

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,504 MW
Distillate	0 MW
Total TNB	2,504 MW
Total IPP	16,698 MW
Total Co-Gen	0 MW
Total System	22,627 MW

Generation Mix

Type	MWh	Percentage
Hydro	20,608	5.73 %
Gas	59,621	16.59 %
Total TNB	80,229	22.33 %
ST-Coal	209,465	58.29 %
LSS	3,340	0.93 %
Gas	64,920	18.07 %
Total IPP	277,725	77.29 %
Co-Gen	1,986	0.55 %
Total Co-Gen	1,986	0.55 %
Total Generation	359,940	100.17 %
PLTG	-118	-0.03 %
HVDC	719	0.20 %
Interconnection	601	0.17 %
Net Energy	359,339	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:	16:00:00 Hour
Total Set On Bus	17,812 MW
TNB Generation	3,908 MW
IPP Generation	12,746 MW
Spinning Reserve	1,074 MW
Maximum Demand	16,731 MW
Net Energy	359,339 MWH
Load Factor	89.49 %

Fuel Cost

Total Cost:	43,695,600.49 RM
Cost per Unit	12.13 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	353
Hydro	245
Syncon	625
Thermal	215
Total	1,438

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	51
TJGS	195
Total TNB	246
CBPS	49
NPRI	143
PGLA	84
YPKA	25
Total IPP	302
Total Gas	548
Total Gas Required	548

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	14987	14550	13701	13229	12998	12731	12710	12928	13097	14354	15299	15787	15693	15655	16263	16552	16731	16315	15491	15272	16500	16435	15947	15606

Daily MW Generation on Tuesday

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	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
KNRG	HY01	36	36	36	36	36	36	36	25	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY02	37	37	37	37	37	37	37	25	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY03	36	36	36	36	36	36	36	25	24	24	26	26	26	25	24	37	37	38	37	37	37	37	37	37
KNYR	HY01	100	100	100	100	101	101	99	101	101	100	101	100	99	100	58	58	99	101	100	100	101	100	100	100
KNYR	HY02	101	101	101	102	102	102	101	102	101	101	102	101	101	103	102	102	102	102	102	102	101	101	102	101
KNYR	HY03	101	0	0	0	0	0	0	101	101	100	100	101	101	101	101	101	101	101	101	100	100	99	101	
KNYR	HY04	100	100	100	100	101	101	99	101	101	100	100	101	100	99	100	99	99	101	100	100	102	101		
LPIA	HY01	16	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
LPIA	HY02	16	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
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	21	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1
PGAU	HY02	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-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
SIHY	HY01	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	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	0	0	0
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0
SYPS	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
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	80	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1
TMGR	HY02	44	44	47	65	52	84	42	46	92	45	79	74	56	85	48	39	45	40	46	47	55	46	56	
TMGR	HY03	82	30	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY04	83	30	31	-1	33	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	32	33	37	
UJLI	HY01	82	-1	-1	-1	92	94	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UJLI	HY02	88	-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	8	8	7	8	7	8	7	7	8	7	8	8	7	8	8	8	8	8	8	7	7	8	8
Total Hydro		1154	644	630	615	733	733	557	644	656	602	637	589	569	602	560	543	568	500	486	574	591	616	699	
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	2	4	6	12	16	18	22	27	27	29	5
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	13	18	22	26	29	30	30	30
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	11	16	21	25	29	30	30	30	30
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	16	16	28	33	38	42	45	47	45
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	15	22	30	34	38	42	44	46	48
JLSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	18	24	30	37	39	44	48	50	40
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	15	21	27	32	36	39	42	45	46
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	11	16	21	25	28	30	30	30	30
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	9	15	21	33	44	48	50	50	46
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	12	31	35	43	53	34	23	44	39
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	14	20	25	31	34	37	39	34	41
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	7	10	19	14	16	23	18	16	18
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	24	71	142	216	291	347	403	425	426	451	418
PCUF	CUFPG	47	48	48	46	47	47	46	46	47	47	47	47	47	49	47	50	49	51	49	49	53	46	48	45
PCUF	CUFG	34	35	35	36	35	35	35	35	35	35	35	35	35	36	35	35	36	35	36	35	36	34	36	35
Total Co-Gen		81	83	83	82	82	82	81	81	82	82	82	82	82	85	82	85	85	86	85	84	89	80	84	80

Daily MW Generation on Tuesday

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		15081	14755	14550	14086	13733	13523	13264	13169	12991	12794	12761	12736	12752	12899	12920	12949	13128	14009	14347	14928	15260	15568	15740	15683	15695	15707	15738	15940	16314	16536	16574	16611	16738	16761	16370	16014	15588	15255	15325	16157	16564	16582	16468	16254	15952	15788	15629	15470							
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	0	0		
TIE-HVDC		29	30	30	30	30	30	29	29	29	29	29	31	31	29	29	30	30	31	31	31	31	31	31	29	29	30	30	29	29	30	30	30	29	29	29	29	29	29	29	29	29	29	29	29	31	31	30	30	30	30	30				
TIE-PLTG		68	8	-27	-2	5	11	7	-4	-34	-30	3	-3	16	-4	-36	20	5	45	-34	-61	-67	-50	-74	-190	-25	-21	56	-81	24	17	-5	-33	-21	39	29	-7	70	70	26	84	38	-4	7	17	-24	-61	-4	0	0						
Interconnection		97	37	3	28	35	41	38	25	-4	-1	33	27	45	26	-5	49	34	76	-4	-30	-36	-20	-44	-159	5	8	86	-51	54	47	25	-2	10	68	58	22	100	100	56	113	67	25	36	48	8	-31	26	30							
System Total		14987	14721	14550	14061	13701	13485	13229	13147	12998	12798	12731	12712	12710	12876	12928	12903	13097	13936	14354	14961	15299	15591	15787	15845	15693	15702	15655	15994	16263	16492	16552	16616	16731	16696	16315	15995	15491	15158	15272	16047	16500	16560	16435	16209	15947	15822	15606	15443							
SRev ST-Coal		234	241	225	225	244	330	386	471	484	456	461	453	472	467	467	486	450	305	175	171	174	183	176	140	195	176	171	164	173	189	205	244	248	248	252	257	268	272	224	271	263	249	244	256	306	309	310	313	313						
SRev CCGT-Gas		225	480	720	1009	1068	1190	1161	1152	1339	1528	1721	1709	1507	1394	1326	1258	1420	1072	952	652	414	390	428	281	225	194	231	259	391	223	280	243	274	284	304	137	362	801	877	438	272	265	294	288	261	335	281	317	317						
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	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	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	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	0	0	0
Syncon		126	738	976	1063	789	789	976	976	976	976	976	976	976	976	976	987	976	825	976	976	976	889	889	489	428	889	802	802	615	428	428	615	302	302	302	651	889	825	976	976	615	615	615	615	802	889	825	825	825	825					
Hydro		565	363	139	67	223	223	126	91	79	133	98	66	86	53	95	111	87	306	169	81	64	151	196	348	389	81	218	114	197	346	351	170	255	224	329	286	376	438	298	161	265	275	312	307	242	143	212	201	201						
S.Reserve Total		1150	1822	2060	2364	2324	2532	2649	2690	2878	3093	3256	3204	3041	2890	2864	2842	2933	2508	2272	1880	1628	1613	1689	1258	1237	1340	1422	1339	1376	1186	1264	1272	1079	1058	1187	1331	1895	2336	2375	1846	1415	1404	1465	1466	1611	1676	1628	1656	1656						