

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,515 MW
Distillate	0 MW
Total TNB	2,515 MW
Total IPP	16,673 MW
Total Co-Gen	0 MW
Total System	22,613 MW

Maximum Demand Record

Date: 3/10/2020	18,808 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:00:00 Hour
Total Set On Bus	18,240 MW
TNB Generation	3,874 MW
IPP Generation	12,851 MW
Spinning Reserve	1,431 MW
Maximum Demand	16,679 MW
Net Energy	356,964 MWH
Load Factor	89.18 %

Gas Usage

Station	(mmscfd)
GLGR	46
TJGS	185
Total TNB	231
CBPS	46
NPRI	136
PGLA	101
PLPS	36
YPKA	21
Total IPP	340
Total Gas	570
Total Gas Required	570

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Generation Mix

Type	MWh	Percentage
Hydro	17,429	4.88 %
Gas	56,409	15.80 %
Total TNB	73,838	20.68 %
ST-Coal	204,870	57.39 %
LSS	3,206	0.90 %
Gas	75,974	21.28 %
Total IPP	284,050	79.57 %
Co-Gen	483	0.14 %
Total Co-Gen	483	0.14 %
Total Generation	358,371	100.39 %
PLTG	686	0.19 %
HVDC	721	0.20 %
Interconnection	1,407	0.39 %
Net Energy	356,964	100.00 %

Fuel Cost

Total Cost:	43,161,705.53 RM
Cost per Unit	12.04 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	701
Hydro	216
Syncon	674
Thermal	343
Total	1,934

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	28

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	14839	14104	13553	13218	12745	12530	12574	12778	13028	14473	15244	15762	15647	15463	16158	16592	16679	16433	15504	15207	16509	16375	15779	15490

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
CEND	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
CEND	HY03	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	HY04	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	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	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY03	37	37	37	37	37	37	37	38	25	25	26	26	25	24	24	24	23	24	23	24	23	24	23	24
KNYR	HY01	100	101	101	100	100	101	101	100	101	101	101	101	100	101	101	100	101	101	100	101	101	100	101	100
KNYR	HY02	100	101	101	101	100	101	101	101	101	101	101	101	101	101	101	101	101	101	100	101	101	101	100	101
KNYR	HY03	100	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	102	101	101	100
KNYR	HY04	100	101	101	101	101	102	102	100	101	101	101	101	101	101	101	101	101	101	101	100	101	102	102	101
LPIA	HY01	17	17	17	17	17	17	17	17	17	17	17	17	19	19	19	19	18	18	18	18	18	18	18	18
LPIA	HY02	17	17	17	17	17	17	17	17	17	17	17	17	19	19	19	19	18	18	18	18	18	18	18	18
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	5	5	7	7	7
PGAU	HY01	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY02	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1
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	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
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
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
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
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
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
TMGR	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
TMGR	HY03	37	40	39	41	39	49	46	41	40	40	41	43	63	38	75	41	55	39	41	40	60	41	42	50
TMGR	HY04	37	41	-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	-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	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Total Hydro		611	645	579	602	577	590	587	577	581	555	558	561	582	552	590	558	570	549	561	478	500	459	458	467
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	2	5	9	13	16	20	22	24	26	27	29
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	12	18	22	26	30	29	29	27
BLSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	10	16	21	26	29	30	30	30	30
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	17	25	30	35	41	40	35	43	42
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	12	16	19	20	24	24	27	20
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	14	22	28	33	39	43	46	49	50
JSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	18	25	33	38	44	35	49	50	50
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	13	21	28	33	38	41	44	46	47
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	15	20	24	28	30	30	30	30
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	18	28	37	45	49	10	10	46	50
SSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	14	20	26	31	35	38	41	42	43
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	14	19	23	28	14	11	22	21
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	27	77	149	223	292	349	399	359	375	441	439
PCUF	CUFG	46	7	6	6	8	10	9	10	9	7	10	11	11	9	11	11	10	8	9	7	9	7	7	6
PCUF	CUFK	35	4	4	4	4	5	5	5	5	3	4	5	3	4	4	4	4	6	4	4	4	4	5	5

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		81	11	10	10	12	15	14	15	14	12	13	15	16	12	15	15	14	12	15	11	13	10	11	12	12	12	10	11	7	11	67	82	84	85	83	16	12	12	14	10	8	6	9	8	8	9	8	6				
Total Gen		14955	14553	14240	13813	13664	13408	13239	13017	12780	12691	12585	12562	12626	12778	12781	12762	13062	13964	14480	14987	15276	15491	15733	15742	15700	15526	15538	15895	16259	16554	16676	16750	16809	16716	16505	16138	15640	15239	15259	16026	16570	16517	16379	16246	15829	15793	15525	15303				
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	0		
TIE-HVDC		30	30	30	30	30	30	30	31	31	30	30	30	30	30	30	30	30	30	30	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	29	31	31	30	30	30	30	30	30	30	31	31			
TIE-PLTG		89	76	109	-2	85	21	-6	2	7	36	28	6	24	101	-24	-26	-53	-13	-19	7	5	-42	-56	-40	27	-20	48	17	74	24	57	83	102	54	45	120	109	56	26	15	34	59	-22	40	24	10	7	70				
Interconnection		119	106	139	28	114	51	24	33	38	66	58	36	55	131	6	4	-23	17	10	37	35	-12	-26	-11	56	10	78	47	104	54	87	113	133	84	75	150	139	86	55	44	64	89	8	70	54	40	38	100				
System Total		14839	14450	14104	13788	13553	13360	13218	12987	12745	12628	12530	12529	12574	12650	12778	12761	13028	13950	14473	14953	15244	15506	15762	15756	15647	15519	15463	15851	16158	16503	16592	16640	16679	16635	16433	15991	15504	15156	15207	15985	16509	16432	16375	16180	15779	15756	15490	15206				
SRev ST-Coal		308	253	256	447	442	680	688	744	868	866	867	869	829	838	867	846	906	737	587	466	372	356	370	362	373	358	368	370	374	376	344	319	330	321	293	329	338	346	334	356	251	294	248	257	240	249	250	248				
SRev CCGT-Gas		1081	1548	1806	2050	2137	1924	1976	2113	2064	2118	2077	2064	1978	2034	1900	2066	2070	1827	1697	1511	1411	1287	1071	1036	1085	1259	1196	955	473	418	337	357	288	347	350	564	670	785	707	335	266	246	246	366	533	419	529	694				
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	0		
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	0	
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	0	0
SRev Co-Gen		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Syncon		889	738	976	825	976	976	976	976	976	976	976	976	976	976	976	976	976	976	976	825	825	976	976	976	976	976	976	976	976	615	615	615	615	615	615	802	802	889	889	889	428	428	277	313	313	464	500	500	313			
Hydro		130	247	75	203	77	64	67	77	73	99	96	93	72	102	64	96	84	105	93	227	205	95	96	87	98	99	98	153	327	253	207	214	203	197	165	164	197	137	136	188	169	348	288	388	454	352	238	312				
S.Reserve Total		2408	2786	3113	3525	3632	3644	3707	3910	3981	4059	4016	4002	3855	3950	3807	3984	4036	3645	3353	3029	2813	2714	2513	2461	2532	2692	2638	2454	1789	1662	1503	1505	1436	1480	1610	1859	2094	2157	2066	1307	1114	1165	1095	1324	1691	1520	1517	1567				