

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,533 MW
Distillate	0 MW
Total TNB	2,533 MW
Total IPP	16,487 MW
Total Co-Gen	0 MW
Total System	21,863 MW

Generation Mix

Type	MWh	Percentage
Hydro	9,635	2.65 %
Gas	39,283	10.80 %
Total TNB	48,918	13.45 %
ST-Coal	202,659	55.71 %
LSS	1,509	0.41 %
Gas	110,510	30.38 %
Total IPP	314,678	86.51 %
Co-Gen	1,258	0.35 %
Total Co-Gen	1,258	0.35 %
Total Generation	364,854	100.30 %
PLTG	365	0.10 %
EGAT	5	0.00 %
HVDC	718	0.20 %
Interconnection	1,088	0.30 %
Net Energy	363,766	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:	16:30:00 Hour
Total Set On Bus	18,444 MW
TNB Generation	2,357 MW
IPP Generation	14,501 MW
Spinning Reserve	1,534 MW
Maximum Demand	16,836 MW
Net Energy	363,766 MWH
Load Factor	90.03 %

Fuel Cost

Total Cost:	76,288,906.72 RM
Cost per Unit	21.87 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	227
Hydro	291
Syncon	970
Thermal	311
Total	1,799

Time	Weather	Temperature
Afternoon	Hot	30
Morning	Sunny	24

Gas Usage

Station	(mmcsfd)
GLGR	53
PGPS	1
TJGS	108
Total TNB	162
CBPS	50
NPRI	164
PGLA	111
PLPS	39
Total IPP	363
Total Gas	525
Total Gas Required	525

Alternate Fuel Usage

Station	(mmcsfd)
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	14864	14187	13708	13308	12991	12672	12902	13075	13570	15291	16047	16557	16321	16199	16637	16700	16747	16680	15774	15953	16467	16129	15589	15126

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																											
JMAH	U001	632	607	582	554	507	506	504	505	453	456	357	351	357	355	355	408	455	648	677	655	681	695	699	697	662	656	655	657	696	696	695	696	695	694	696	654	644	589	606	695	695	697	698	694	601	608	606	556			
JMAH	U002	593	605	573	554	504	504	505	504	455	455	352	352	353	354	354	409	455	616	676	656	674	696	693	695	659	655	654	656	693	691	698	695	690	693	694	652	636	581	603	693	697	698	697	695	632	603	604	552			
JMHE	U001	914	901	905	900	847	848	821	820	821	823	820	822	820	824	819	824	820	917	971	969	975	970	970	971	975	970	972	968	973	972	974	971	976	975	972	975	974	973	971	973	976	977	972	977	975	976	978	974			
JMHE	U002	894	901	902	899	850	851	819	819	819	820	818	821	818	823	819	819	822	914	974	976	981	975	976	978	980	979	980	977	977	978	980	980	978	979	979	977	975	977	980	977	979	982	976	978	980	983	983	980			
JMJG	U001	667	673	673	670	676	668	676	669	672	672	671	669	668	665	671	668	674	671	668	666	666	672	668	664	673	669	669	671	674	668	670	672	672	673	675	671	678	676	668	667	673	666	673	667	674	663	663	663			
JMJG	U003	671	666	668	675	668	673	671	663	668	673	671	662	674	663	669	673	658	665	668	668	662	667	665	662	666	664	662	662	666	659	660	672	666	661	668	663	663	657	662	663	663	663	666	662	667	666	666	666			
JMJG	U004	962	904	897	900	880	850	823	823	823	823	822	823	822	826	824	824	822	877	933	965	967	969	967	965	968	970	968	971	971	977	977	975	977	971	970	970	969	972	971	969	969	971	972	972	973	972	972	972			
JMJG	U005	892	892	890	892	846	850	819	820	819	823	822	818	818	819	820	820	819	887	890	889	891	890	891	889	895	894	895	891	878	885	892	890	889	889	889	889	891	887	894	887	884	885	887	888	889	890	885	885	885		
PKLG	U003	155	153	153	154	155	154	156	152	156	156	156	154	154	155	154	155	154	153	154	154	218	278	280	281	280	279	280	279	280	279	279	279	280	280	280	280	280	280	279	280	278	280	279	280	281	239	151	151	152		
PKLG	U006	267	269	268	268	269	269	268	268	267	269	269	268	271	267	269	267	269	267	270	267	277	353	406	446	449	450	447	447	449	448	452	451	450	449	450	449	450	449	447	447	449	447	446	448	447	448	413	321	272	270	
TBIN	U001	599	599	562	545	483	501	448	450	399	401	348	399	401	401	402	402	451	545	600	600	625	638	689	687	658	639	639	639	638	668	690	690	692	688	689	650	604	551	551	597	601	600	601	600	600	598	546	497			
TBIN	U002	606	604	588	554	499	503	458	455	400	403	349	407	403	403	403	403	454	552	606	601	639	642	688	690	667	643	644	641	642	672	689	692	694	695	692	653	603	554	553	602	603	601	603	602	601	603	562	500			
TBIN	U003	600	599	586	550	512	501	446	453	403	402	353	403	402	401	401	401	453	548	605	603	643	643	692	690	676	643	643	643	643	673	688	693	691	688	693	652	602	554	553	605	604	600	600	601	599	602	546	498			
Total ST-Coal		8452	8373	8247	8115	7696	7678	7414	7401	7155	7176	6808	6951	6961	6955	6961	7072	7306	8262	8692	8668	8835	8964	9222	9312	9208	9113	9108	9102	9180	9266	9344	9356	9349	9335	9347	9137	8962	8704	8734	9050	9071	9069	9073	9066	8844	8631	8434	8165			
Total ST-Oil		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Total 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		
CBPS	BLK2	350	356	313	347	375	318	363	297	334	297	357	357	358	375	361	355	333	359	298	369	363	373	314	306	278	231	235	310	362	363	252	266	286	340	296	220	213	266	351	351	313	310	296	303	291	326	319	334			
EMPP	BLK1	767	711	711	711	710	710	710	710	710	711	709	709	711	710	711	710	710	710	708	712	712	707	708	698	707	709	710	709	710	710	710	713	709	707	707	704	712	712	713	708	711	707	708	708	713	710	708				
EMPP	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	83	209	209	212	347	375	473	575	752	767	768	768	767	748	750	748	759	759	756	752	753	755	757	759	757	759	762	761	763	764	760	758	762	761	759			
EMPP	BLK3	375	376	375	375	374	375	376	374	375	374	376	375	375	375	375	375	375	376	575	759	760	760	759	760	759	758	753	751	748	748	748	745	739	737	745	746	750	748	752	754	752	754	755	751	750	752	753	752			
GLGR	GT01	101	68	69	68	69	68	68	68	68	67	68	70	68	70	106	103	103	103	103	103	104	103	104	99	83	85	85	103	104	104	104	104	104	105	104	104	104	104	104	84	85	67	75	101	100	100	99	67	68	69	68
GLGR	GT02	106	67	68	68	68	68	68	68	68	69	69	69	68	68	68	105	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	84	85	68	75	100	100	100	101	68	67	68	68	
GLGR	ST1C	94	73	71	71	72	71	71	70	71	71	71	71	71	71	71	93	93	93	93	93	94	93	93	93	92	83	83	83	93	93	93	93	93	93	93	93	83	83	71	72	91	91	91	91	73	71	71	71	71		
NPRI	BLK1	514	518	523	518	527	519	520	519	520	512	520	523	518	525	518	522	520	514	512	521	520	523	517	516	508	511	513	522	520	517	518	518	524	521	513	512	511	522	524	523	518	520	514	518	518	524	520	521			
NPRI	BLK2	518	524	527	522	532	524	524	521	524	518	524	527	523	530	524	525	523	518	515	523	524	526	522	520	511	516	518	524	523	523	522	524	528	523	516	516	515	526	526	529	524	524	520	524	524	529	526	526			
PCGP	PGRG	598	603	609	601	614	603	602	601	601	596	605	607	603	613	601	607	604	597	595	605	603	609	602	599	587	591	594	608	604	601	598	603	608	603	599	599	597	597	605	608	607	600	601	598	601	601	611	606	604		
PGLA	GT11	215	217	218	216	219	218	217	216	216	216	217	218	217	220	217	218	216	215	214	218	218	217	216	193	186	187	190	217	214	214	215	216	215	213	186	186	170	190	199	217	217	214	167	168	169	169	171				
PGLA	GT12	220	221	224	222	224	221	222	222	221	218	221	224	221	223	220	223	221	218	222	222	222	221	220	199	191	191	191	194	221	219	220	222	220	218	190	189	174	194	205	221	219	171	172	173	173	173	175				
PGLA	ST10	238	237	237	238	240	237	239	237	237	236	239	239	237	238	238	237	237	237	237	237	237	237	235	238	240	238	236	228	217	217	219	237	242	240	241	241	241	238	220	219	207	209	219	238	239	239	207	203	205	205	207
PGPS	GT3A	70	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
PGPS	ST3C	30	29	0	0</																																															

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
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
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
HTRG	HY03	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
HTRG	HY04	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
KNRG	HY01	22	23	23	23	23	23	23	23	23	23	23	23	22	23	23	23	23	23	23	23	23	23	23	23
KNRG	HY02	21	21	22	21	22	21	21	21	21	22	21	22	21	21	21	21	21	21	21	22	23	23	22	22
KNRG	HY03	22	23	23	22	23	22	23	22	22	23	23	23	22	22	23	23	22	22	22	23	23	22	22	22
KNYR	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
KNYR	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
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNYR	HY04	62	61	72	62	100	62	60	60	59	59	62	72	61	100	61	79	68	60	58	77	75	92	60	60
LPIA	HY01	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	22	22	22	22	22	22	22	22
LPIA	HY02	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
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	18	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
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	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
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY04	61	67	74	44	84	43	80	42	48	41	65	68	80	85	78	79	84	67	42	84	52	69	42	42
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	-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	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
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		288	295	314	291	352	270	321	269	274	267	295	309	331	354	305	326	320	392	340	499	465	519	402	453
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	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	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	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	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	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	0	0	0	0	0	0	0	0	0	0	0
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total 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

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	
PCUF	CUFG	28	29	29	28	29	28	28	29	28	27	27	29	28	29	29	29	28	27	28	29	28	28	28	27	29	28	29	27	28	28	28	27	28	29	29	28	29	29	29	29	27	29	29	27	29	27		
PCUF	CUFK	25	25	23	25	26	24	25	24	23	23	24	25	23	24	24	23	24	23	26	24	25	25	24	25	23	24	24	24	23	25	24	26	25	24	24	24	24	24	25	24	25	26	24	25	24	24	24	23
Total Co-Gen		53	54	52	53	55	52	53	53	51	50	51	54	51	53	53	52	52	50	54	53	53	53	52	52	52	52	53	52	49	53	51	55	52	52	52	52	51	52	54	53	53	55	53	54	51	53	53	50
Total Gen		14936	14537	14173	14005	13719	13518	13354	13218	13020	12969	12723	12893	12904	13056	13087	13232	13543	14731	15292	15826	16065	16488	16575	16708	16374	16234	16247	16374	16734	16929	16793	16823	16821	16931	16753	16209	15955	15772	16011	16555	16527	16404	16222	15982	15658	15526	15204	14949
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		
TIE-HVDC		31	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	31	31	31	31	29	29	29	29	31	31	31		
TIE-PLTG		41	-18	-44	14	-20	10	16	6	-1	-1	21	-42	-27	-66	-18	-54	-57	0	-29	-50	-12	-54	-12	46	23	15	18	-29	68	69	63	21	44	44	44	82	150	93	28	31	30	30	65	26	40	31	48	48
Interconnection		72	12	-14	44	11	40	46	36	29	29	51	-12	2	-36	12	-23	-27	30	1	-20	18	-24	18	76	53	44	48	2	97	99	93	50	74	74	73	111	181	124	58	62	60	59	93	54	69	60	78	78
System Total		14864	14525	14187	13961	13708	13478	13308	13182	12991	12940	12672	12905	12902	13092	13075	13255	13570	14701	15291	15846	16047	16512	16557	16632	16321	16190	16199	16372	16637	16830	16700	16773	16747	16857	16680	16098	15774	15648	15953	16493	16467	16345	16129	15928	15589	15466	15126	14871
SRev ST-Coal		695	759	756	759	801	801	829	843	833	825	830	845	832	847	834	834	842	722	506	519	443	395	249	195	299	394	399	405	327	241	163	151	158	172	160	370	464	482	489	371	354	349	348	354	530	557	556	563
SRev CCGT-Gas		230	371	299	245	175	273	225	295	252	314	221	211	229	183	229	222	161	150	230	120	130	104	196	206	392	453	442	333	135	148	263	240	202	156	228	528	534	543	299	196	205	195	231	421	523	445	572	559
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	
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	
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	
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	
Syncon		1155	1155	1155	1004	1155	1155	1155	1155	1155	1155	1155	1004	1155	1155	1155	1155	880	1067	880	880	729	880	867	1155	1155	1155	1155	1054	779	966	966	966	777	966	966	1067	1067	1067	729	880	1155	1155	1155	1155	1155	1155	1155	
Hydro		162	155	136	310	98	180	153	181	176	183	155	141	270	96	145	124	130	246	211	239	273	370	286	335	241	235	234	186	306	409	317	349	345	420	339	334	300	166	218	432	318	178	226	191	190	190	190	185
S.Reserve Total		2242	2440	2346	2318	2229	2409	2362	2474	2416	2477	2361	2352	2335	2281	2363	2335	2288	1998	2014	1758	1726	1598	1611	1603	2087	2237	2230	2079	1822	1577	1709	1706	1671	1525	1693	2198	2365	2258	2073	1728	1757	1877	1960	2121	2398	2347	2473	2462