

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	16,742 MW
Total Co-Gen	0 MW
Total System	22,021 MW

Maximum Demand Record

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

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	203
Total TNB	233
KLPP	50
NPRI	154
PGLA	87
Total IPP	291
Total Gas	524
Total Gas Required	524

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:00:00 Hour
Total Set On Bus	17,490 MW
TNB Generation	4,040 MW
IPP Generation	12,386 MW
Spinning Reserve	1,056 MW
Maximum Demand	16,384 MW
Net Energy	345,052 MWH
Load Factor	87.75 %

Generation Mix

Type	MWh	Percentage
Hydro	30,108	8.73 %
Gas	45,559	13.20 %
Total TNB	75,667	21.93 %
ST-Coal	217,530	63.04 %
LSS	3,225	0.93 %
Gas	49,451	14.33 %
Total IPP	270,206	78.31 %
Co-Gen	210	0.06 %
Total Co-Gen	210	0.06 %
Total Generation	346,083	100.30 %
PLTG	397	0.12 %
HVDC	634	0.18 %
Interconnection	1,031	0.30 %
Net Energy	345,052	100.00 %

Fuel Cost

Total Cost:	46,908,602.31 RM
Cost per Unit	13.54 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	422
Hydro	473
Syncon	117
Thermal	211
Total	1,223

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	13570	12960	12583	12251	11930	11805	11946	12294	13008	14541	15277	15610	15523	15347	15847	16150	16384	16032	15187	14995	15819	15555	15164	14920

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																											
KNRG	HY01	35	35	35	35	35	23	22	23	23	23	22	22	22	22	23	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33											
KNRG	HY02	36	36	36	36	36	36	23	22	23	23	22	22	22	22	23	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35											
KNRG	HY03	35	35	35	35	35	35	21	20	21	21	21	20	20	21	21	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34										
KNYR	HY01	104	105	104	105	105	105	105	104	104	104	103	103	104	105	104	103	104	104	104	104	103	104	103	104	103	104	103	104	103	104	103	104	103	104	105	104	104	104	104	104											
KNYR	HY02	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110											
KNYR	HY03	110	111	110	111	111	111	111	111	111	111	111	110	110	111	111	111	111	111	110	110	111	111	111	111	110	110	111	110	111	110	111	110	111	110	112	111	111	111	111	111											
KNYR	HY04	105	106	105	105	106	106	105	105	105	106	105	104	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	104	105	106	105	105	105	105	105	105	105	105										
LPIA	HY01	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22											
LPIA	HY02	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23											
MNOR	HY01	8	8	8	8	2	2	2	2	2	2	2	2	2	2	2	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	9	9	8	8	4	4	3	3											
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	111	79	149	149	150	150	149	79	21	-1	-1	111	111	111	111	111	21	21	21	-1	-1	81	80	80	-1	-1	-1	-1	-1								
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	111	21	111	111	111	111	111	110	21	-1	-1	-1	-1	80	80	80	80	21	21	21	21	-1	-1	20	20	20	20	20	20	-1							
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	22	110	110	110	110	109	51	21	111	109	109	109	109	110	22	22	0	0	0	0	0	0	0	0	0	0	0									
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	21	21	21	20	20	20	21	21	21	21	21	21	21	21	21	0	0	0	0	0	0	0	0	0	0										
SIHY	HY02	50	50	50	0	0	0	0	0	0	0	0	0	0	0	30	30	50	50	50	50	30	30	30	30	30	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50											
SIHY	HY03	50	50	50	0	0	0	0	0	0	0	0	0	0	0	0	30	30	50	50	50	50	30	30	30	30	30	50	50	50	50	50	50	50	50	50	50	50	50	50	50											
SYPS	HY01	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	25	25	25	25	25	0	0	0	25	25	25	25	25	17	0	0	0	0	0	0	0	0	0											
SYPS	HY02	17	17	0	0	0	0	0	0	0	0	0	0	0	0	17	17	25	25	25	25	25	0	0	0	25	25	25	25	25	17	0	0	0	0	25	25	25	25	0	0	0										
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25	25	25	0	0	0	25	25	25	25	25	17	0	0	0	0	25	25	25	25	0	0	0										
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25	25	25	0	0	0	25	25	25	25	17	0	0	0	0	0	0	0	0	0	0	0											
TMGR	HY01	54	87	41	84	80	87	63	45	42	50	58	42	40	40	42	81	46	37	80	49	71	44	62	86	41	41	79	82	72	42	53	67	71	63	73	42	58	41	51	42	85	84	86	66	78	42	48				
TMGR	HY02	58	89	44	89	84	92	69	49	45	68	62	45	42	43	45	86	50	40	84	52	75	46	66	91	44	44	44	84	87	76	45	56	71	71	66	77	47	60	44	50	43	88	88	89	69	82	45	51			
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	81	85	85	85	84	85	85	84	83	84	85	85	85	84	85	60	60	31	31	31	30	82	81	33	32	0	0	0	0						
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	82	86	86	86	86	86	85	84	85	86	86	86	85	86	61	61	33	33	33	33	32	86	81	83	82	-1	-1	-1	-1							
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	-1	-1	-1	-1	-1	84	97	94	97	91	96	96	90	-1	-1	-1	96	91	97	97	97	99	0	-1	-1	-1	-1	96	90	103	98	100	95	-1	-1						
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	87	99	96	99	93	97	97	92	91	92	98	99	99	92	99	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4					
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	4	4	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	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6						
Total Hydro		916	983	855	845	831	846	799	700	690	1103	727	692	680	682	690	775	1027	1676	1639	1932	1984	1956	2003	2052	1875	1432	1361	1542	1757	1835	1881	1916	1895	1903	1246	1134	964	1100	981	1330	1324	1443	1352	1121	1043	971	836	763			
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	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	3	6	5	9	13	19	19	27	25	26	28	16	28	14	12	9	18	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	9	14	19	22	26	29	29	23	27	30	29	27	30	30	26	5	15	10	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	8	15	17	23	17	30	30	30	30	30	30	30	30	16	30	22	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	9	27	30	21	26	20	25	28	33	34	24	43	18	29	27	9	29	19	11	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	8	19	36	38	34	19	41	23	49	50	37	39	20	16	12	11	20	11	6	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	6	19	18	27	26	29	29	29	30	30	29	28	26	23	20	17	12	8	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	10	30	33	40	44	46	45	50	50	35	36	48	20	42	3	7	7	4	2	0</															

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																										
Total Co-Gen		11	11	9	13	10	12	10	13	8	11	11	10	7	5	7	10	10	6	10	10	11	4	7	6	8	7	9	9	8	9	5	9	8	12	5	8	10	7	5	7	7	9	8	9	8	10	9	13		
Total Gen		13540	13250	12963	12724	12633	12414	12280	12115	11986	11904	11835	11890	12023	12185	12299	12599	12988	14020	14531	15055	15314	15455	15579	15710	15579	15303	15379	15662	15905	16190	16243	16341	16434	16380	16099	15618	15301	14947	15098	15848	15889	15657	15571	15346	15188	15148	14916	14726		
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		-30	-30	-29	30	31	31	30	30	30	30	30	30	30	31	31	30	30	30	30	29	29	30	30	30	30	30	30	31	31	31	31	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
TIE-PLTG		12	24	42	-21	30	-5	12	-40	38	12	12	9	59	87	-14	1	-40	51	-28	24	19	-49	-50	6	38	-8	13	37	40	20	74	32	32	34	49	34	96	42	85	3	51	-16	-3	-36	6	9	-22	-5		
Interconnection		-18	-6	14	9	61	26	41	-10	68	42	42	39	89	117	17	31	-9	81	1	54	49	-19	-19	36	68	21	44	67	70	50	105	62	62	64	79	64	126	73	115	34	81	14	27	-6	36	40	8	25		
System Total		13570	13268	12960	12726	12583	12400	12251	12137	11930	11874	11805	11863	11946	12080	12294	12579	13008	13950	14541	15013	15277	15486	15610	15686	15523	15294	15347	15607	15847	16152	16150	16291	16384	16328	16032	15566	15187	14886	14995	15826	15819	15654	15555	15363	15164	15120	14920	14713		
SRev ST-Coal		550	610	617	654	667	921	943	935	936	937	686	680	656	615	603	622	622	418	390	275	218	168	176	174	160	161	170	176	187	187	166	161	158	164	159	161	224	486	242	70	14	313	304	311	327	332	317	307		
SRev CCGT-Gas		742	905	1034	1052	1085	1055	1043	1119	1142	1073	1080	995	1050	953	1013	794	658	541	226	541	530	521	482	603	600	496	502	600	345	283	429	426	345	328	342	496	536	522	541	406	517	547	315	292	357	325	432	340		
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 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
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 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
Syncon		889	889	889	889	889	889	889	889	889	274	889	889	889	889	889	889	802	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydro		86	19	98	8	22	6	53	152	162	364	125	160	172	170	162	78	124	502	564	520	468	496	449	400	577	733	502	321	357	466	571	536	557	549	833	719	463	302	270	309	467	348	288	246	273	158	293	89		
S.Reserve Total		2267	2423	2638	2603	2663	2871	2928	3095	3129	2648	2780	2724	2767	2627	2667	2383	2206	1461	1180	1336	1216	1185	1107	1177	1337	1577	1663	1586	1227	1087	1166	1123	1060	1041	1521	1750	1723	1835	1729	1123	1210	1395	1245	1274	1382	1427	1654	1625		