

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,868 MW
Distillate	0 MW
Total TNB	1,868 MW
Total IPP	15,831 MW
Total Co-Gen	0 MW
Total System	20,623 MW

Generation Mix

Type	MWh	Percentage
Hydro	6,745	1.83 %
Gas	33,005	8.93 %
Total TNB	39,750	10.76 %
ST-Coal	223,195	60.40 %
LSS	1,730	0.47 %
Gas	102,412	27.71 %
Total IPP	327,337	88.58 %
Co-Gen	1,391	0.38 %
Total Co-Gen	1,391	0.38 %
Total Generation	368,478	99.71 %
PLTG	-356	-0.10 %
HVDC	-698	-0.19 %
Interconnection	-1,054	-0.29 %
Net Energy	369,532	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	19,098 MW
TNB Generation	1,966 MW
IPP Generation	15,302 MW
Spinning Reserve	1,761 MW
Maximum Demand	17,380 MW
Net Energy	369,532 MWH
Load Factor	88.59 %

Fuel Cost

Total Cost:	67,875,002.17 RM
Cost per Unit	18.42 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	677
Hydro	269
Syncon	674
Thermal	213
Total	1,833

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	27
TJGS	201
Total TNB	227
CBPS	0
KLPP	47
MPSS	27
NPRI	140
PGLA	102
PLPS	73
PTEK	2
SGRI	142
SKSP	44
YPKA	63
Total IPP	640
Total Gas	868

Total Gas Required 868

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	15034	14302	13813	13379	13110	12975	13172	13259	13614	15282	16092	16760	16795	16416	17042	17290	17380	16819	15759	15643	16619	16594	16098	15713

Prepared By: -Select Name-

Checked By: -Select Name-

 Printed on: Wednesday, July 31, 2019 3:40:49 PM
 (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	692	691	692	695	692	692	693	696	693	692	687	694	692	694	694	692	691	696	691	694	695	691	695	694	692	693	692																					
JMAH	U002	694	691	695	694	694	694	695	694	695	688	700	694	695	693	693	687	697	694	688	683	685	686	683	689	685	684	682	682	685	683	682	686	682	684	683	685	684	683	683	686	698	697	683	695	695	695		
JMHE	U002	763	761	761	765	764	764	764	764	760	763	761	762	761	762	762	762	760	762	761	1010	1009	1010	1009	1008	1008	1007	1007	1008	1008	1005	1006	1008	1007	1007	1004	1002	1008	1006	990	760	762	760	758	765	760	763	761	
JMJG	U001	671	674	677	670	670	671	670	672	672	673	669	673	666	673	664	668	675	674	666	676	671	662	669	663	662	667	666	660	663	666	663	667	665	666	662	667	665	664	667	663	674	671	668	668	667	675	664	
JMJG	U003	668	669	667	667	668	668	667	668	668	668	668	662	668	667	669	667	668	669	668	671	671	662	666	662	662	662	662	662	663	662	662	665	662	666	665	668	663	662	662	665	666	671	667	667	670	671	669	
JMJG	U004	978	968	852	785	783	785	786	786	785	785	786	786	786	785	785	782	909	981	982	983	982	983	983	982	982	983	983	983	982	983	983	983	982	982	982	982	982	982	983	982	983	983	983	983	983	983	983	
JMJG	U005	974	966	824	781	779	781	782	778	779	779	781	781	779	780	781	782	779	824	948	977	975	975	976	975	977	975	977	975	977	977	976	978	975	976	975	976	965	974	974	975	979	974	976	974	976	980	974	975
PKLG	U003	282	281	289	282	280	283	286	284	279	280	282	281	280	283	282	282	283	282	281	281	279	280	282	281	282	279	279	280	282	281	282	282	280	281	282	282	281	281	279	280	281	281	283	285	283			
PKLG	U005	471	470	470	469	470	470	470	459	378	357	406	405	431	472	470	470	472	470	470	471	470	470	470	470	470	470	470	470	472	471	470	470	472	471	470	471	471	469	470	470	471	473	470	471	471	471	470	469
PKLG	U006	0	0	0	0	0	0	0	0	0	0	18	43	60	84	84	84	88	89	91	88	111	129	144	146	165	168	165	170	174	192	210	208	198	210	211	221	272	306	330	371	435	452	463	462	472	471	468	
TBIN	U001	689	691	689	694	688	690	693	690	691	694	681	693	684	683	714	698	701	697	683	691	687	678	680	681	680	681	679	680	678	680	680	683	680	680	676	683	679	680	680	683	678	691	688	690	690	692	690	687
TBIN	U002	693	702	694	703	690	691	695	692	693	705	692	690	690	689	690	684	695	684	692	687	685	683	681	683	683	682	683	682	684	681	683	682	685	683	680	681	684	682	680	682	682	692	691	690	691	689	695	693
TBIN	U003	690	692	693	688	691	694	691	694	694	690	689	686	690	686	687	692	686	690	685	687	682	679	678	678	678	680	679	679	679	678	678	680	679	679	680	678	680	677	679	680	679	690	690	689	689	689	690	688
TBIN	U004	983	973	884	795	782	782	781	782	781	782	783	781	781	782	781	783	783	818	908	982	984	985	984	982	982	984	981	981	983	982	982	981	982	983	981	980	982	983	985	983	985	982	981	982	981	983	983	981
Total ST-Coal		9248	9229	8887	8688	8651	8665	8673	8659	8568	8559	8582	8599	8652	8710	8758	8742	8754	8948	9221	9345	9568	9550	9588	9593	9588	9620	9616	9605	9611	9616	9632	9662	9659	9645	9649	9649	9655	9714	9748	9759	9574	9675	9708	9698	9726	9738	9708	
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	
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
CBPS	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	6	11	69	0	0	0	0	0	0	0	0	0	0	
GLGR	GT02	95	95	95	95	97	95	95	95	95	95	95	94	95	95	95	95	95	95	95	95	95	95	95	95	94	95	96	94	95	94	95	94	94	94	94	94	95	95	94	95	95	108	95	95	95	96	95	
GLGR	ST1C	40	40	40	40	41	40	38	39	38	40	41	40	39	38	39	38	39	39	39	39	39	39	39	39	39	39	39	40	39	39	39	40	39	39	40	39	40	40	40	39	44	40	40	40	39	40	40	
KLPP	GT13	135	137	109	110	110	110	109	109	109	109	109	110	110	109	109	109	109	109	110	109	109	109	109	109	109	109	110	110	113	113	137	137	139	139	139	139	139	139	113	119	138	138	140	141	141	113	114	109
KLPP	GT15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	61	139	146	146	147	147	151	119	128	149	150	150	153	145	121	121	121	121		
KLPP	ST17	60	56	56	52	52	51	51	60	56	55	55	52	52	56	56	56	60	60	57	52	54	54	53	48	54	54	59	50	46	46	58	117	114	121	121	113	123	119	123	131	128	128	126	126	122	122	118	
MPSS	GT01	86	86	86	86	87	89	87	86	87	88	87	86	87	88	88	87	88	86	85	86	85	87	84	86	85	87	85	86	87	102	103	103	88	90	88	87	88	89	91	91	89	107	87	87	87	88	89	88
MPSS	ST01	37	36	36	36	36	36	36	36	36	36	37	37	37	38	38	37	37	37	37	37	35	35	36	37	36	36	36	38	38	48	49	49	41	41	40	39	40	39	40	40	50	39	39	36	38	38	36	
NPRI	BLK1	502	498	499	503	505	450	418	414	410	416	416	413	418	418	418	418	433	506	498	503	505	509	502	509	502	509	505	509	510	509	511	506	508	509	497	491	499	411	505	506	506	505	502	501	502	497	505	496
NPRI	BLK2	503	502	500	506	507	449	416	413	410	413	416	413	416	416	415	436	509	503	506	507	511	502	512	503	512	506	511	511	511	511	507	510	512	498	493	500	412	507	505	508	506	506	503	507	499	507	498	
PCGP	PGRG	600	596	609	602	599	600	612	402	248	252	252	249	250	251	251	251	602	601	596	598	601	603	597	601	592	602	597	602	603	603	597	598	601	585	577	588	596	602	600	602	603	599	597	599	598	603	589	
PGLA	GT11	166	163	176	173	170	172	167	167	164	168	167	166	168	211	167	168	170	167	163	212	172	214	164	206	176	169	165	216	203	221	222	221	221	217	162	164	164	167	216	214	194	207	205	171	193	194	172	
PGLA	GT12	170	169	181	177	175	177	173	171	169	173	172	169	173	215	173	173	176	171	168	220	176	218	168	212	180	174	170	219	209	227	227	226	226	227	222	167	169	170	174	221	221	199	211	210	178	198	199	177
PGLA	ST10	207	207	214	220	208	205	206	204	209	206	206	209	209	235	210	208	210	207	208	227	215	233	216	233	217	210	207	236	232	248	247	247	247	247	246	202	208	206	209	236	241	235	236	231	207	222	228	215
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	145	131	123	119	115	115	115	133	133	133	133	1																

Daily MW Generation on Wednesday

[illegible]

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		
Total Co-Gen		79	73	70	73	72	72	71	72	70	72	74	71	71	72	71	71	69	72	71	70	70	70	67	68	66	67	67	65	62	67	64	65	69	30	32	32	31	32	33	33	32	33	32	32	32	31	33	32	
Total Gen		14974	14665	14248	14058	13763	13447	13321	13121	13072	12991	12881	12991	13114	13392	13212	13050	13592	14538	15204	15723	15975	16493	16695	16885	16722	16467	16391	16764	17004	17263	17240	17242	17337	17258	16861	16344	15778	15488	15576	16443	16577	16610	16575	16500	16075	15861	15682	15261	
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	0	0
TIE-HVDC		-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-30	-30	-29	-29	-29	-29	-29	-29	-28	-30	-28	-28	-29		
TIE-PLTG		-30	-50	-26	-30	-21	-63	-28	-41	-9	-45	-65	-17	-28	21	-18	-7	8	7	-50	-76	-88	-38	-36	-51	-43	-54	4	15	-8	17	-20	13	-14	3	72	62	49	-19	-38	-18	-14	19	10	18	7	13	-3	-3	
Interconnection		-60	-79	-54	-59	-50	-93	-58	-70	-38	-74	-94	-47	-58	-8	-47	-36	-22	-21	-78	-105	-117	-67	-65	-81	-73	-83	-25	-15	-38	-12	-50	-16	-43	-27	42	33	19	-48	-67	-47	-42	-10	-19	-9	-23	-14	-31	-31	
System Total		15034	14744	14302	14117	13813	13540	13379	13191	13110	13065	12975	13038	13172	13400	13259	13086	13614	14559	15282	15828	16092	16560	16760	16966	16795	16550	16416	16779	17042	17275	17290	17258	17380	17285	16819	16311	15759	15536	15643	16490	16619	16620	16594	16509	16098	15875	15713	15292	
SRev ST-Coal		151	170	365	364	386	373	366	374	425	418	447	511	468	411	363	382	379	394	289	165	172	230	272	217	222	240	244	255	249	244	248	218	221	224	220	217	221	219	212	231	198	188	145	155	172	144	132	162	
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	0	0	0	0	0	43	39	38	79	0	0	0	0	0	0	0	0	0	0	0	0			
SRev CCGT-Gas		881	1165	1238	1232	1489	1692	1825	2010	1965	2040	2176	2079	2009	1792	1726	1853	1348	978	906	757	1001	722	786	543	777	895	968	654	566	447	481	416	514	479	807	1091	1561	1879	1630	771	602	615	632	710	904	1006	911	1089	
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	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	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		-19	-13	-10	-13	-12	-12	-11	-12	-10	-12	-14	-11	-11	-12	-11	-11	-9	-12	-11	-10	-10	-10	-7	-8	-6	-7	-7	-5	-2	-7	-4	-5	-9	0	-2	-2	-1	-2	-3	-3	-2	-3	-2	-2	-2	-1	-3	-2	
Syncon		813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	727	540	540	540	813	813	727	540	540	540	540	540	540	727	813	813	813	813	813	813	813	813	813	813	813	813	813	
Hydro		114	114	113	113	113	115	115	117	118	117	116	117	117	115	114	136	136	125	129	116	115	222	267	315	315	137	141	190	340	356	378	458	457	453	367	163	138	145	134	135	134	190	162	162	164	163	163	158	
S.Reserve Total		1940	2249	2519	2509	2789	2981	3108	3302	3311	3376	3538	3509	3396	3119	3005	3173	2667	2298	2126	1841	2091	1891	1858	1607	1848	2078	2159	1821	1693	1580	1686	1666	1761	1775	2119	2282	2732	3054	2786	1947	1745	1803	1775	1838	2051	2125	2016	2220	