

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,429 MW
Distillate	0 MW
Total TNB	2,429 MW
Total IPP	15,634 MW
Total Co-Gen	0 MW
Total System	21,614 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,702	6.02 %
Gas	44,860	14.45 %
Total TNB	63,562	20.48 %
ST-Coal	189,805	61.15 %
LSS	2,853	0.92 %
Gas	53,719	17.31 %
Total IPP	246,377	79.37 %
Co-Gen	2,051	0.66 %
Total Co-Gen	2,051	0.66 %
Total Generation	311,990	100.51 %
PLTG	847	0.27 %
HVDC	726	0.23 %
Interconnection	1,573	0.51 %
Net Energy	310,417	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:	00:00:00 Hour
Total Set On Bus	16,417 MW
TNB Generation	4,076 MW
IPP Generation	10,721 MW
Spinning Reserve	1,542 MW
Maximum Demand	14,795 MW
Net Energy	310,417 MWH
Load Factor	87.42 %

Fuel Cost

Total Cost:	37,798,527.82 RM
Cost per Unit	12.11 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	326
Hydro	252
Syncon	763
Thermal	338
Total	1,679

Time Weather Temperature

Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	32
TJGS	150
Total TNB	182
CBPS	54
NPRI	147
PGLA	21
Total IPP	222
Total Gas	404
Total Gas Required	404

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	14795	14322	13672	13257	12631	12414	12168	11842	11124	11370	11717	11958	12216	12485	12751	12982	12976	12923	12667	13076	14505	14556	14184	13967

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																												
JMAH	U001	690	694	693	691	692	691	692	693	692	693	693	694	692	691	692	692	693	691	691	692	689	693	691	652	651	669	688	693	693	694	691																					
JMAH	U002	698	693	697	697	692	696	696	695	696	696	696	694	697	697	695	696	695	695	695	697	695	693	696	694	691	695	693	696	696	697	691	655	655	682	696	695	696	696	696													
JMHE	U001	975	977	982	896	850	798	802	802	798	800	798	799	798	750	747	748	747	748	751	750	749	748	748	802	851	850	848	851	848	848	848	845	859	981	982	981	980	978	979	886	889											
JMHE	U002	976	979	980	893	848	797	801	784	800	799	799	798	798	750	749	748	748	749	751	749	751	747	748	801	850	847	851	848	846	849	846	850	851	852	849	849	850	848	848	845	852	978	978	980	981	977	981	887	891			
JMIG	U001	674	671	672	672	667	670	675	671	672	671	673	671	672	672	673	671	670	671	672	671	673	671	672	674	672	671	672	673	672	675	674	672	671	673	669	673	670	672	672	672	669	675	674	671	671	671	671	671				
JMIG	U002	686	671	669	671	673	671	672	670	672	671	677	673	670	672	671	674	669	671	675	677	673	673	672	671	673	669	675	672	672	671	673	674	675	675	673	677	671	675	673	672	671	672	673	676	673	673	672	673	672	673		
JMIG	U004	977	978	977	959	900	844	810	806	809	810	807	807	806	795	761	759	758	759	761	759	760	757	759	779	836	848	848	850	848	849	850	850	852	851	850	850	850	850	850	848	862	908	964	980	977	980	977	979	958	901		
PKLG	U003	280	277	279	278	277	278	277	274	276	274	276	278	279	278	279	280	280	280	283	279	279	279	271	277	277	277	273	273	279	276	277	279	276	279	279	280	275	275	275	276	275	278	278	278	278	278	278	278				
PKLG	U004	279	280	278	279	279	278	278	278	274	268	277	278	281	280	277	276	277	278	282	280	276	276	279	279	284	283	281	278	275	276	274	274	278	276	272	279	279	274	276	280	277	276	279	276	279	276	279	276	278			
TBIN	U001	698	700	699	699	697	701	698	699	697	698	700	689	690	690	689	687	675	685	693	690	691	690	692	690	688	689	690	689	691	690	690	688	689	690	689	690	689	689	690	690	690	687	689	690	689	689	689	690	690			
TBIN	U002	699	707	700	705	702	702	701	701	703	702	699	692	692	692	690	691	691	692	690	689	691	693	692	692	691	693	692	691	694	693	692	688	692	691	695	690	692	691	690	695	692	693	691	695	691	693	691	693	691			
TBIN	U003	699	705	701	700	702	699	700	700	703	700	701	693	691	687	692	692	693	689	690	695	690	690	690	689	694	693	687	690	690	689	693	691	692	692	691	693	691	693	691	693	691	688	689	692	694	691	692	692	692			
Total ST-Coal		8331	8332	8327	8140	7979	7825	7802	7773	7791	7782	7796	7768	7766	7656	7614	7609	7601	7613	7631	7626	7626	7615	7615	7744	7895	7902	7918	7907	7898	7899	7903	7901	7909	7920	7904	7908	7906	7900	7914	7969	8211	8212	8255	8294	8296	8303	8091	8041				
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	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	0	0	
CBPS	BLK2	370	374	375	378	377	375	376	375	375	383	373	377	378	377	366	359	375	367	367	374	376	376	377	377	301	308	251	222	224	316	371	371	371	371	372	372	364	284	298	377	376	376	378	369	369	376	376	376				
EMPP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
GLGR	GT01	99	83	84	67	67	69	69	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
GLGR	GT02	101	85	85	67	68	68	67	80	95	95	95	96	96	96	96	96	96	96	95	96	96	96	95	96	95	96	95	95	96	96	96	95	96	96	96	95	96	96	95	96	95	95	96	95	95	95	95	95	95	95		
GLGR	ST1C	91	83	83	74	72	71	72	73	39	39	40	40	40	39	39	40	40	40	39	39	40	40	40	40	39	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40		
NPRI	BLK1	495	507	508	507	502	510	511	509	500	514	500	508	509	517	497	490	386	383	389	398	391	504	510	509	510	509	509	509	506	509	509	511	509	509	506	486	372	329	509	508	508	508	510	509	510	509	510	509	510	510		
NPRI	BLK2	496	508	510	511	502	510	512	508	502	515	503	510	511	518	500	491	305	384	325	390	407	382	472	390	377	510	390	457	470	509	513	511	467	511	436	416	338	336	432	509	511	508	511	505	499	510	514	510	510			
PCGP	PGRG	482	402	401	400	400	400	406	403	402	407	401	262	260	274	261	478	536	534	542	554	544	596	600	602	601	604	602	504	599	601	603	606	603	601	603	598	461	302	590	613	601	599	602	594	586	599	605	601	601			
PGLA	GT11	164	199	206	217	195	164	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
PGLA	GT12	166	202	209	219	198	172	171	156	154	159	155	156	158	164	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	
PGLA	ST10	217	237	225	238	229	210	92	89	89	90	90	90	90	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SPGP	BLK1	684	684	683	683	683	681	682	684	684	682	684	598	600	599	598	678	679	680	679	678	680	678	677	677	678	678	680	680	680	678	678	677	679	678	679	678	678	677	678	679	678	679	680	678	677	677	678	677	678	677		
SPGP	BLK2	361	360	359	359	359	359	358	360	359	358	359	615	616	613	614	298	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	GT1A	216	225	226	223	226	223	226	226	194	199	159	164	151	212	222	160	168	167	176	168	172	168	169	170	173	171	171	175	171	169	202	235	235	235	173	171	171	228	196	195	221	225	222	223	221	223	223	226	226			
TJGS	GT1B	207	216	215	219	213	219	216	216	186	191	153	148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TJGS	ST1C	244	244	244	244	244	244	241	216	193	191	83	81	94	113	89	89	89	89	89	89	89	89	89	89	89	89	89	89	92	92	92	92	92	95	120	123	123	92	92	92	235	221	217	245	245	245	245	245	239	243	243	
TJGS	GT2A	214	214	214	214	214	214	198	147																																												

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
KNRG	HY03	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNYR	HY01	100	101	101	100	100	101	101	100	100	101	101	100	100	100	101	101	101	101	100	101	99	59	100	101
KNYR	HY02	101	102	101	101	101	101	101	102	101	101	102	102	101	101	101	102	102	102	102	102	101	100	60	101
KNYR	HY03	101	102	101	101	101	101	101	101	101	101	101	101	101	101	101	102	102	102	102	102	101	100	58	101
KNYR	HY04	101	102	101	101	101	101	101	102	101	101	102	102	101	100	100	100	101	101	101	101	100	59	101	
LPIA	HY01	15	15	15	15	12	12	12	12	12	12	12	12	12	12	16	17	17	17	17	17	17	17	17	17
LPIA	HY02	15	15	15	15	12	12	12	12	12	12	12	12	12	12	12	16	17	17	17	17	17	17	17	17
MNOR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2
PGAU	HY01	21	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY02	21	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY03	81	21	21	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGAU	HY04	20	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY01	31	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	31	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	17	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	17	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	81	87	82	31	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY02	41	55	65	88	43	55	90	44	43	90	44	45	44	45	44	45	44	44	44	44	45	44	47	79
TMGR	HY03	80	85	85	32	31	32	32	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	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
UJLI	HY01	82	90	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UJLI	HY02	90	-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	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Total Hydro		1391	1038	841	760	637	603	638	557	556	609	557	558	561	607	555	548	555	555	582	558	557	558	557	557
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	1	2	7	13	19	21	22	12	26	26
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	13	17	23	17	30	30	29	28
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	17	16	10	19	30	30	30	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	10	12	17	24	24	20	41	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	5	10	14	17	21	29	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	9	20	22	38	44	47	50	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	15	19	35	48	32	32	39	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	9	19	15	37	39	45	44	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	9	16	20	24	27	30	30	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	10	24	4	39	37	20	36	42	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	12	15	14	44	46	25	28	26	
SSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	17	8	15	18	23	39	41	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	6	10	12	6	15	11	11	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	62	136	156	283	314	307	376	437	
PCUF	CUFG	48	50	49	49	48	48	51	49	49	48	49	48	47	49	49	50	47	50	48	48	48	48	48	48
PCUF	CUFK	30	36	36	35	35	36	36	36	36	35	37	36	37	38	38	40	39	39	38	36	40	39	38	36
Total Co-Gen		78	86	85	84	83	84	87	85	85	84	85	85	85	85	90	86	87	88	88	89	88	85	86	86
Total Gen		14875	14547	14348	14072	13716	13469	13273	13045	12732	12583	12483	12314	12241	12185	11928	11710	11221	11346	11429	11504	11793	11947	12043	
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 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																										
TIE-HVDC		30	30	30	30	30	30	31	31	30	31	31	31	30	30	30	30	30	31	31	30	30	30	30	30	31	31	31	31	31	31	31	31	29	29	29	29	30	30	29											
TIE-PLTG		53	6	-1	-8	17	-5	-10	5	74	22	43	46	46	35	59	101	69	75	31	17	48	60	58	56	42	51	27	83	58	13	38	35	-11	-14	40	79	104	57	69	7	27	9	30	20	54	1	-16	-2		
Interconnection		83	36	29	22	47	25	19	36	105	52	73	76	76	65	89	132	100	106	62	48	79	90	88	87	72	82	58	113	88	42	67	65	19	17	70	110	135	88	100	38	58	38	60	50	84	32	14	27		
System Total		14795	14514	14322	14053	13672	13447	13257	13013	12631	12535	12414	12241	12168	12123	11842	11581	11124	11243	11370	11459	11717	11860	11958	12094	12216	12352	12485	12610	12751	12901	12982	13009	12976	12962	12923	12790	12667	12681	13076	13927	14505	14593	14556	14378	14184	14046	13967	13775		
SRev ST-Coal		125	124	129	306	364	361	359	366	363	374	355	384	384	386	390	393	398	389	379	379	381	384	387	385	389	390	377	390	391	394	389	397	393	379	391	388	387	394	386	397	245	244	201	162	160	153	339	387		
SRev CCGT-Gas		484	479	474	481	552	613	535	579	804	998	705	927	778	776	806	465	672	605	642	557	552	421	318	399	483	342	518	472	467	332	242	193	236	189	354	377	715	621	660	322	158	159	152	170	181	164	154	154		
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		0	187	651	651	738	738	889	976	976	976	976	976	1063	1063	976	976	976	976	825	976	976	976	976	825	976	976	976	976	976	976	976	889	889	738	738	738	976	976	976	802	464	302	302	302	428	615	615	615		
Hydro		938	639	222	303	291	135	99	92	93	40	92	92	89	42	94	102	95	100	224	97	98	97	98	229	98	94	95	95	96	90	57	144	145	270	274	273	106	269	98	116	522	533	435	643	656	572	325	448		
S.Reserve Total		1547	1429	1476	1741	1945	1847	1882	2013	2236	2388	2128	2379	2227	2267	2353	1936	2141	2070	2070	2009	2007	1878	1779	1838	1946	1802	1966	1933	1930	1792	1664	1623	1663	1576	1757	1776	2184	2260	2120	1637	1389	1238	1090	1277	1425	1504	1433	1604		