

Daily System Generation Summary on Thursday

Thursday, August 01, 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	17,351 MW
Total Co-Gen	0 MW
Total System	22,173 MW

Generation Mix

Type	MWh	Percentage
Hydro	9,619	2.60 %
Gas	35,333	9.54 %
Total TNB	44,952	12.14 %
ST-Coal	211,591	57.13 %
LSS	1,836	0.50 %
Gas	110,184	29.75 %
Total IPP	323,611	87.37 %
Co-Gen	1,426	0.39 %
Total Co-Gen	1,426	0.39 %
Total Generation	369,989	99.90 %
PLTG	301	0.08 %
HVDC	-684	-0.18 %
Interconnection	-383	-0.10 %
Net Energy	370,372	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:	15:00:00 Hour
Total Set On Bus	18,624 MW
TNB Generation	2,228 MW
IPP Generation	15,040 MW
Spinning Reserve	1,300 MW
Maximum Demand	17,414 MW
Net Energy	370,372 MWH
Load Factor	88.62 %

Fuel Cost

Total Cost:	71,126,034.45 RM
Cost per Unit	19.21 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	636
Hydro	298
Syncon	389
Thermal	162
Total	1,485

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	49
TJGS	205
Total TNB	254
CBPS	51
KLPP	95
NPRI	152
PGLA	90
PLPS	81
SGB3	51
SGRI	83
SKSP	49
YPKA	66
Total IPP	718
Total Gas	972
Total Gas Required	972

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	15302	14549	14000	13496	13231	12974	13128	13254	13633	15117	16133	16670	16585	16246	16929	17414	17320	16932	15895	15691	16807	16710	16356	15975

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, August 26, 2019 7:51:28 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	689	697	689	693	693	692	693	695	695	692	694	693	693	695	693	691	695	693	690	693	695	692	695	692	693	694	692																						
JMAH	U002	695	689	696	693	693	694	694	694	693	696	692	694	696	692	694	693	693	695	692	693	694	693	695	696	696	694	693	695	692	696																			
JMJG	U001	683	668	673	674	679	671	669	673	672	672	675	672	669	671	669	655	676	668	672	665	678	668	668	681	666	673	671	673	671	673	672	667	673	677	677	680													
JMJG	U003	668	670	667	667	667	666	669	666	668	666	668	666	667	662	669	666	666	666	668	666	668	666	666	666	666	666	666	666	666	666	666	666	667	671	667	671													
JMJG	U004	975	975	977	977	900	829	827	824	829	826	827	827	829	827	828	825	828	976	981	980	979	981	979	979	978	978	977	979	978	978	978	978	979	978	978	979													
JMJG	U005	979	977	977	978	850	823	828	819	817	820	820	820	816	821	821	823	823	891	982	977	977	979	978	977	975	977	976	973	976	977	977	981	980	978	977	976	976	976	977										
PKLG	U003	285	283	283	282	281	280	279	280	280	283	249	206	271	282	282	281	282	282	283	282	283	280	283	284	284	285	282	281	283	280	281	283	282	282	279	282	281	281	282	281	281	280	277	277	279	280	283		
PKLG	U005	468	470	470	470	469	468	468	468	470	476	440	409	426	470	470	468	468	471	473	467	470	470	473	470	468	470	470	471	471	471	470	470	468	470	470	469	470	470	470	449	470	468	468	468					
PKLG	U006	470	469	466	469	468	465	469	471	468	465	466	464	471	466	466	470	466	469	468	472	472	471	470	469	468	469	466	466	468	466	466	468	466	468	468	470	465	468	468	470	465	465	465	468	470	468	468		
TBIN	U001	690	690	690	693	689	684	690	687	691	689	686	690	689	689	690	689	689	689	691	687	690	689	689	686	690	687	688	689	689	691	689	688	689	689	688	690	689	689	689	689	689	689	689	687	687	689	690	687	
TBIN	U002	692	691	693	693	696	690	692	696	692	692	690	693	691	690	694	689	689	692	691	691	694	693	692	691	693	692	690	691	690	691	695	692	691	691	691	692	694	693	694	690	693	692	693	692	691	692	693	691	
TBIN	U003	691	691	689	689	687	687	690	691	692	690	690	690	690	691	689	690	689	689	689	688	689	689	687	688	688	687	690	690	691	691	691	690	689	688	689	691	688	689	690	689	689	689	690	690	690	689	689		
TBIN	U004	983	981	983	983	906	825	823	823	823	823	823	823	823	823	823	823	823	823	980	981	980	983	979	981	982	984	983	984	983	982	983	982	983	982	983	978	981	983	982	982	982	984	982	982	984	982			
Total ST-Coal		8968	8951	8953	8961	8678	8474	8491	8487	8492	8488	8421	8350	8428	8483	8485	8480	8465	8713	8802	8944	8959	8960	8952	8947	8961	8946	8949	8955	8951	8945	8953	8961	8954	8958	8940	8956	8952	8953	8963	8955	8957	8951	8950	8940	8944	8941	8959	8963	
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	362	360	360	362	360	362	348	215	212	219	218	218	219	221	215	220	322	351	359	359	358	358	360	355	359	350	362	359	358	359	361	361	360	357	358	349	357	355	362	363	356	360	361	360	360	361	362		
GLGR	GT01	69	69	69	68	69	70	68	69	69	69	71	71	68	69	69	69	83	83	86	86	87	90	88	86	85	85	90	90	98	98	95	99	99	87	66	69	69	69	69	68	68	68	67	68	68	71	68		
GLGR	GT02	69	68	69	69	69	69	69	69	69	69	70	70	69	68	84	85	86	87	85	90	89	86	85	86	91	91	98	98	96	101	100	86	67	69	69	69	69	69	69	69	69	69	69	69	69	69	69		
GLGR	ST1C	69	70	70	69	70	69	69	70	70	70	69	68	69	69	72	81	80	84	82	83	82	80	80	81	83	82	86	87	85	88	88	82	71	70	70	69	70	68	69	68	69	69	69	69	69	69	69	69	
KLPP	GT13	122	130	107	71	72	71	65	68	70	73	73	72	74	73	70	73	102	125	119	125	130	133	138	119	119	109	134	132	140	140	139	141	143	143	144	117	108	105	108	138	140	140	140	140	131	133	133	135	134
KLPP	GT14	131	82	0	0	0	0	0	0	0	0	0	0	0	0	0	40	141	129	133	141	143	150	132	131	123	145	145	153	150	152	153	151	151	129	116	116	118	146	144	144	144	137	141	144	144	140			
KLPP	GT15	131	147	119	107	88	84	78	82	82	82	82	85	85	85	82	82	83	110	140	127	131	140	145	145	133	130	123	142	142	146	144	146	145	145	144	129	118	118	118	146	147	147	147	138	145	145	144		
KLPP	ST17	196	192	119	106	90	90	92	90	86	90	89	90	90	94	90	90	99	122	196	204	204	204	208	208	200	200	186	196	200	200	202	202	203	204	204	200	196	187	184	184	200	202	202	201	196	200	200	199	
NPRI	BLK1	505	506	505	506	506	505	485	407	409	410	409	416	410	418	416	413	466	499	489	502	506	504	505	505	499	498	493	505	506	504	505	506	503	505	505	502	491	500	500	505	506	506	503	500	500	504	506	506	
NPRI	BLK2	507	508	506	507	507	505	487	406	407	411	408	416	412	416	418	413	464	500	491	506	508	507	507	507	501	502	493	508	506	508	507	507	505	507	506	506	494	503	502	507	507	509	506	501	503	507	508	508	
PCGP	PGRG	604	605	601	607	605	603	565	583	495	425	316	254	250	395	397	394	603	588	569	596	603	602	605	597	586	587	578	602	601	603	602	603	598	603	603	604	573	593	596	600	602	602	602	596	599	600	605	603	
PGLA	GT11	178	7	0	0	0	0	0	0	0	0	0	0	0	0	0	100	130	140	231	215	215	215	215	213	211	214	210	212	210	215	214	215	215	213	213	190	166	165	212	212	208	209	184	200	211	201	209		
PGLA	GT12	183	183	228	222	157	158	149	153	154	154	158	155	162	157	155	178	175	175	235	220	220	218	218	218	219	216	216	220	220	220	220	219	194	170	170	218	215	213	216	187	205	216	207	216					
PGLA	ST10	155	97	113	113	91	90	88	90	88	89	90	90	90	92	89	89	95	87	179	255	241	241	241	241	239	239	241	239	239	241	242	242	241	242	242	241	234	205	207	235	236	236	233	223	235	237	235	232	
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	61	144	144	145	124	134	114	112	114	131	132	139	136	139	138	137	123	120	112	112	112	134	131	127	131	113	116	131	121	116		
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	130	129	138	117	117	117	117	138	136	145	141	145	143	142	126	126	117	115	115	138	136	130	135	116	120	136	125	120		
PLPS	GT13	128	125	125	125	124	124	124	125	125	124	124	123	124	124	125	124	123	123	125	127	121	129	111	109	110	130	128	136	133	136	134																		

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	ST2C	259	259	259	259	211	211	211	211	211	211	211	211	211	211	248	257	257	257	257	257	257	257	257	255	255
YPKA	GT11	120	121	120	66	65	65	66	66	66	66	66	66	66	66	80	128	128	129	127	127	127	126	65	64	65
YPKA	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114	135	134	136	135	133	135	65	65	65
YPKA	ST10	51	52	51	33	33	34	34	34	33	33	33	33	33	33	34	38	103	126	127	128	128	128	81	81	81
YPKA	GT21	125	125	125	66	66	66	66	66	65	66	66	66	67	66	66	66	122	119	122	124	123	122	121	65	64
YPKA	ST20	57	58	57	38	38	38	39	39	38	38	38	38	38	38	38	55	56	57	58	59	58	58	39	39	46
Total CCGT-Gas		6099	5693	5341	5085	4728	4653	4472	4252	4170	4107	4003	4128	4179	4369	4192	4079	4633	5291	5895	6460	6683	6991	7237	7292	7066
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
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
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
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
CEND	HY03	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-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
KNRG	HY02	25	26	25	25	26	26	24	25	25	25	25	25	25	25	25	24	25	25	25	25	25	25	25	25	25
KNYR	HY01	0	0	0	0	96	96	96	96	96	95	95	96	96	96	96	96	0	0	0	0	0	0	96	96	96
KNYR	HY02	0	0	0	0	95	94	94	94	94	94	94	94	94	94	94	0	0	0	0	0	0	95	94	94	
KNYR	HY03	-1	-1	-1	-1	96	96	96	96	96	96	96	96	96	96	96	97	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNYR	HY04	62	64	61	61	97	97	96	97	96	95	97	97	97	97	97	98	56	59	59	58	58	57	55	57	57
LPJA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	26	20	20	16	16	16	20	20
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	2	2
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
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
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
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	16	16	16	16	16	16
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	16	16	16	16	16	16
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	16	16	16	16	16	16
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	-1
TMGR	HY04	32	32	32	32	32	32	27	30	31	31	31	32	32	32	31	32	31	28	32	32	32	31	30	-1	-1
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	92	90	-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
UPIA	HY01	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
Total Hydro		164	167	163	163	488	487	479	484	484	483	482	486	486	486	485	486	485	293	158	253	283	203	226	226	220
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
BDLS	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
CHLS	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
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
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
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
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
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
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
Total 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
PCUF	CUFK	33	31	31	30	30	31	30	31	31	30	31	31	29	30	30	30	31	30	31	29	29	29	28	26	26
PCUF	CUFK	33	31	32	33	31	33	31	33	31	32	31	31	28	30	32	33	33	30	30	31	30	31	30	29	30
Total Co-Gen		66	62	63	63	61	64	61	64	62	62	62	62	57	60	62	63	63	60	61	61	61	59	60	59	57
Total Gen		15297	14873	14520	14272	13955	13678	13503	13287	13208	13140	12968	13026	13150	13398	13225	13111	13662	14581	15116	15698	16072	16431	16595	16720	16512

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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