

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,196 MW
Distillate	0 MW
Total TNB	2,196 MW
Total IPP	18,010 MW
Total Co-Gen	0 MW
Total System	23,409 MW

Generation Mix

Type	MWh	Percentage
ST-Coal	41	0.01 %
Hydro	18,127	5.44 %
Gas	45,482	13.66 %
Total TNB	63,650	19.12 %
ST-Coal	196,958	59.15 %
LSS	2,367	0.71 %
Gas	68,223	20.49 %
Total IPP	267,548	80.36 %
Co-Gen	917	0.28 %
Total Co-Gen	917	0.28 %
Total Generation	332,115	99.75 %
PLTG	-812	-0.24 %
HVDC	-29	-0.01 %
Interconnection	-841	-0.25 %
Net Energy	332,956	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:	20:00:00 Hour
Total Set On Bus	16,998 MW
TNB Generation	3,392 MW
IPP Generation	12,266 MW
Spinning Reserve	1,309 MW
Maximum Demand	15,698 MW
Net Energy	332,956 MWH
Load Factor	88.38 %

Fuel Cost

Total Cost:	69,333,169.18 RM
Cost per Unit	20.86 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	183
Hydro	280
Syncon	519
Thermal	667
Total	1,649

Time Weather Temperature

Afternoon	Sunny	30
Morning	Hot	24

Gas Usage

Station	(mmscfd)
GLGR	31
TJGS	167
Total TNB	198
CBPS	55
NPRI	154
PGLA	114
PLPS	38
Total IPP	361
Total Gas	558
Total Gas Required	558

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	14300	13714	13237	12881	12418	12299	12316	12237	12136	13188	13944	14340	14210	13949	14289	14470	14587	14383	14234	14744	15698	15287	15037	14640

Daily MW Generation on Saturday

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	HY03	20	34	34	34	34	34	34	34	21	21	34	34	34	34	34	34	34	34	20	35	34	34	34	34
KNYR	HY01	56	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
KNYR	HY03	55	96	96	93	95	96	96	95	96	95	96	95	96	96	95	95	95	95	95	95	96	95	96	94
KNYR	HY04	56	97	97	94	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
LPIA	HY01	22	22	22	22	22	22	22	22	22	22	22	22	22	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	21	21	21	21	21	21	0	0	0	0	0
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	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1
PGAU	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
PGAU	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
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	49	50	50
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	30	30	30
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	25	25	25	25	25
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	25	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	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	34	34	33	35	34	35
TMGR	HY02	42	41	87	39	43	63	57	61	43	46	62	87	84	71	45	51	61	45	78	85	44	44	45	44
TMGR	HY03	45	37	83	35	38	59	54	56	39	43	58	81	79	67	40	46	57	44	77	79	41	39	40	40
TMGR	HY04	29	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	30	30	29	31	30	31
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	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	97	99	92
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		501	600	692	590	600	663	632	636	602	611	619	668	683	659	591	485	469	612	707	697	615	612	615	639
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
BDSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	6	8	9	11	13	16	18	19
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	9	13	14	22	28	20	22	26	16
BLSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	5	11	16	20	26	23	23	21	22
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	17	13	18	23	19	21	17	22	25
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	11	13	15	17	17	16	16	21
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	5	8	7	8	8	9	10	16	11
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	10	17	24	25	29	32	32	24	26
JSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	7	11	18	25	34	25	29	30
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	6	11	15	21	29	33	34	30	23
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	7	9	16	20	22	19	17	17
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	7	15	12	21	17	22	21	28	45
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	8	13	13	14	14	16	20	18
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	7	10	12	15	21	22	25	21
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	6	7	9	10	8	10	14	13
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	6	10	17	15	24	17	19	17
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	10	40	72	125	166	224	263	314	300	324	340
PCUF	CUFG	26	25	25	26	25	25	26	26	24	26	26	27	26	26	25	24	25	24	24	23	23	23	23	22
PCUF	CUFG	26	25	26	26	25	27	25	27	25	25	26	25	25	20	19	20	16	13	9	9	7	9	9	9
Total Co-Gen		52	50	51	52	50	52	51	53	49	51	52	52	50	51	50	46	45	47	42	39	34	33	32	33
Total Gen		14200	13913	13576	13423	13191	12993	12835	12647	12373	12274	12249	12227	12232	12261	12175	12010	12045	12689	13133	13462	13876	14065	14256	14380
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

Daily MW Generation on Saturday

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																											
TIE-HVDC		-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-29											
TIE-PLTG		-64	-70	-131	-40	-39	-53	-39	-57	-38	-52	-43	-61	-77	-50	-55	-72	-84	-47	-48	-72	-61	-66	-77	-22	39	-8	-15	-36	-32	-2	26	-9	-7	-16	71	39	39	45	0	-12	-2	-23	-4	-75	-60	-73	-70	-26			
Interconnection		-93	-70	-131	-40	-39	-53	-39	-57	-38	-52	-43	-61	-77	-50	-55	-72	-84	-47	-48	-72	-61	-66	-77	-22	39	-8	-15	-36	-32	-2	26	-9	-7	-16	71	39	39	45	0	-12	-2	-23	-4	-75	-60	-73	-70	-55			
System Total		14300	13990	13714	13470	13237	13053	12881	12711	12418	12333	12299	12295	12316	12318	12237	12089	12136	12743	13188	13541	13944	14138	14340	14409	14210	14070	13949	14190	14289	14517	14470	14641	14587	14695	14383	14321	14234	14255	14744	15628	15698	15530	15287	15277	15037	14893	14640	14448			
SRev ST-Coal		801	800	893	837	885	836	852	845	846	842	901	936	945	933	938	937	936	840	816	823	811	720	716	671	761	806	805	651	676	679	672	663	650	675	669	793	674	671	724	467	449	457	496	514	507	513	522	510			
SRev CCGT-Gas		255	139	136	307	217	150	167	145	220	171	147	146	136	140	155	159	156	177	168	152	148	188	158	201	245	214	169	190	190	166	224	177	181	142	246	141	191	164	145	145	161	199	203	149	181	61	151	193			
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		551	638	825	825	825	674	825	825	825	699	699	699	699	699	548	699	699	699	612	612	612	612	548	699	699	699	699	525	525	525	525	525	525	500	738	651	738	738	464	151	151	151	277	313	464	464	551	551			
Hydro		360	150	57	159	149	237	117	113	147	139	131	82	67	91	310	265	281	138	130	116	198	201	198	314	185	181	212	169	294	242	250	243	249	298	254	230	288	256	306	477	549	541	451	516	369	408	327	305			
S.Reserve Total		1967	1727	1911	2128	2076	1897	1961	1928	2038	1851	1878	1863	1847	1863	1951	2060	2072	1854	1726	1703	1769	1721	1684	1734	1890	1900	1886	1709	1685	1612	1671	1608	1605	1615	1907	1815	1891	1829	1639	1240	1310	1348	1427	1492	1521	1446	1551	1559			