

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,254 MW
Distillate	0 MW
Total TNB	2,254 MW
Total IPP	15,347 MW
Total Co-Gen	55 MW
Total System	20,379 MW

Generation Mix

Type	MWh	Percentage
Hydro	8,549	2.53 %
Gas	30,633	9.07 %
Total TNB	39,182	11.60 %
ST-Coal	217,915	64.50 %
LSS	1,171	0.35 %
Gas	76,648	22.69 %
Total IPP	295,734	87.54 %
Co-Gen	1,712	0.51 %
Total Co-Gen	1,712	0.51 %
Total Generation	336,628	99.64 %
PLTG	-524	-0.16 %
HVDC	-693	-0.21 %
Interconnection	-1,217	-0.36 %
Net Energy	337,845	100.00 %

Maximum Demand Record

Date: 8/15/2018	18,338 MW
Date: 8/15/2018	388,524 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	20:00:00 Hour
Total Set On Bus	16,935 MW
TNB Generation	2,160 MW
IPP Generation	13,178 MW
Spinning Reserve	1,535 MW
Maximum Demand	15,432 MW
Net Energy	337,845 MWH
Load Factor	91.22 %

Fuel Cost

Total Cost:	67,494,627.10 RM
Cost per Unit	20.57 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	517
Hydro	508
Syncon	685
Thermal	285
Total	1,995

Time Weather Temperature

Afternoon	Sunny	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	53
SRDG	2
TJGS	165
Total TNB	220
CBPS	2
KLPP	71
NPRI	76
PGLA	106
PLPS	55
PTEK	2
SGRI	55
SKSP	48
YPKA	48
Total IPP	464
Total Gas	683

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Total Gas Required 683

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	14881	14064	13633	13193	12756	12599	12538	12484	12430	13349	14212	14796	14652	14381	14766	14862	14865	14627	14175	14375	15432	15303	14892	14544

Daily MW Generation on Saturday

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	GT21	123	123	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YPKA	ST20	60	60	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total CCGT-Gas		5121	4959	4828	4708	4560	4457	4209	4188	4057	4004	3984	4082	4029	4111	3940	3806	3848	4122	4338	4528	4777	4680	4865	4688
PTEK	GT1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98	74	
SRDG	GT05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123	126	
Total OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	221	200	
BSIA	HY02	11	11	12	12	11	12	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
CEND	HY01	9	10	10	10	9	9	10	10	9	10	9	10	9	10	9	10	9	9	9	9	10	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	
HTRG	HY02	-1	-1	-1	125	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
KNRG	HY02	25	25	26	26	26	25	25	26	25	25	26	25	25	26	25	25	25	25	25	26	25	36	36	
KNYR	HY02	56	58	64	65	59	56	58	60	58	60	60	61	62	59	60	58	59	59	60	58	59	59	59	
KNYR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
LPIA	HY01	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
LPIA	HY02	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	16	16	11	11	11	11	11	11	
MNOR	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	6	
PGAU	HY01	23	25	67	82	80	17	29	29	28	29	22	22	-1	-1	-1	-1	-1	-1	-1	-1	21	21	21	
PGAU	HY02	21	21	-1	22	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	21	
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	21		
PGAU	HY04	20	21	45	82	81	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	23	82		
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	50		
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50		
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25		
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24		
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25		
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25		
TMGR	HY01	33	34	34	34	32	34	34	33	34	34	34	34	34	34	34	32	-1	-1	-1	-1	-1	-1	-1	
TMGR	HY04	31	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	28	32		
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	89		
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
UPIA	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
UPIA	HY02	5	4	4	4	5	5	4	4	5	4	4	4	4	4	4	5	5	5	5	5	5	5		
Total Hydro		272	280	298	500	364	214	229	232	228	232	224	224	204	204	202	201	202	200	203	203	212	207		
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	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	10	13	19	13	11	23	29	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	14	15	27	24	32	36	32	43		
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	17	20	19	27	20	20	26		
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	11	19	28	37	36	45	50	39		
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	16	20	24	25	37	38		
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	6	23	54	86	117	122	142	154	152		
PCUF	CUFG	50	50	51	51	50	50	50	51	50	50	52	50	47	27	26	24	23	24	25	25	25	24		
PCUF	CUFK	40	38	39	40	40	39	40	42	40	38	39	39	42	40	38	39	42	39	39	40	38	39		
Total Co-Gen		90	88	90	91	90	89	90	90	90	93	90	88	89	91	92	87	65	65	66	62	63	65		
Total Gen		14831	14372	13993	13835	13568	13377	13111	12873	12745	12694	12564	12590	12483	12617	12447	12299	12362	12867	13255	13762	14129	14380		
TIE-EGAT		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	-30	-30	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29		
TIE-PLTG		-21	-37	-43	-68	-36	21	-53	-12	18	-61	-7	25	-26	1	-9	10	-38	-20	-65	-42	-54	-23		

Daily MW Generation on Saturday

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																									
Interconnection		-50	-65	-71	-97	-65	-8	-82	-41	-11	-90	-35	-3	-55	-27	-37	-19	-68	-48	-94	-71	-83	-52	-82	-58	-9	-46	-60	-31	-33	-39	-38	-84	-69	-64	-72	-32	-22	-52	-35	-64	-20	-83	-36	-46	-49	-56	-62	-21	
System Total		14881	14437	14064	13932	13633	13385	13193	12914	12756	12784	12599	12593	12538	12644	12484	12318	12430	12915	13349	13833	14212	14432	14796	14751	14652	14452	14381	14578	14766	14945	14862	14930	14865	14778	14627	14341	14175	14210	14375	15170	15432	15342	15303	15120	14892	14753	14544	14245	
SRev ST-Coal		189	212	392	400	359	320	426	473	459	469	487	495	496	446	495	500	486	487	487	401	364	316	313	278	308	360	351	259	262	203	182	249	249	247	340	358	343	336	324	236	224	235	214	223	239	242	249	261	
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	14	35	66	41	49	0	0	0		
SRev CCGT-Gas		613	401	212	137	285	405	653	443	574	627	647	549	833	751	922	1056	1014	740	667	477	302	399	214	511	740	839	864	558	507	473	595	557	504	596	445	384	496	483	559	269	363	434	319	356	472	336	538	661	
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	5	4	6	6	15	10	21	25	13	5	-12	6	5	-9	-15	-8	-4	-9	-1	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev Co-Gen		-5	-3	-5	-6	-5	-4	-5	-5	-5	-8	-5	-3	-4	-6	-7	-2	-10	-10	-11	-7	-8	-10	-8	-7	-5	-6	-6	-6	-5	-2	-3	-4	-5	-4	-6	-7	-8	-8	-7	-8	-7	-7	-8	-10	-9	-8	-7	-9	
Syncon		601	601	838	561	687	838	838	838	838	838	838	838	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	
Hydro		600	592	337	412	422	421	406	403	407	403	411	411	280	280	282	283	282	284	281	281	272	277	280	542	607	413	413	416	589	596	589	503	702	619	513	524	562	434	436	982	714	764	675	673	576	574	579	589	
S.Reserve Total		1998	1803	1774	1504	1748	1980	2318	2152	2273	2329	2378	2290	2594	2460	2681	2826	2761	2495	2417	2147	1925	1986	1798	2032	2276	2608	2616	2204	2111	2027	2106	1477	1629	1914	2020	2096	2229	2234	2301	1706	1535	1688	1680	1697	1928	1745	1960	2103	