

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,448 MW
Distillate	0 MW
Total TNB	2,448 MW
Total IPP	17,781 MW
Total Co-Gen	0 MW
Total System	23,052 MW

Generation Mix

Type	MWh	Percentage
Hydro	7,962	2.21 %
Gas	32,622	9.06 %
Total TNB	40,584	11.28 %
ST-Coal	236,758	65.78 %
LSS	2,728	0.76 %
Gas	78,534	21.82 %
Total IPP	318,020	88.36 %
Co-Gen	318	0.09 %
Total Co-Gen	318	0.09 %
Total Generation	358,922	99.72 %
PLTG	-379	-0.11 %
HVDC	-613	-0.17 %
Interconnection	-992	-0.28 %
Net Energy	359,914	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:	16:30:00 Hour
Total Set On Bus	18,814 MW
TNB Generation	2,395 MW
IPP Generation	14,838 MW
Spinning Reserve	1,570 MW
Maximum Demand	17,318 MW
Net Energy	359,914 MWH
Load Factor	86.59 %

Fuel Cost

Total Cost:	56,937,655.68 RM
Cost per Unit	15.86 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	504
Hydro	320
Syncon	995
Thermal	156
Total	1,975

Time Weather Temperature

Gas Usage

Station	(mmscfd)
GLGR	42
TJGS	192
Total TNB	234
CBPS	49
KLPP	87
NPRI	143
PGLA	103
PLPS	62
YPKA	29
Total IPP	472
Total Gas	706
Total Gas Required	706

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	14222	13475	13009	12498	12141	11986	12372	12541	12945	14765	15726	16284	16247	15946	16740	17102	17284	16984	15801	15467	16648	16659	16365	15999

Daily MW Generation on Monday

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	
BSIA	HY01	21	21	21	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	11	11	11	11	22	22	22
BSIA	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	11	11	11	22	22	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	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	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	-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	-1
KNRG	HY02	36	36	36	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
KNYR	HY03	-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	HY04	56	88	58	71	57	57	58	58	60	89	58	61	94	60	56	60	76	61	62	58	56	73	60	60	58
LPIA	HY01	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
MNOR	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	6	6	6	6	6
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	21	21	21	21	21	21
PGAU	HY02	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	110	110	110	80
PGAU	HY03	-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
SIHY	HY01	31	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	30	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	17	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	17	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	17	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	17	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	HY02	52	57	54	35	34	34	35	35	35	36	36	36	36	35	35	36	36	36	35	35	36	36	35	36	36
TMGR	HY03	-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	HY04	-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
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	88	88	90	93	93	86
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	-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	4	4	4
UPIA	HY02	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Total Hydro		330	238	205	177	184	162	164	164	166	196	165	201	167	162	189	184	169	191	163	165	204	286	346	256	196
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	2	5	13	16	19	22	23	25	27	27	22
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	14	20	20	30	40	36	36	49	48	49
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	13	24	31	35	25	47	46	35	46	46
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	14	23	34	34	31	29	35	38	39	45
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	16	13	27	34	45	47	49	50	50	45
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	15	23	18	22	27	18	32	44	41	30
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	13	18	19	19	17	50	50	50	50	33
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	11	18	22	34	42	47	46	57	57	57	44
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	17	24	30	34	37	40	41	42	44	44
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	21	64	125	180	229	269	291	336	371	391	402	380
PCUF	CUFG	3	4	4	4	6	4	5	3	4	6	4	3	4	5	4	5	4	4	5	5	5	5	5	5	5
PCUF	CUFK	3	3	4	4	5	4	4	3	2	3	5	6	4	4	4	4	4	5	3	3	4	3	4	5	4
Total Co-Gen		6	7	8	8	11	8	9	6	5	7	11	10	7	8	8	9	8	12	8	11	10	10	8	8	10
Total Gen		14245	13813	13509	13201	12968	12664	12459	12287	12130	12113	11937	12034	12344	12592	12502	12558	12862	13943	14692	15319	15659	15985	16205	16404	16194
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		30	31	31	-29	-29	-29	-29	-29	-29	-31	-31	-28	-28	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29
TIE-PLTG		-5	2	6	-36	-8	-1	-6	-17	20	18	-17	35	6	1	-7	21	-50	-28	-41	-15	-35	-62	-47	-43	-20
Interconnection		26	32	37	-66	-38	-31	-36	-46	-8	-11	-46	4	-25	-27	-36	-9	-80	-58	-70	-44	-64	-92	-76	-73	-50

Daily MW Generation on Monday

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																										
System Total		14222	13784	13475	13270	13009	12698	12498	12336	12141	12127	11986	12033	12372	12622	12541	12570	12945	14004	14765	15366	15726	16080	16284	16480	16247	16023	15946	16257	16740	17060	17102	17168	17284	17318	16984	16481	15801	15461	15467	16297	16648	16808	16659	16507	16365	16177	15999	15479		
SRev ST-Coal		207	236	199	401	175	51	240	265	329	329	329	318	342	279	249	256	254	174	316	268	131	136	148	145	148	138	143	141	129	137	144	137	140	137	134	148	147	135	148	143	136	147	144	151	153	144	138	102		
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	0
SRev CCGT-Gas		900	1212	1521	1599	1768	1821	1791	1763	1749	1708	1840	1714	1717	1727	1905	2012	1771	930	920	843	818	565	580	560	712	930	994	692	309	387	352	323	247	240	445	559	1136	1399	1516	769	502	334	498	555	386	401	570	910		
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		64	63	62	62	59	62	61	64	65	63	59	60	63	62	62	62	61	62	58	62	59	60	60	62	62	60	62	62	61	61	61	60	63	59	64	60	60	60	61	61	19	3	3	5	55	62	4	5		
Syncon		1355	1355	1355	1355	1204	1355	1355	1355	1355	1355	1355	1355	1355	1204	1355	1355	1204	1355	1355	1204	1117	1117	1268	1268	1268	1268	842	842	842	655	655	655	1029	1180	1180	1029	1029	878	878	878	878	1029	1117	1117	1268					
Hydro		176	68	101	129	273	144	142	142	140	110	141	138	105	139	144	268	122	137	266	143	141	253	358	298	137	197	201	196	195	419	420	429	499	483	474	450	285	252	210	186	315	345	345	346	214	266	286	138		
S.Reserve Total		2702	2934	3238	3546	3479	3433	3589	3589	3638	3565	3724	3585	3582	3562	3715	3802	3563	2658	2764	2671	2504	2218	2263	2182	2327	2593	2668	2359	1962	1846	1819	1791	1604	1574	1772	2246	2808	3026	2964	2188	1850	1707	1868	1935	1837	1990	2115	2423		