

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	15,444 MW
Total Co-Gen	0 MW
Total System	21,510 MW

Generation Mix

Type	MWh	Percentage
Hydro	27,114	7.80 %
Gas	54,280	15.61 %
Total TNB	81,394	23.41 %
ST-Coal	196,209	56.43 %
LSS	3,348	0.96 %
Gas	65,734	18.90 %
Total IPP	265,291	76.29 %
Co-Gen	1,877	0.54 %
Total Co-Gen	1,877	0.54 %
Total Generation	348,562	100.24 %
PLTG	228	0.07 %
HVDC	606	0.17 %
Interconnection	834	0.24 %
Net Energy	347,728	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:	20:30:00 Hour
Total Set On Bus	16,760 MW
TNB Generation	4,958 MW
IPP Generation	10,934 MW
Spinning Reserve	788 MW
Maximum Demand	15,950 MW
Net Energy	347,728 MWH
Load Factor	90.84 %

Fuel Cost

Total Cost:	45,354,913.57 RM
Cost per Unit	13.01 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	664
Hydro	412
Syncon	388
Thermal	263
Total	1,727

Time Weather Temperature

Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	38
SRDG	8
TJGS	195
Total TNB	241
CBPS	51
NPRI	150
PGLA	102
PLPS	2
Total IPP	304
Total Gas	545
Total Gas Required	545

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	15145	14378	13911	13456	13093	12880	12699	12683	12773	13810	14409	14776	14746	14817	15287	15753	15598	15319	14581	14646	15888	15853	15462	15322

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	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	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
HTRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	125	125	125	125	125
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	125	124	123	124	124	124
KNRG	HY01	36	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	36	36	36	36	36	36
KNRG	HY02	37	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	37	37	37	37	37	37
KNRG	HY03	35	20	37	37	37	37	37	23	24	23	23	23	23	24	23	23	23	36	35	36	35	35	35	35
KNYR	HY01	101	100	100	101	101	101	101	100	101	101	100	100	100	101	101	100	100	101	101	100	101	101	100	101
KNYR	HY02	102	101	101	102	101	101	101	101	101	101	101	101	101	101	101	101	101	102	102	101	101	101	102	102
KNYR	HY03	102	101	101	102	101	101	101	101	101	101	101	101	101	101	101	101	101	102	101	101	101	102	102	102
KNYR	HY04	102	101	101	102	101	101	101	102	102	101	102	101	100	59	101	101	100	101	101	101	101	102	102	102
LPIA	HY01	20	20	13	15	15	15	15	17	17	18	18	18	20	22	22	22	23	23	23	23	22	22	22	21
LPIA	HY02	22	22	12	15	15	15	12	0	0	0	0	0	0	0	0	0	0	0	20	20	20	20	20	20
MNOR	HY01	4	4	4	4	4	4	0	0	0	0	0	0	0	0	0	0	0	1	1	2	5	5	5	5
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	21	21	21	21	110	112
PGAU	HY02	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	21	21	82	82	82	83	82
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	81	81	81	82	81
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	110	111	110	110	
SIHY	HY01	31	48	31	31	31	31	0	0	0	0	0	0	0	0	0	0	0	30	30	50	49	50	49	49
SIHY	HY02	31	50	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	0
SIHY	HY03	31	50	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	50	50	49	50	50	50
SYPS	HY01	25	25	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	17	0
SYPS	HY02	25	25	25	25	25	17	17	17	17	17	17	17	17	17	17	17	17	25	25	25	25	25	17	0
SYPS	HY03	25	25	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	17	0
SYPS	HY04	25	25	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	17	0
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	85	85	85	84	84	84	85
TMGR	HY02	67	43	69	71	45	46	44	44	44	42	58	44	44	46	40	42	45	54	44	42	45	44	64	57
TMGR	HY03	85	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85	85	83	83	83	83
TMGR	HY04	65	40	66	67	42	43	42	41	41	39	55	41	41	43	38	39	42	51	41	38	41	41	59	52
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	87	93	93	91	91	87	91	92
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	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Total Hydro		1078	1037	903	915	860	861	703	677	621	591	628	599	597	605	593	585	424	613	592	584	594	710	769	
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	1	1	1	1	2	9	14	14	14	22	16
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	5	5	12	13	24	27	27	30	26
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	8	9	14	25	24	30	30	30	20
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	15	23	29	33	37	41	42	46	46
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	7	12	14	24	34	41	47	43	42
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	6	18	17	25	25	9	13	21	28
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	7	12	25	39	40	44	29	28	16
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	16	23	29	36	40	44	32	39	32
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	7	14	25	34	34	30	37	45	48
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	5	8	7	14	30	30	24	28
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	11	14	15	31	50	50	47	48
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	10	8	17	44	52	50	52	52	52	52
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	5	10	3	1	2	14	29	28	26

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	0	0	1	3	2	10	13	9	10	10	14	14	19	30	18	22	26	14	23	17	6	5	5	5	5	0	0	0	0	0	0	0	5	5	5					
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	27	77	107	170	249	322	379	436	446	469	457	484	406	392	425	412	365	337	268	225	138	73	26	0	0	0	0	0	0	0	5	5	5					
PCUF	CUFG	48	48	48	50	50	49	50	49	47	49	51	48	47	50	48	49	48	48	49	48	50	49	47	48	50	49	49	50	48	49	47	52	48	49	47	48	49	51	49	51	50	50	50	51	50	51					
PCUF	CUFK	28	29	29	30	30	29	30	28	30	29	29	29	29	29	28	30	29	28	30	31	28	29	30	27	30	28	30	29	29	30	29	28	30	29	30	29	30	29	30	29	29	30	29	30	29	29					
Total Co-Gen		76	77	77	80	80	78	80	77	77	78	80	77	76	79	77	77	80	78	76	78	80	76	79	79	74	78	78	79	78	78	75	82	77	79	76	78	78	81	78	80	80	79	80	80	79	80	80	79	80		
Total Gen		15177	14848	14384	14237	13926	13770	13490	13292	13143	12963	12895	12769	12756	12825	12718	12794	12724	13360	13860	14194	14399	14601	14804	14890	14809	14869	14878	15136	15366	15590	15782	15812	15653	15618	15333	15034	14654	14422	14662	15506	15870	15972	15906	15762	15487	15466	15340	15247			
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		
TIE-HVDC		31	30	30	30	30	29	29	31	31	30	31	31	31	29	29	29	31	31	31	32	29	29	31	31	31	30	30	31	31	31	31	30	30	-29	-29	-30	-30	29	29	31	31	29	29	29	30	29	30				
TIE-PLTG		4	1	-21	13	-12	-10	8	17	22	33	-11	3	29	19	9	10	-74	-35	22	14	-39	8	2	-5	35	6	34	11	52	26	2	20	27	22	-14	33	46	64	48	23	14	-5	26	41	-3	-20	-8	-34			
Interconnection		35	31	9	44	18	20	37	48	54	63	19	34	60	50	38	39	-45	-6	54	45	-7	39	31	24	66	36	64	42	83	56	32	51	58	53	17	63	76	36	19	-7	-15	25	56	72	28	8	21	-4			
System Total		15145	14820	14378	14196	13911	13753	13456	13247	13093	12904	12880	12739	12699	12778	12683	12758	12773	13370	13810	14153	14409	14565	14776	14869	14746	14836	14817	15097	15287	15538	15753	15764	15598	15568	15319	14974	14581	14389	14646	15516	15888	15950	15853	15693	15462	15461	15322	15254			
SRev ST-Coal		337	386	381	376	367	400	376	374	379	391	554	422	431	428	433	431	427	405	384	190	349	367	360	368	367	390	401	359	328	297	299	314	331	242	239	214	235	234	183	207	105	85	118	147	118	130	132	129			
SRev CCGT-Gas		1166	1405	1293	1105	1369	1500	1641	1804	1905	2037	1802	2003	2005	1958	2046	1963	1921	1722	1312	1301	1240	1204	1126	1130	1184	1131	1175	1087	594	405	324	324	335	217	324	277	239	381	312	200	189	200	300	363	403	272	309	350			
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		889	889	889	889	889	889	738	889	889	889	889	889	889	889	889	889	889	889	889	889	702	702	551	702	702	702	400	313	313	313	313	313	187	187	187	187	187	187	187	0	0	0	0	0	0	0	0	0	0		
Hydro		136	177	145	133	188	187	266	141	121	151	114	143	146	138	150	147	307	118	139	147	138	259	205	307	205	201	209	520	477	416	467	408	452	618	346	326	629	651	707	646	502	504	525	919	777	583	662	720			
S.Reserve Total		2536	2865	2716	2511	2821	2984	3034	3221	3334	3508	3399	3497	3511	3453	3558	3470	3549	3139	2729	2532	2621	2537	2393	2356	2458	2424	2487	2366	1712	1431	1403	1359	1431	1264	1096	1004	1290	1453	1394	1059	803	793	944	1513	1484	985	1103	1199			