

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,522 MW
Distillate	0 MW
Total TNB	2,522 MW
Total IPP	16,102 MW
Total Co-Gen	0 MW
Total System	22,175 MW

Generation Mix

Type	MWh	Percentage
Hydro	20,694	5.81 %
Gas	63,787	17.92 %
Total TNB	84,481	23.74 %
ST-Coal	211,420	59.40 %
LSS	3,651	1.03 %
Gas	54,403	15.29 %
Total IPP	269,474	75.72 %
Co-Gen	1,663	0.47 %
Total Co-Gen	1,663	0.47 %
Total Generation	355,618	99.92 %
PLTG	272	0.08 %
HVDC	-552	-0.16 %
Interconnection	-280	-0.08 %
Net Energy	355,898	100.00 %

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:	15:30:00 Hour
Total Set On Bus	18,426 MW
TNB Generation	4,168 MW
IPP Generation	12,186 MW
Spinning Reserve	2,002 MW
Maximum Demand	16,453 MW
Net Energy	355,898 MWH
Load Factor	90.13 %

Fuel Cost

Total Cost:	42,514,789.24 RM
Cost per Unit	11.95 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	623
Hydro	404
Syncon	629
Thermal	270
Total	1,926

Time Weather Temperature

Afternoon	Hot	34
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	15034	14245	13762	13300	12972	12668	12767	12888	13207	14674	15421	15722	15680	15532	16149	16410	16432	16181	15174	14926	16157	15983	15443	15098

Gas Usage

Station	(mmscfd)
GLGR	48
TJGS	193
Total TNB	241
CBPS	8
KLPP	15
NPRI	141
PGLA	101
PLPS	36
YPKA	25
Total IPP	327
Total Gas	568
Total Gas Required	568

Alternate Fuel Usage

Station	(mmscfd)
Total	0

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	HY01	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	HY02	10	10	10	9	10	10	10	10	9	9	10	9	9	9	9	9	9	9	9	10	9	10	10	9
CEND	HY03	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	10	10	10	10	10	10	10
CEND	HY04	8	8	8	8	8	7	7	8	8	8	8	8	7	8	7	7	7	7	7	7	7	7	8	8
HTRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	125
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	123	123
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	24	36	36	36	36	36	36	36	24	24	36	36
KNRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	24	37	37	37	37	37	37	37	24	24	37	37
KNRG	HY03	37	37	37	37	37	37	37	23	24	24	23	23	24	23	36	36	35	35	35	35	23	24	37	37
KNYR	HY01	100	100	101	101	101	100	100	100	100	101	101	101	101	100	100	101	101	101	100	100	101	101	100	100
KNYR	HY02	105	105	105	106	105	106	105	105	104	105	106	106	105	105	105	106	106	105	106	106	105	105	106	106
KNYR	HY03	101	101	101	101	101	101	100	101	100	101	101	101	101	101	101	101	101	102	101	101	100	101	101	100
KNYR	HY04	100	101	101	101	101	101	100	101	100	101	101	101	101	101	101	100	101	102	101	101	101	101	101	100
LPIA	HY01	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
LPIA	HY02	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
MNOR	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	7	7	7	7	7	4	4
PGAU	HY01	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	19	20	19	19	19	19	82	110
PGAU	HY02	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	21	21	21	21	21	21	22	-1	0
PGAU	HY03	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	22	22	22	22	22	22	22	-1	81
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	51	51	51	51	0	0
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	50	50	50	50	0	0
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	25	0
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	25	0
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25	25	17	17	25	0
TMGR	HY01	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	33	62	62	-1	-1	-1	-1	87	0
TMGR	HY02	45	57	46	71	45	47	46	46	45	45	46	67	89	45	44	44	48	81	75	88	45	48	92	42
TMGR	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
TMGR	HY04	86	33	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	33	61	61	31	33	29	33	86	86
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	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	-1	-1
UPIA	HY01	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
UPIA	HY02	6	6	6	6	6	6	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6
Total Hydro		722	648	660	651	625	606	600	599	601	583	589	613	635	584	582	585	589	672	704	759	789	862	963	915
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	1	4	9	12	7	15	18	20	16	23	28	27
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	7	14	17	24	28	30	30	29	28	29	30
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	5	12	17	20	25	27	30	30	30	30	30	30
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	9	17	24	31	36	31	23	44	44	49	46
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	10	18	24	23	37	38	41	34	37	38	45
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	3	9	13	20	19	13	25	26	30	30	25
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	8	16	22	29	34	41	45	47	50	50	48
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	8	9	14	29	30	43	46	50	48	47	42
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	7	16	24	28	33	36	40	43	44	47	48
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	5	4	7	11	28	29	30	30	30	30	30
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	7	8	12	13	41	44	40	50	29	34	50
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	11	19	29	36	43	49	52	46	52	40	40
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	6	14	19	23	29	33	34	39	40	42	44

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																											
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	2	4	6	8	19	24	7	19	25	28	29	29	15	23	29	28	25	20	16	9	7	5	1	0	0	0	0	0	0	0	0	0								
Total LSS		0	0	0	0	0	0	0	0	0	0	0	26	90	164	239	306	418	437	475	510	515	523	537	495	455	440	403	344	273	246	201	125	61	22	2	0	0	0	0	0	0	0	0	0							
PCUF	CUFG	40	41	42	38	40	42	40	40	39	42	42	43	41	39	41	40	40	42	41	39	41	40	39	41	41	40	40	38	42	42	40	40	39	41	40	41	42	41	44	38	39	40	40	38	43						
PCUF	CUFK	14	29	29	28	29	30	31	30	29	29	30	30	29	30	28	30	28	30	31	29	27	30	28	28	28	27	30	29	29	28	28	30	29	28	28	30	30	29	29	30	30	29	28	29	30	30					
Total Co-Gen		54	70	71	66	69	72	71	70	68	71	72	72	73	70	69	69	70	68	72	72	68	66	71	68	67	67	68	71	69	69	66	70	72	69	68	67	71	70	70	71	71	74	67	67	69	70	68	73			
Total Gen		15045	14511	14219	13894	13753	13525	13273	13094	12962	12800	12618	12630	12749	12860	12862	13062	13115	14148	14561	15047	15373	15494	15665	15802	15659	15586	15541	15799	16134	16381	16444	16424	16328	16373	16158	15550	15177	14902	14926	15797	16163	16153	16011	15773	15456	15331	15083	14795			
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			
TIE-HVDC		-29	-28	-28	-29	-29	-30	-29	-29	-29	-29	-29	-29	-30	-30	-28	-28	-29	-29	0	0	0	0	0	0	0	0	0	0	-30	-30	-29	-29	-29	-29	-29	-30	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29			
TIE-PLTG		52	-20	12	34	30	-7	15	1	31	50	-9	20	22	58	14	-14	-51	6	-74	-74	-8	-31	-46	-28	-10	-11	20	-62	-4	-31	45	12	-63	13	17	30	42	53	43	79	47	79	68	60	52	22	24	34			
Interconnection		23	-48	-16	5	1	-37	-15	-28	2	20	-39	-9	-7	29	-15	-44	-81	-22	-102	-103	-37	-31	-46	-28	-10	-11	20	-62	-4	-31	45	-18	-93	-16	-12	1	14	24	12	50	18	51	39	31	24	-7	-4	5			
System Total		15034	14571	14245	13899	13762	13572	13300	13134	12972	12792	12668	12650	12767	12842	12888	13117	13207	14181	14674	15161	15421	15536	15722	15841	15680	15608	15532	15872	16149	16423	16410	16453	16432	16400	16181	15560	15174	14890	14926	15759	16157	16113	15983	15753	15443	15349	15098	14801			
SRev ST-Coal		331	338	368	381	432	442	608	636	627	720	800	781	750	620	619	618	595	382	284	209	191	182	193	197	198	185	436	418	375	336	320	322	305	262	256	246	269	257	251	259	259	257	315	328	341	310	334	340			
SRev CCGT-Gas		1205	1469	1660	1951	1958	2071	2156	2154	2160	2101	2084	2039	1992	2127	2125	2099	2013	1339	1075	742	569	683	721	659	731	845	989	988	932	703	813	730	519	224	450	577	858	975	901	396	324	348	407	535	688	923	1134	1171			
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
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		953	1040	889	976	976	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	976	674	500	500	500	587	587	587	587	500	500	500	500	500	651	802	802	802	1040	1040	1040	853	551	551	551	638	461	461	548			
Hydro		112	99	240	162	188	56	60	61	59	77	72	48	26	77	79	76	72	69	37	181	479	580	479	527	538	510	543	520	451	444	507	455	429	289	163	452	453	317	303	110	172	472	490	438	563	251	243	231			
S.Reserve Total		2601	2946	3157	3470	3554	3696	3951	3978	3973	4025	4083	3995	3895	3951	3950	3920	3807	2917	2523	2108	1913	1945	1893	1883	2054	2127	2555	2513	2258	1983	2140	2007	1753	1426	1671	2077	2382	2589	2495	1805	1608	1628	1763	1852	2230	1945	2172	2290			