

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,516 MW
Distillate	0 MW
Total TNB	2,516 MW
Total IPP	16,848 MW
Total Co-Gen	72 MW
Total System	22,515 MW

Generation Mix

Type	MWh	Percentage
Hydro	8,822	2.28 %
Gas	41,940	10.82 %
Total TNB	50,762	13.09 %
ST-Coal	216,391	55.81 %
LSS	1,603	0.41 %
Gas	117,350	30.27 %
Total IPP	335,344	86.50 %
Co-Gen	1,706	0.44 %
Total Co-Gen	1,706	0.44 %
Total Generation	387,812	100.03 %
PLTG	812	0.21 %
HVDC	-699	-0.18 %
Interconnection	113	0.03 %
Net Energy	387,699	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:	16:00:00 Hour
Total Set On Bus	20,106 MW
TNB Generation	2,901 MW
IPP Generation	15,493 MW
Spinning Reserve	1,639 MW
Maximum Demand	18,415 MW
Net Energy	387,699 MWH
Load Factor	87.72 %

Fuel Cost

Total Cost:	73,110,260.20 RM
Cost per Unit	19.29 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	579
Hydro	309
Syncon	875
Thermal	175
Total	1,938

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	51
PAKA	19
PGPS	36
SRDG	3
TJGS	202
Total TNB	312
CBPS	50
KLPP	94
MPSS	43
NPRI	149
PGLA	109
PLPS	89
PTEK	19
SGRI	112
SKSP	37
YPKA	75
Total IPP	777
Total Gas	1,089
Total Gas Required	1,089

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	15473	14726	14233	13815	13593	13426	13500	13434	13815	15745	16679	17456	17400	17161	17860	18262	18415	18110	16776	16726	17953	17919	17402	16974

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, April 24, 2019 10:30:36 AM

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

Daily MW Generation on Wednesday

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	691	695	691	693	691	694	693	692	695	693	691	693	689	693	692	691	692	692	694	694	691	692	691	693	692	694	693
JMAH	U002	692	698	695	696	694	693	691	695	694	695	691	692	695	694	694	693	693	692	693	693	692	696	692	693	694	696	694
JMHE	U001	655	519	517	519	517	517	516	518	517	517	517	517	517	518	516	517	516	517	550	549	668	700	699	680	697	696	701
JMJG	U001	664	668	666	674	672	671	673	672	671	671	670	670	673	674	666	674	670	668	671	671	671	670	668	673	671	672	671
JMJG	U002	674	672	673	672	671	674	672	671	673	671	673	671	677	671	672	672	673	671	674	672	672	670	671	672	671	671	672
JMJG	U003	666	666	667	666	667	667	663	666	666	666	673	667	664	667	666	668	668	667	667	666	666	666	665	666	666	666	667
JMJG	U004	985	987	951	865	848	849	846	846	845	845	844	845	848	846	845	846	845	898	972	980	982	983	983	983	983	982	982
JMJG	U005	980	979	924	838	842	844	842	839	840	843	841	842	842	843	841	844	842	908	964	980	985	980	983	987	980	978	979
PKLG	U003	257	256	254	253	256	254	253	255	254	256	287	279	283	282	284	284	284	281	286	281	283	284	281	282	283	282	284
PKLG	U004	280	281	281	281	279	280	279	279	279	280	279	280	283	288	282	281	281	280	281	280	281	280	282	281	279	280	281
PKLG	U005	470	469	469	470	469	471	470	467	468	470	471	471	472	470	472	470	472	473	470	470	471	470	467	468	469	472	470
PKLG	U006	0	0	0	0	0	0	0	0	0	20	58	76	95	94	95	95	95	142	149	0	0	0	0	0	0	0	0
TBIN	U001	687	690	689	689	691	689	690	689	689	689	689	691	687	688	691	687	688	689	687	689	690	691	691	688	689	690	689
TBIN	U002	690	691	691	690	691	691	691	692	690	693	691	690	690	691	691	690	690	691	692	692	691	693	691	692	692	692	692
TBIN	U003	691	691	691	690	691	690	690	689	690	692	693	692	690	692	692	690	690	691	691	692	692	691	691	691	692	692	692
Total ST-Coal		9082	8962	8859	8696	8679	8684	8669	8670	8671	8702	8766	8784	8799	8805	8793	8814	8796	8961	9139	9012	9135	9162	9159	9147	9155	9154	9147
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
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
CBPS	BLK2	347	362	349	360	362	358	312	236	216	217	218	215	215	220	220	222	219	358	363	362	362	360	361	188	228	359	351
GLGR	GT01	67	69	68	68	67	69	66	67	69	69	69	68	68	68	66	69	69	67	78	87	87	95	97	99	99	64	65
GLGR	GT02	70	69	70	69	70	70	70	70	70	70	70	70	69	69	70	70	69	70	81	88	89	97	98	102	100	68	69
GLGR	ST1C	70	70	70	70	70	71	70	70	70	70	70	70	71	70	70	70	70	70	73	82	82	86	93	89	89	71	70
KLPP	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	118	115	115	144	143	144	110	127	141	143
KLPP	GT14	111	118	111	120	80	86	82	83	82	84	81	82	83	81	81	86	131	128	124	124	150	150	151	129	139	121	129
KLPP	GT15	111	114	111	119	75	78	75	76	76	77	75	76	77	79	75	76	82	124	128	123	123	147	147	147	127	139	119
KLPP	ST17	113	117	113	117	89	89	89	87	87	87	87	87	87	87	87	87	89	93	170	190	186	186	198	198	186	194	182
MPSS	GT01	84	89	88	94	92	92	90	92	92	93	92	91	92	90	88	91	92	87	89	90	88	89	89	107	72	68	70
MPSS	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	54	107	75	71	
MPSS	ST01	33	35	32	34	34	35	34	35	34	34	34	34	34	33	33	34	32	34	37	37	38	40	41	92	83	66	66
NPRI	BLK1	488	510	495	514	511	502	460	486	468	338	337	352	386	453	325	351	458	476	491	493	491	493	493	493	481	492	475
NPRI	BLK2	490	513	495	515	512	502	463	487	466	334	338	350	382	447	326	352	482	487	500	500	499	501	501	500	490	502	482
PAKA	GT4A	84	84	84	84	85	84	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PAKA	GT4B	74	74	74	74	74	74	35	0	0	0	0	0	0	0	0	0	0	0	69	69	69	70	69	69	69	69	69
PAKA	ST4C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PCGP	PGRG	604	604	604	604	604	604	604	604	604	604	604	604	501	603	603	603	603	582	602	602	601	604	603	603	594	603	591
PGLA	GT11	164	167	160	177	168	167	168	168	168	167	167	168	169	167	168	173	171	174	165	215	199	218	218	218	214	217	212
PGLA	GT12	166	171	164	178	170	170	172	170	170	170	171	172	170	168	176	174	170	167	219	200	221	221	220	216	221	214	219
PGLA	ST10	199	204	200	205	204	206	206	203	205	204	203	204	204	204	202	207	207	207	209	227	230	243	243	243	242	244	240
PGPS	GT3A	70	71	70	72	71	72	71	72	72	72	71	72	72	72	72	72	71	71	71	71	71	72	72	93	94	85	93
PGPS	GT3B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	74	93	88
PGPS	ST3C	31	31	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	31	31	43	43	38	83	86	86
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	123	119	118	122	134	135	117	133
PLPS	GT12	58	63	58	64	63	63	64	63	65	64	64	65	64	64	63	65	64	138	143	119	117	122	133	135	116	132	115
PLPS	GT13	103	108	103	107	65	65	65	64	64	64	65	65	65	65	65	65	64	65	127	132	109	104	110	123	123	104	121
PLPS	ST18	107	110	107	110	91	91	90	91	90	90	90	90	90	90	91	90	90	140	198	199	197	207	207	210	198	208	197
SGRI	GT13	107	113	106	113	109	110	110	110	110	109	110	110	110	107	107	110	102	110	132	133	131	131	131	107	103	105	103
SGRI	ST14	65	67	63	68	68	65	64	65	65	68	67	67	67	67	64	64	65	67	67	64	73	73	73	61	64	66	60

Daily MW Generation on Wednesday

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																								
SGRI	GT21	104	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
SGRI	GT22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
SGRI	GT23	105	105	102	109	106	109	109	107	107	107	109	107	108	109	102	109	143	143	139	121	130	106	131	104	108																							
SGRI	ST24	123	91	58	64	62	60	60	58	59	62	59	60	60	59	59	60	58	62	58	70	122	149	200	212	199																							
SKSP	BLK1	218	223	217	7	0	0	0	0	0	0	0	0	9	200	345	344	344	343	328	328	314	270	281	297	321																							
TJGS	GT1A	219	143	136	154	211	153	141	143	142	140	143	143	146	141	145	145	136	221	223	225	226	224	228	225	214																							
TJGS	GT1B	209	139	131	144	202	143	132	132	131	135	134	135	139	134	135	135	141	128	212	218	215	216	216	214	219																							
TJGS	ST1C	246	179	168	175	215	186	180	183	179	179	179	179	179	179	179	173	236	243	243	247	247	246	246	246	247																							
TJGS	GT2A	209	211	165	148	185	147	147	148	146	146	146	146	148	147	147	148	215	215	212	212	212	213	220	213	213																							
TJGS	GT2B	208	208	165	146	182	145	146	146	146	146	145	145	144	144	145	145	146	213	210	212	210	212	211	211	211																							
TJGS	ST2C	255	255	238	211	235	210	210	210	210	210	210	210	210	210	258	258	258	258	258	264	259	259	259	259	259																							
YPKA	GT11	63	63	63	63	0	0	0	0	0	0	0	0	0	0	0	0	14	128	127	129	129	128	129	98	122																							
YPKA	GT12	62	62	63	62	62	62	62	62	62	62	62	62	65	65	65	66	129	64	73	134	135	134	133	132	99																							
YPKA	ST10	75	75	74	71	29	28	28	29	28	28	28	29	28	30	30	31	54	29	98	125	127	127	126	127	126																							
YPKA	GT21	65	65	65	66	65	65	65	65	65	65	65	65	65	65	65	124	67	125	124	125	125	125	125	125	125																							
YPKA	ST20	38	38	37	38	37	38	38	37	37	37	37	37	37	37	37	61	39	60	61	62	62	62	60	60	60																							
Total CCGT-Gas		6015	5812	5507	5424	5355	5099	4890	4749	4685	4433	4429	4459	4427	4658	4396	4477	4742	5735	6288	6880	7079	7346	7567	7433	7425	7403	7248	7406	7569	7819	7985	7985	8002	7899	7899	7443	7256	6915	7208	7943	7879	7793	7839	7950	7718	7745	7593	7476
PTEK	GT1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																							
PTEK	GT2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																							
PTEK	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	0																							
SRDG	GT04	0	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 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	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	HY01	62	63	63	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1																							
HTRG	HY02	63	-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	23	24	23	25	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24																							
KNYR	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																							
KNYR	HY02	54	59	54	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																							
KNYR	HY03	60	60	60	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																							
KNYR	HY04	53	58	53	59	58	58	59	59	58	59	58	59	59	60	57	58	56	59	58	58	58	61	100	97	98																							
LPIA	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																							
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	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	3	3	3	3	3	3	3	3	3	3	3																							
PGAU	HY01	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	9	22	22	22	22	-1	-1	-1	-1																							
PGAU	HY02	-1	-1	-1	-1	-1	-1	21	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1																							
PGAU	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																							
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	0	0	0	0	0	0	0	0																							
SYPS	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																							
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	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	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	-1																							
TMGR	HY02	30	36	32	36	36	36	36	36	36	36	36	36	36	36	36	35	36	36	36	36	33	36	31	35	35	36																						

Daily MW Generation on Wednesday

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	
UJLI	HY01	0	0	0	0	0	0	0	0	0	0	0	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
UPIA	HY01	6	6	4	4	4	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
Total Hydro		390	344	327	281	180	159	184	183	161	162	161	161	161	162	159	161	153	161	170	264	287	468	631	520	428
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	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	9	14	14	17	18	17	24	18
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	9	17	25	26	28	27	17	23
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	12	26	35	37	38	38	41	37	34
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	18	25	25	30	41	38	35	37
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	11	17	21	36	41	43	51	54	58
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	12	13	16	18	24	28	41	38
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	23	47	77	116	151	169	192	199	212	211
PCUF	CUFG	15	14	14	15	20	20	27	26	21	25	23	35	31	31	31	32	32	31	31	31	30	31	31	32	32
PCUF	CUFK	44	40	44	43	44	43	42	43	45	44	43	43	42	43	42	43	43	43	43	44	41	43	43	44	41
Total Co-Gen		59	54	58	58	64	63	69	69	66	69	66	78	73	74	73	73	75	74	73	77	74	73	73	74	74
Total Gen		15546	15172	14751	14459	14278	14005	13812	13671	13583	13366	13422	13482	13460	13698	13424	13528	13797	14970	15738	16255	16703	17037	17459	17484	17385
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
TIE-HVDC		-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-28	-28	-29	-29	-29	-28	-29	-30	-30	-30	-30	-29	-29	-29	-30
TIE-PLTG		102	83	54	-17	75	21	26	-21	20	11	26	6	-12	7	19	22	11	81	21	33	54	-6	33	16	
Interconnection		73	53	25	-46	45	-8	-3	-50	-10	-19	-4	-22	-40	-22	-10	-7	-18	53	-7	4	24	-35	3	-14	
System Total		15473	15119	14726	14505	14233	14013	13815	13721	13593	13385	13426	13504	13500	13720	13434	13535	13815	14917	15745	16251	16679	17072	17456	17498	
SRev ST-Coal		297	217	220	276	281	279	289	286	285	275	283	285	295	288	298	69	87	69	174	151	128	151	154	316	
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		1469	1672	1685	1768	1295	1551	1760	1743	1807	2059	2063	2033	2065	1834	2096	2015	1750	1269	861	665	708	558	493	552	
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 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	
SRev Co-Gen		13	18	14	14	8	9	3	3	6	3	6	-6	-1	-2	-1	-1	-3	-2	-1	-5	-2	-1	-1	-2	
Syncon		676	802	802	928	777	928	777	777	928	928	928	928	1115	1115	1115	1115	1115	964	813	813	525	676	1014	1014	
Hydro		364	284	301	221	273	143	269	270	141	140	141	141	140	140	139	142	140	148	140	282	439	566	673	509	
S.Reserve Total		2819	2993	3022	3207	2634	2910	3098	3079	3167	3405	3421	3381	3614	3375	3647	3340	3089	2599	2289	2057	2086	2087	1844	2051	