	981	980	980	979	979	974	977	979	980	979	974	979	980	974	971	972			
JMJG	U005	983	979	880	882	881	881	880	855	782	778	780	781	781	782	780	779	783	820	881	887	985	983	983	977	979	981	981	982	980	983	981	978	979	983	977	985	978	981	980	977	980	977	983	979	980	983	981				
PKLG	U004	281	283	282	281	281	280	280	280	281	279	282	281	282	280	279	280	280	279	281	280	280	279	281	280	279	281	281	279	278	279	278	280	280	281	281	279	278	278	279	277	279	279	277	279	281	281	282				
PKLG	U005	466	472	457	470	466	472	471	464	475	468	468	468	469	470	469	468	468	470	469	474	465	428	425	423	424	426	424	437	470	467	467	467	469	469	468	468	468	465	455	466	464	464									
PKLG	U006	469	472	469	469	470	470	468	470	469	470	470	471	469	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470				
TBIN	U002	691	688	689	690	693	690	691	687	689	693	691	692	691	690	691	687	689	689	689	690	688	688	689	690	689	689	690	696	689	689	689	689	689	689	689	690	690	689	691	688	690	689	689	691	691	691	691	691			
TBIN	U003	692	690	693	691	690	690	687	693	689	690	686	691	691	691	692	691	689	689	689	690	689	690	689	689	690	689	689	690	696	689	689	689	689	689	689	690	690	689	691	688	690	689	689	691	691	691	691	691			
TBIN	U004	0	0	0	0	0	0	229	236	270	344	325	380	434	498	543	615	651	701	740	780	870	957	981	982	983	982	982	983	983	981	981	982	981	982	980	982	982	982	982	982	982	981	980	981	980	981	983	980			
Total ST-Coal		7712	7712	7549	7519	7524	7525	7560	7781	7694	7723	7797	7778	7840	7887	7960	7997	8064	8165	8353	8414	8628	8663	8761	8770	8882	8818	8745	8742	8756	8782	8782	8792	8755	8735	8744	8730	8751	8736	8743	8745	8744	8740	8741	8783	8816	8825	8811	8818			
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	
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	0	0
CBPS	GT1A	98	62	0	0	0	0	0	0	0	0	0	0	0	21	8	28	43	84	98	98	96	96	95	95	95	95	96	96	96	96	96	96	97	99	89	89	90	100	100	100	77	18	0	0	0	0					
CBPS	GT1B	98	87	88	100	100	87	87	87	87	87	88	88	87	88	88	87	84	85	81	97	98	98	98	98	98	98	96	96	96	96	96	96	97	99	89	91	90	91	100	100	100	89	89	94	101	101					
CBPS	ST1C	101	69	38	44	43	36	35	34	34	34	33	33	33	34	35	35	36	37	32	31	79	100	101	100	100	101	99	99	99	99	97	100	101	101	89	89	88	89	102	101	102	87	38	37	43	44					
CBPS	BLK2	363	351	375	358	365	368	362	369	362	362	366	361	366	366	366	365	359	365	364	362	369	363	363	357	359	365	363	361	363	363	360	360	356	341	355	362	351	362	362	352	353	362	361	360	363	368	363				
GLGR	GT01	67	66	68	82	82	68	67	69	67	68	67	69	67	69	69	100	99	98	99	98	100	99	98	100	99	99	100	100	99	99	100	100	99	99	100	100	99	99	97	71	66	68	69	100	99	91	67	78	85	100	
GLGR	GT02	67	67	67	85	84	68	67	67	68	67	68	67	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68		
GLGR	ST1C	72	72	72	84	84	72	72	72	72	71	72	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71		
KLPP	GT13	134	132	142	137	132	136	125	75	71	73	72	72	73	108	74	72	72	120	120	138	145	147	146	145	146	146	145	145	147	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145		
KLPP	GT14	154	154	153	153	155	155	136	108	82	81	81	83	112	82	80	82	120	125	145	154	155	155	156	156	155	155	155	155	154	155	155	154	154	155	154	141	140	142	152	157	156	157	155	154	154	153	157	157			
KLPP	GT15	148	146	148	80	0	0	0	0	0	0	0	0	0	0	33	143	147	147	150	150	150	151	151	151	147	151	147	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148		
KLPP	ST17	205	201	205	189	137	133	129	108	96	92	88	92	92	118	90	98	98	126	190	202	206	207	207	205	205	203	203	202	202	203	203	203	203	202	204	204	194	194	196	202	208	208	206	202	201	201	198	174			
MPSS	GT01	108	108	108	108	108	92	91	91	90	90	89	89	91	88	90	90	89	90	89	90	89	91	106	105	105	104	103	104	103	103	102	104	105	105	104	104	104	104	103	103	103	105	106	106	105	105	105	105	105	105	
MPSS	GT02	108	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
MPSS	ST01	115	93	50	52	53	40	40	41	38	37	39	39	39	37	37	39	39	39	42	73	113	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114		
NPRI	BLK1	512	513	514	515	513	514	514	515	510	511	512	512	514	514	514	514	514	515	514	514	514	514	515	514	514	513	512	513	513	513	513	514	513	513	514	513	513	514	513	513	514	525	527	528	530	528	519	520	520	520	
PCGP	PGRG	390	382	411	395	400	405	404	284	263	264	265</																																								

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
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	23	24	24	25	23	23	22	23	23	22	23	24	24	22	21	19	19	20	22	24	24	23	23	24
PCUF	CUFK	31	32	32	32	32	33	31	31	32	32	33	32	32	33	32	31	31	32	30	30	30	30	31	30
Total Co-Gen		54	56	56	57	55	56	54	53	55	55	55	56	54	55	58	56	56	53	52	51	52	55	56	54
Total Gen		14454	14665	13902	13548	13382	13051	12870	12708	12496	12469	12386	12541	12655	12848	12732	12630	12920	13962	14590	15075	15519	15878	16192	16257
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		-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-30	-30	-28	-28	-31	-29	-28
TIE-PLTG		40	58	-24	28	22	-47	-6	-17	-13	-6	-48	15	-31	62	-20	-24	-15	-65	4	-3	-33	28	14	26
Interconnection		11	29	-53	0	-7	-77	-36	-46	-42	-35	-76	-14	-60	33	-50	-53	-45	-94	-26	-33	-63	0	-14	-3
System Total		14443	14036	13855	13548	13389	13128	12906	12746	12538	12504	12462	12555	12715	12915	12782	12683	12965	14056	14616	15108	15582	15878	16206	16260
SRev ST-Coal		102	102	245	252	243	246	209	103	246	248	267	258	243	259	232	258	247	109	51	50	116	95	107	118
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		666	936	624	772	444	717	933	1324	1440	1495	1650	1477	1426	1278	1490	1609	1384	476	413	529	370	274	192	220
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
SRev Co-Gen		3	1	1	0	2	1	3	4	2	2	2	1	3	2	-1	1	1	4	5	6	5	2	1	2
Syncon		892	978	1079	978	978	1079	1079	1079	1110	1167	1167	1167	1167	1167	1167	1167	865	865	764	764	764	865	865	764
Hydro		148	165	142	96	173	132	130	129	132	132	134	133	133	133	262	134	134	131	94	355	341	484	463	380
S.Reserve Total		1811	2182	2091	2098	1840	2175	2354	2639	2899	2987	3220	3037	2970	2840	3062	3167	2933	1884	1729	1784	1698	1622	1528	1483