

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,320 MW
Distillate	0 MW
Total TNB	2,320 MW
Total IPP	16,677 MW
Total Co-Gen	0 MW
Total System	21,965 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,699	4.96 %
Gas	37,522	11.14 %
Total TNB	54,221	16.09 %
ST-Coal	200,273	59.45 %
ST-Gas	1,099	0.33 %
LSS	3,523	1.05 %
Gas	77,866	23.11 %
Total IPP	282,761	83.93 %
Co-Gen	164	0.05 %
Total Co-Gen	164	0.05 %
Total Generation	337,146	100.08 %
PLTG	-460	-0.14 %
HVDC	721	0.21 %
Interconnection	261	0.08 %
Net Energy	336,885	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	16,945 MW
TNB Generation	2,799 MW
IPP Generation	12,644 MW
Spinning Reserve	1,494 MW
Maximum Demand	15,497 MW
Net Energy	336,885 MWH
Load Factor	90.58 %

Fuel Cost

Total Cost:	53,316,614.26 RM
Cost per Unit	15.81 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	972
Hydro	129
Syncon	709
Thermal	231
Total	2,041

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	28
TJGS	147
Total TNB	175
CBPS	41
KLPP	36
NPRI	156
PGLA	49
PLPS	35
PKLG	10
Total IPP	328
Total Gas	503
Total Gas Required	503

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	14483	13745	13313	12806	12537	12204	12168	12120	12222	13558	14108	14514	14673	14646	15080	15425	15488	15075	14214	14188	15164	15091	14805	14783

Daily MW Generation on Friday

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
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
KNRG	HY01	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	23	23	36	36	35	35
KNRG	HY02	36	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	0	0	0	0	0	37	36	36
KNRG	HY03	35	36	36	36	37	37	36	37	37	37	37	37	37	37	37	36	36	36	36	36	36	35	35	35
KNYR	HY01	97	97	97	55	55	55	-1	59	60	-1	-1	-1	61	60	-1	-1	97	97	97	97	97	97	97	97
KNYR	HY02	74	59	57	70	57	72	95	68	60	60	61	61	61	60	91	83	98	62	98	98	56	98	61	58
KNYR	HY03	96	98	97	56	57	-1	11	75	72	72	60	60	60	-1	-1	99	98	98	98	98	98	98	98	98
KNYR	HY04	97	98	57	57	57	60	59	61	60	90	99	61	78	65	61	94	85	99	99	99	99	99	99	99
LPJA	HY02	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	25	25	25	25	25	25	25	25	25
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
PGAU	HY01	-1	-1	-1	-1	19	-1	-1	-1	-1	19	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	19	-1	-1
SIHY	HY01	31	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	47	47
SIHY	HY02	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50
SIHY	HY03	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	16	17	25	16	16	16	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	17	25	25	25	25
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25
TMGR	HY01	32	31	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	83	83	83	83	83	-1	82	82	82
TMGR	HY02	35	34	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	88	88	88	32
TMGR	HY03	30	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY04	41	40	39	41	41	40	63	51	42	40	42	42	41	41	42	41	42	42	83	41	62	71	40	71
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	-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	5	5	5	5	5	5	5	5	5	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5
UPIA	HY02	4	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
Total Hydro		834	762	567	467	396	370	357	439	434	357	367	376	367	414	341	275	441	519	611	513	571	594	510	565
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	3	8	10	14	17	20	22	17	26	26
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	9	17	4	10	11	22	17	27	29
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	9	17	20	23	22	32	18	32	32
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	15	20	27	31	34	35	37	38	35
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	11	23	28	32	36	38	35	44
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	12	15	19	22	14	11	22	30	29	26
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	9	12	20	27	32	15	29	21	48
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	16	23	29	28	26	43	45	23
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	14	21	17	31	36	37	42	42	42
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	8	14	22	25	29	30	30	30	25
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	11	17	23	31	36	40	39	45	49
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	12	20	28	35	39	43	40	45	52
SSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	15	20	23	30	28	23	36	31
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	11	15	18	22	24	27	27	29
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	11	24	29	30	30	20	27	22	30
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	9	49	119	205	299	347	411	410	450	468	531
PCUF	CUFK	3	3	3	3	3	5	3	4	3	3	3	3	3	3	4	3	3	3	3	4	3	3	4	3
PCUF	CUFK	5	3	4	3	3	3	3	3	4	3	3	4	4	4	2	4	4	4	1	3	4	1	3	3
Total Co-Gen		8	6	7	6	6	8	6	7	7	6	7	7	8	9	7	7	7	8	5	7	7	8	4	6

Daily MW Generation on Friday

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 Gen		14484	14177	13811	13551	13330	13118	12787	12609	12526	12356	12227	12198	12182	12225	12152	12014	12214	13058	13524	13919	14128	14425	14518	14674	14687	14660	14708	14881	15069	15206	15462	15451	15492	15396	15106	14703	14233	14111	14233	14982	15186	15160	15111	14971	14813	14820	14804	14642				
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	0	
TIE-HVDC		30	30	30	30	30	30	31	31	30	30	31	31	30	30	29	29	30	30	31	31	30	30	30	30	30	29	29	29	29	30	30	30	30	29	29	30	30	30	30	30	31	31	30	30	30	30	30	30	30	30	30	30
TIE-PLTG		-27	6	39	-21	-10	-10	-47	-46	-38	-7	-5	-20	-13	-39	6	-22	-34	-45	-62	-4	-7	-30	-23	-11	-13	-19	36	-60	-37	-91	10	-73	-23	-39	4	16	-9	-25	18	-18	-6	-37	-7	-6	-19	-35	-6	-13				
Interconnection		4	36	69	9	20	20	-16	-15	-8	23	26	11	18	-9	36	7	-5	-15	-31	27	23	0	7	19	17	12	65	-30	-8	-62	40	-43	7	-9	34	45	22	5	48	12	25	-7	23	24	11	-5	24	17				
System Total		14483	14144	13745	13545	13313	13101	12806	12627	12537	12336	12204	12190	12168	12238	12120	12011	12222	13076	13558	13895	14108	14428	14514	14658	14673	14651	14646	14914	15080	15271	15425	15497	15488	15408	15075	14661	14214	14109	14188	14973	15164	15170	15091	14950	14805	14828	14783	14628				
SRev ST-Coal		220	357	362	394	399	432	660	578	576	582	638	682	683	669	761	766	585	492	463	428	298	290	302	335	311	312	302	239	229	137	134	144	134	140	137	120	113	150	108	128	130	127	124	126	117	124	245					
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 CCGT-Gas		916	1059	1405	1443	1239	1393	1398	1647	1636	1669	1638	1641	1642	1644	1650	1649	1650	1547	1383	1147	1137	1136	880	892	880	731	950	974	802	697	437	443	543	653	885	1205	1686	1653	1639	1538	1280	1267	1275	1343	1397	1034	1047	1046				
SRev ST-Gas		1	1	2	2	2	8	41	38	35	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	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	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	0
Syncon		651	651	738	826	826	776	927	826	826	927	927	927	776	826	927	1028	927	826	675	826	826	826	826	826	675	739	552	739	739	739	588	826	651	651	651	651	651	752	752	313	464	651	651	738	651	126	126	313				
Hydro		335	343	215	227	234	310	172	191	208	172	162	153	324	215	187	152	88	111	170	117	59	61	145	90	248	129	133	35	105	29	254	91	62	138	151	247	249	268	225	286	180	65	107	98	208	430	429	289				
S.Reserve Total		2148	2411	2722	2892	2700	2919	3198	3305	3306	3418	3365	3403	3425	3368	3433	3590	3431	3069	2720	2553	2450	2321	2141	2110	2138	1910	1947	2050	1885	1694	1416	1494	1400	1576	1827	2240	2706	2786	2766	2245	2052	2113	2160	2303	2468	1707	1726	1893				