

Daily System Generation Summary on Thursday

Thursday, April 18, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,391 MW
Distillate	0 MW
Total TNB	2,391 MW
Total IPP	16,062 MW
Total Co-Gen	0 MW
Total System	21,532 MW

Generation Mix

Type	MWh	Percentage
Hydro	5,868	1.50 %
Gas	47,873	12.22 %
Total TNB	53,741	13.71 %
ST-Coal	213,666	54.53 %
LSS	1,422	0.36 %
Gas	120,879	30.85 %
Total IPP	335,967	85.74 %
Co-Gen	1,785	0.46 %
Total Co-Gen	1,785	0.46 %
Total Generation	391,493	99.91 %
PLTG	342	0.09 %
HVDC	-694	-0.18 %
Interconnection	-352	-0.09 %
Net Energy	391,845	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:	14:30:00 Hour
Total Set On Bus	20,124 MW
TNB Generation	2,944 MW
IPP Generation	15,530 MW
Spinning Reserve	1,575 MW
Maximum Demand	18,566 MW
Net Energy	391,845 MWH
Load Factor	87.94 %

Fuel Cost

Total Cost:	75,970,566.20 RM
Cost per Unit	19.70 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	580
Hydro	277
Syncon	813
Thermal	165
Total	1,835

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	51
PAKA	37
PGPS	42
SRDG	20
TJGS	210
Total TNB	359
CBPS	53
KLPP	95
MPSS	45
NPRI	127
PGLA	108
PKLG	7
PLPS	90
PTEK	21
SGRI	141
SKSP	48
YPKA	80
Total IPP	815
Total Gas	1,174

Total Gas Required 1,174

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	16303	15416	14851	14446	14019	13809	14066	13753	14122	16014	17098	17715	17713	17420	18215	18539	18330	17812	16590	16340	17436	17435	16957	16583

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, April 24, 2019 10:31:21 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	693	694	693	695	693	693	695	692	691	693	693	692	695	693	694	691	690	697	694	692	694	692	691	690
JMAH	U002	693	695	693	695	696	694	695	695	693	694	695	695	698	694	695	692	695	693	697	693	694	697	694	693	694
JMHE	U001	301	303	302	300	301	301	300	301	299	303	303	303	302	299	301	302	302	301	301	515	708	705	706	705	689
JMJG	U001	671	672	669	672	669	671	671	672	671	671	672	669	666	672	671	673	670	671	672	679	668	673	673	678	672
JMJG	U002	666	672	671	672	673	672	671	674	671	671	672	672	673	673	674	673	672	676	669	672	672	674	674	673	672
JMJG	U003	667	666	669	664	667	666	666	660	664	671	667	666	667	666	666	664	666	668	668	668	664	664	668	662	669
JMJG	U004	982	983	985	982	906	855	841	842	843	844	844	830	796	796	796	796	796	795	795	794	794	794	796	795	796
JMJG	U005	981	978	980	981	864	849	850	851	851	853	848	849	851	850	850	853	862	982	978	977	976	977	977	975	976
PKLG	U003	284	284	285	282	280	281	281	283	281	281	284	282	282	284	284	283	283	282	283	281	282	282	281	276	281
PKLG	U004	281	279	279	279	277	277	279	277	273	278	278	277	279	278	274	280	279	279	279	280	279	279	280	278	281
PKLG	U005	470	470	470	471	470	470	472	469	470	470	462	470	467	468	471	471	470	470	471	470	468	469	470	469	470
PKLG	U006	162	158	160	161	160	158	160	159	160	189	187	250	219	238	246	239	235	264	280	0	0	0	0	0	0
TBIN	U001	689	691	690	692	692	687	688	689	688	692	690	690	692	689	690	690	689	689	685	693	692	689	689	691	689
TBIN	U002	693	692	691	692	691	693	692	694	694	692	694	691	690	692	693	692	690	690	691	691	691	692	693	693	691
TBIN	U003	692	691	692	691	693	690	691	692	692	691	692	693	690	692	693	691	691	691	691	690	691	692	692	687	688
Total ST-Coal		8925	8927	8930	8927	8734	8657	8650	8653	8642	8691	8681	8730	8664	8686	8696	8693	8689	8836	8865	8794	8979	8973	8969	8982	8959
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
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
CBPS	BLK2	357	356	359	362	365	360	363	363	362	362	219	224	225	223	219	216	353	361	361	366	362	357	363	357	358
GLGR	GT01	66	67	68	67	67	68	67	67	65	68	67	68	68	66	68	66	67	66	94	100	101	99	100	101	100
GLGR	GT02	69	69	69	69	69	69	69	69	69	69	69	69	68	69	69	69	98	103	104	103	103	103	103	103	103
GLGR	ST1C	70	71	70	71	71	70	71	69	70	71	70	70	71	70	71	70	84	91	92	91	91	92	92	92	91
KLPP	GT13	143	142	113	10	0	0	0	0	0	0	0	0	0	28	139	116	134	138	127	140	142	129	139	123	
KLPP	GT14	149	148	132	127	111	112	77	77	78	80	76	76	77	82	77	79	79	125	123	146	149	136	149	149	138
KLPP	GT15	146	142	128	121	112	112	70	71	70	71	70	71	73	76	69	74	79	120	123	139	146	134	142	143	
KLPP	ST17	208	199	187	158	117	116	93	84	84	83	83	83	83	86	77	89	89	187	184	192	200	200	200	196	192
MPSS	GT01	109	84	88	86	86	88	87	87	86	88	87	87	88	89	86	86	85	87	85	90	86	87	110	104	
MPSS	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	40	80	105	105	105	104	
MPSS	ST01	49	37	35	36	35	35	36	35	35	35	36	35	35	36	35	35	36	35	37	40	38	111	113	113	
NPRI	BLK1	487	481	491	491	491	491	491	491	365	335	376	418	500	526	367	332	422	502	514	506	505	502	504	501	503
NPRI	BLK2	496	492	502	499	499	501	502	502	362	329	382	416	500	527	369	329	404	502	505	517	508	507	505	506	500
PAKA	GT4A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PAKA	GT4B	83	82	83	83	83	84	83	83	84	84	84	84	83	83	84	84	83	82	81	81	81	81	81	80	80
PAKA	ST4C	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
PCGP	PGRG	411	284	212	374	602	603	601	601	602	604	603	599	603	602	600	599	402	511	599	598	615	602	601	599	601
PGLA	GT11	235	205	186	169	168	170	204	173	171	169	170	172	169	170	167	169	167	169	198	221	216	218	211	212	198
PGLA	GT12	235	207	189	172	171	172	208	175	174	173	174	173	170	173	169	173	200	223	219	221	213	213	200	213	187
PGLA	ST10	253	237	221	204	207	209	218	205	205	205	205	204	205	205	203	205	207	230	241	239	236	241	239	229	241
PGPS	GT3A	87	88	87	87	88	70	71	71	71	70	70	71	71	71	70	70	71	71	72	70	95	95	94	94	94
PGPS	GT3B	88	88	88	88	88	0	0	0	0	0	0	0	0	0	0	0	0	79	94	94	94	95	94	94	95
PGPS	ST3C	83	83	83	83	83	31	30	30	30	30	30	29	29	29	29	29	30	30	30	85	92	92	92	93	92
PLPS	GT11	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	131	132	131	120	130	127	117	118	
PLPS	GT12	117	148	120	120	64	63	64	63	63	65	65	63	64	63	60	64	61	139	138	142	136	124	135	132	
PLPS	GT13	110	138	109	108	65	65	66	66	65	66	65	64	65	65	63	65	62	127	127	134	128	115	127	123	
PLPS	ST18	196	148	133	133	93	91	90	91	91	91	91	91	89	91	91	91	91	142	199	213	211	202	209	208	
SGRI	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	136	111	112	111	
SGRI	GT12	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 Thursday

[illegible]

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		
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		
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		
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	35	34	35	35	35	35	35	36	36	36	36	35	35	87	37	37	37	37	37	37	37	36	37	35		
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	92	88	89	177	-1	178	93	-1	91	-1	-1	-1	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	91	92	49	-1	-1	-1	-1	-1	-1	-1	-1	
UPIA	HY01	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
Total Hydro		171	176	173	162	161	183	163	162	162	164	163	163	163	168	225	471	471	514	536	225	662	397	294	476	387	
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	1	3	6	11	15	18	21	14	25	27	28	29	8
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	9	14	19	24	28	31	29	36	10	25	12
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	11	17	24	28	19	44	16	32	39	50	20	22
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	16	22	24	23	22	34	22	45	38	41
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	14	21	28	36	40	47	18	55	26	56	36
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	9	16	21	27	31	36	40	40	42	44	31
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	5	26	59	95	129	157	162	194	162	212	190	242	148
PCUF	CUFG	32	31	32	32	30	32	31	31	30	32	31	31	31	32	30	30	31	31	30	32	30	30	31	31	32	31
PCUF	CUFK	43	43	44	43	41	44	44	43	39	44	44	43	44	42	43	43	44	42	43	43	44	44	44	44	43	45
Total Co-Gen		75	74	76	75	71	76	75	74	69	76	75	74	74	76	72	73	74	75	72	75	73	72	73	73	75	75
Total Gen		16297	15805	15359	15193	14850	14648	14440	14225	14059	13941	13778	13910	14018	14112	13742	13504	14121	15343	15970	16600	17068	17438	17708	17804	17726	17489
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
TIE-HVDC		-30	-28	-28	-28	-28	-29	-29	-29	-29	-29	-28	-28	-28	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29
TIE-PLTG		24	31	-29	30	28	18	23	3	69	-14	-2	11	-20	-20	18	-26	28	36	-14	-29	-2	-6	22	19	43	
Interconnection		-6	3	-57	2	-1	-11	-6	-26	40	-42	-31	-17	-48	-48	-11	-55	-1	6	-44	-57	-30	-36	-7	-10	13	
System Total		16303	15802	15416	15191	14851	14659	14446	14251	14019	13983	13809	13927	14066	14160	13753	13559	14122	15337	16014	16657	17098	17474	17715	17814	17713	17476
SRev ST-Coal		158	156	153	156	310	324	315	314	326	276	315	143	232	207	200	120	124	127	98	369	124	180	184	171	194	163
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	0	5
SRev CCGT-Gas		866	671	757	1048	1218	1233	1413	1629	1779	1955	2106	2022	1848	1781	2155	2397	1822	1069	723	404	551	578	384	477	666	632
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
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
SRev Co-Gen		-3	-2	-4	-3	1	-4	-3	-2	3	-4	-3	-2	-2	-4	-2	-4	0	-1	-2	-3	0	-3	-1	0	-1	-1
Syncon		1115	1115	1115	1115	1115	964	1115	1115	1115	1115	1115	1115	1115	989	989	989	989	989	989	989	989	989	989	989	989	989
Hydro		141	136	139	139	140	269	138	139	139	137	138	138	138	136	140	140	141	138	139	134	177	506	405	362	240	177
S.Reserve Total		2277	2076	2160	2466	2784	2786	2978	3195	3362	3479	3671	3416	3331	3109	3482	3642	3076	2322	1947	1893	1841	1725	1587	1625	1714	1960