

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,791 MW
Hydro	2,507 MW
Distillate	0 MW
Total TNB	5,298 MW
Total IPP	15,216 MW
Total Co-Gen	57 MW
Total System	21,135 MW

Generation Mix

Type	MWh	Percentage
Gas	38,202	11.13 %
Hydro	26,209	7.64 %
Total TNB	64,411	18.77 %
ST-Coal	185,931	54.18 %
Gas	91,987	26.80 %
Total IPP	277,918	80.98 %
Co-Gen	1,312	0.38 %
Total Co-Gen	1,312	0.38 %
Total Generation	343,641	100.14 %
PLTG	-265	-0.08 %
HVDC	731	0.21 %
Interconnection	466	0.14 %
Net Energy	343,175	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:	14:30:00 Hour
Total Set On Bus	17,479 MW
TNB Generation	3,678 MW
IPP Generation	12,599 MW
Spinning Reserve	1,150 MW
Maximum Demand	16,296 MW
Net Energy	343,175 MWH
Load Factor	87.75 %

Fuel Cost

Total Cost:	59,188,407.63 RM
Cost per Unit	18.65 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	527
Hydro	419
Syncon	316
Thermal	137
Total	1,399

Time	Weather	Temperature
Afternoon	Rainy	32
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	51
PGPS	27
SRDG	5
TJGS	197
Total TNB	279
CBPS	54
KLPP	91
NPRI	158
PGLA	106
PLPS	86
PTEK	3
SGRI	49
SKSP	35
YPKA	26
Total IPP	608
Total Gas	887

Total Gas Required 887

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	13493	12852	12385	12042	11760	11817	12177	12340	12728	14332	15231	15784	15762	15330	15912	16257	16168	15952	15027	14942	15675	15445	14828	14299

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
YPKA	ST20	66	65	43	40	39	39	40	40	39	39	39	39	39	40	40	40	40	40	40	40	40	40	40	40
Total CCGT-Gas		5094	4815	4708	4621	4401	4271	4242	4100	3976	4023	4042	4184	4479	4962	4723	4798	4958	5196	5322	5323	5444	5625	5835	5901
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
SRDG	GT05	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 CCGT-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
BSIA	HY01	12	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	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
BSIA	HY03	12	13	12	12	12	12	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY04	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
HTRG	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
HTRG	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
KNRG	HY01	25	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	26	27	28	27	22	22	21	21	22	22	22	22	22	21	21	21	21	21	21	21	21	21	21	21
KNRG	HY03	25	26	26	26	21	21	20	21	21	21	21	21	21	20	20	20	20	20	20	20	20	20	20	20
KNYR	HY01	60	60	62	60	69	61	59	57	61	64	61	69	63	69	65	63	68	87	100	99	100	98	99	99
KNYR	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	62	61	61	59	59	61	59
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	102	102	101	101	100	100	100	98
KNYR	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101	101	101	101	101	99	99	100
LPIA	HY01	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
LPIA	HY02	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
MNOR	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	8	8	8	8	8	8
PGAU	HY01	21	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	113	113	113	113	113	113	113	113
PGAU	HY02	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	114	114	115	115	114	114	115	115
PGAU	HY03	20	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	112	112	112	112	111	111	111	111
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114	114	114	114	114	113	113	114
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
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	16	16	25	25	25
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	16	16	25	25	25	25	25
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	16	16	23	25	25	25
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	16	16	16	25	25	25	25
TMGR	HY01	33	33	34	0	0	0	0	0	0	0	0	0	0	0	0	0	82	82	82	82	82	82	82	82
TMGR	HY02	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	84	84	84	84	84	84	84	84
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79	79	79	79	79	79	79	79
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	81	81	81	81	81	81	81	81
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	184	183	183	184	87	-1	-1	-1
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	184	183	183	184	87	-1	-1	-1
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		380	323	283	246	245	237	232	278	226	229	226	234	228	235	229	227	232	717	1121	1310	1587	1706	1858	1859
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	19	19	18	18	20	20	20	20	19	19	21	20	20	20	22	19	21	19	19	18	18	18	18	18
PCUF	CUFK	33	35	34	34	33	32	34	33	35	35	32	33	34	35	34	34	32	33	32	34	34	32	33	34

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 Co-Gen		52	54	52	52	53	52	54	53	55	54	51	54	54	55	55	56	53	53	52	51	52	51	52	51	51	53	53	51	55	56	60	61	59	64	59	63	57	59	63	64	66									
Total Gen		13481	13157	12829	12606	12387	12177	12026	11914	11748	11802	11807	11928	12196	12641	12376	12403	12740	13677	14315	14785	15180	15466	15823	15893	15778	15522	15370	15699	15920	16329	16259	16240	16191	16213	16006	15473	15094	14867	14971	15672	15694	15711	15688	15287	14884	14720	14296	13856		
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			
TIE-HVDC		30	31	31	31	31	30	30	31	31	31	31	31	31	30	30	30	30	31	31	30	30	31	31	30	30	31	31	31	31	30	30	31	31	30	30	31	31	30	30	31	31	30	30	31	31	30	30	31	31	
TIE-PLTG		-42	-79	-54	-33	-28	-54	-46	-18	-43	-62	-41	-43	-11	9	6	-2	-18	-18	-47	18	-81	-14	8	-12	-14	-56	9	6	-22	3	-29	-21	-8	6	24	21	37	-20	-2	20	-11	11	-212	-34	26	132	-34	-81		
Interconnection		-12	-48	-23	-2	2	-23	-16	12	-13	-30	-10	-12	19	38	36	28	12	13	-17	48	-51	16	39	18	16	-25	40	38	8	33	2	9	23	37	54	52	67	10	29	50	19	41	243	-3	56	162	-3	-50		
System Total		13493	13205	12852	12608	12385	12200	12042	11902	11760	11832	11817	11940	12177	12603	12340	12375	12728	13664	14332	14737	15231	15450	15784	15875	15762	15547	15330	15661	15912	16296	16257	16231	16168	16176	15952	15421	15027	14857	14942	15622	15675	15670	15445	15290	14828	14558	14299	13906		
SRev ST-Coal		130	120	272	262	270	272	254	265	257	250	263	274	302	304	346	357	325	274	257	111	115	129	135	132	134	134	157	167	123	128	132	143	133	139	126	138	193	180	185	190	150	134	129	140	122	103	125	113		
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SRev CCGT-Gas		968	1247	1004	1091	1311	1441	1470	1612	1736	1689	1670	1528	1233	750	989	914	971	733	547	771	730	649	669	603	704	869	740	597	530	404	453	359	422	376	507	477	598	604	605	389	481	420	495	326	479	586	470	557		
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	0
SRev Co-Gen		5	3	5	5	4	5	3	4	2	3	6	3	3	2	2	1	4	4	5	6	5	6	5	6	6	5	7	6	5	5	6	6	4	4	6	2	1	-3	-4	-2	-7	-2	-6	0	-2	-6	-7	-9		
Syncon		811	962	1264	1264	1264	1264	1264	1264	1264	1264	1264	1264	1349	1349	1349	861	626	626	439	313	313	313	313	500	626	626	500	313	313	313	313	313	313	0	0	313	464	777	777	151	151	151	151	338	525	525	525	525		
Hydro		633	470	208	161	162	170	175	205	157	154	157	149	155	148	153	155	150	277	208	254	226	233	231	230	340	391	471	214	251	277	287	414	413	392	541	714	796	569	478	713	691	746	703	819	684	620	365	373		
S.Reserve Total		2547	2802	2753	2783	3011	3152	3166	3350	3416	3360	3360	3218	2957	2468	2839	2776	2799	2149	1643	1764	1511	1325	1348	1278	1493	1896	2001	1610	1409	1158	1221	1244	1293	922	1219	1644	2052	2127	2041	1441	1466	1449	1472	1648	1808	1828	1478	1559		