

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,295 MW
Distillate	0 MW
Total TNB	2,295 MW
Total IPP	17,833 MW
Total Co-Gen	0 MW
Total System	22,597 MW

Generation Mix

Type	MWh	Percentage
Hydro	24,485	6.51 %
Gas	30,217	8.04 %
Total TNB	54,702	14.55 %
ST-Coal	253,666	67.47 %
LSS	2,673	0.71 %
Gas	65,542	17.43 %
Total IPP	321,881	85.61 %
Co-Gen	161	0.04 %
Total Co-Gen	161	0.04 %
Total Generation	376,744	100.20 %
PLTG	29	0.01 %
HVDC	724	0.19 %
Interconnection	753	0.20 %
Net Energy	375,991	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	18,988 MW
TNB Generation	3,622 MW
IPP Generation	14,370 MW
Spinning Reserve	989 MW
Maximum Demand	17,971 MW
Net Energy	375,991 MWH
Load Factor	87.18 %

Fuel Cost

Total Cost:	52,726,860.66 RM
Cost per Unit	14.00 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	511
Hydro	293
Syncon	441
Thermal	219
Total	1,464

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	47
SRDG	5
TJGS	137
Total TNB	189
CBPS	48
KLPP	53
NPRI	139
PGLA	106
SKSP	1
YPKA	23
Total IPP	370
Total Gas	560
Total Gas Required	560

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	15403	14621	14064	13597	13250	13106	13318	13397	13849	15513	16353	16968	16906	16807	17507	17907	17971	17500	16150	16105	16781	16713	16244	15821

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, October 5, 2020 1:59:57 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Wednesday

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	692	693	687	693	692	692	692	693	691	692	686	652	652	692	692	692	689	696	692	693	692	693	690	695	694	693	694	694	694	693	691	694	690	691	693	692	693	692	691	691	695	689	691	689	693				
JMAH	U002	692	696	694	696	688	694	691	696	694	691	696	655	653	695	694	693	693	696	691	696	693	694	694	692	697	698	694	694	694	690	694	695	696	693	697	690	694	695	694	696	689	697	698	693	692	696	695	695	
JMHE	U001	979	983	978	793	775	781	779	780	782	781	779	780	780	780	782	780	781	964	979	982	976	983	980	980	977	978	977	976	980	979	979	985	979	976	977	975	982	980	979	979	978	976	980	975	978	976	982		
JMHE	U002	979	982	979	980	778	787	780	780	781	780	781	780	779	780	782	779	781	986	980	982	980	983	978	980	982	980	979	977	981	981	980	981	980	979	981	976	980	977	982	981	981	976	979	975	976	977	982		
JMJG	U001	677	665	672	673	672	674	672	671	674	672	668	672	677	672	668	672	673	673	668	677	673	659	667	672	669	673	667	672	672	674	671	671	673	672	677	667	669	676	667	671	667	668	678	670	676	673	684	672	
JMJG	U002	677	673	672	676	668	662	673	669	673	671	676	673	682	671	672	671	672	672	665	672	662	673	677	667	675	677	672	673	673	676	671	673	673	673	673	673	672	672	675	671	673	673	661	651	598	648	659	666	669
JMJG	U003	666	659	668	665	671	666	665	667	665	667	666	668	662	666	662	665	666	666	663	664	664	665	667	660	667	667	664	664	668	666	666	666	666	664	671	660	665	669	665	665	659	665	666	662	661	666	662	662	
JMJG	U004	974	972	974	903	816	782	782	783	782	783	785	783	785	785	783	785	857	943	979	976	976	978	979	978	977	974	977	977	978	978	974	976	973	979	977	972	975	977	977	975	976	975	975	977	975	977			
PKLG	U003	278	278	278	279	277	280	277	275	275	277	276	276	275	275	276	276	277	276	277	277	276	275	275	275	275	274	275	274	275	276	274	275	276	276	276	277	278	278	281	281	278	276	278	278	278	279			
PKLG	U004	279	278	277	277	276	277	278	278	276	275	280	278	278	279	278	274	278	277	279	274	278	280	279	277	277	273	276	269	279	275	276	277	278	278	276	276	277	272	280	278	277	276	275	279	278	279	278		
PKLG	U005	167	165	151	190	224	304	360	413	471	468	467	468	465	468	470	477	468	468	467	468	466	467	469	470	470	467	466	466	465	466	465	466	466	468	466	468	467	466	468	468	466	468	468	465	466	468	466		
PKLG	U006	450	450	451	452	451	449	451	445	446	445	442	446	449	446	449	448	445	442	446	449	446	449	450	449	451	452	449	450	449	448	448	449	448	445	446	446	445	446	449	451	450	451	449	450	450	449	448	452	
TBIN	U001	690	691	690	690	692	691	692	690	691	690	690	691	691	692	691	691	687	691	689	691	691	689	685	690	691	691	691	689	692	690	689	687	690	691	689	692	689	692	690	690	690	690	691	689	691	690	690		
TBIN	U002	694	694	695	694	689	695	695	694	693	694	694	694	694	694	693	693	695	694	694	697	696	692	697	692	691	694	692	689	693	693	694	694	692	691	693	692	694	693	694	693	689	693	692	695	693	694			
TBIN	U003	690	690	692	692	690	691	691	691	693	691	691	690	691	689	692	691	689	689	690	694	693	692	691	692	691	692	691	693	692	691	692	691	689	690	691	690	692	692	691	692	691	692	691	690	689	691	690		
TBIN	U004	984	982	982	907	818	782	781	784	781	783	783	782	783	782	781	782	781	784	858	946	982	984	982	982	983	981	981	981	984	982	984	984	984	982	982	982	982	982	982	982	982	982	982	982	982	982			
Total ST-Coal		10568	10551	10540	10260	9877	9907	9959	10009	10066	10062	10061	9989	9993	10068	10061	10075	10054	10069	10578	10798	10857	10851	10865	10854	10865	10855	10853	10845	10850	10856	10861	10866	10848	10848	10851	10834	10864	10848	10873	10856	10842	10834	10781	10816	10841	10856	10862		
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			
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			
CBPS	BLK2	360	338	224	225	223	220	221	221	222	222	224	223	224	223	225	266	253	280	326	352	351	354	352	352	353	350	349	353	352	353	349	349	351	344	344	344	302	239	226	287	338	358	351	358	349	355	351	359	
GLGR	GT01	67	67	66	66	66	68	67	66	68	67	67	68	66	68	68	67	67	67	69	67	66	68	67	67	67	66	92	99	99	100	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99		
GLGR	GT02	67	67	67	66	66	67	67	67	67	67	67	66	67	67	67	67	67	67	66	66	67	67	66	67	66	66	94	98	98	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99		
GLGR	ST1C	73	72	72	72	73	72	72	72	72	72	72	73	72	72	72	72	72	72	72	72	72	73	73	73	73	73	85	92	91	91	91	91	91	91	89	73	73	73	79	74	73	90	92	91	92	91	92		
KLPP	GT13	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	152	152	151	153	155	157	155	157	125	125	121	123	121	78	80	83	92	146	115	116	111	76	0	0	0	0	0		
KLPP	GT15	134	133	125	125	129	129	129	129	128	128	129	129	136	132	130	126	134	134	139	135	138	138	138	138	136	140	134	134	136	137	122	122	121	119	120	79	76	81	81	140	120	121	118	118	126	132	125	125	
KLPP	ST17	106	61	57	57	56	56	53	53	55	55	53	53	57	57	54	57	57	57	57	57	57	57	133	137	133	133	133	133	134	134	121	125	125	126	117	90	86	90	90	134	121	120	122	104	84	84	55	55	
NPRI	BLK1	515	512	316	320	370	319	317	319	321	318	320	320	319	320	319	518	505	516	515	515	515	515	511	515	515	510	506	517	515	515	512	514	500	501	518	475	515	524	526	526	509	524	502	514	503	494			
NPRI	BLK2	517	514	401	386	377	349	351	356	334	392	332	364	440	404	363	334	340	519	505	517	518	515	515	516	512	515	517	510	507	516	517	515	515	518	503	503	382	329	415	519	520	521	505	520	499	514	500	515	
PCGP	PGRG	602	599	598	602	598	603	402	182	181	181	182	182	402	402	183	232	608	588	605	603	603	604	603	599	602	603	598	593	606	601	602	600	603	586	587	599	603	598	602	604	603	584	601	575	593	477	182		
PGLA	GT11	172	167	165	166	206	167	167	166	167	189	165	202	211	197	165	166	192	215	164	167	172	211	197	202	165	167	165	220	222	222	222	224	224	182	166	168	168	167	168	167	182	197	168	166	158	164	159	164	
PGLA	GT12	2																																																

Daily MW Generation on Wednesday

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
BSIA	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
BSIA	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
BSIA	HY03	23	23	23	14	12	12	12	12	12	24	24	24	24	24	24	24	24	24	24	23	24	24	24	24
CEND	HY01	9	9	9	9	9	9	9	9	9	9	10	10	10	9	9	9	9	9	9	9	10	10	10	9
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	63	62	63	63	62	62	63	63	63	121	121	122
HTRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	62	62	62	62	62	62	63	63	122	121	121	122
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	22	36	36	36	36	36	36	36	36	36	36	36
KNRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	24	37	37	37	37	37	37	37	37	37	37	37
KNRG	HY03	37	37	38	22	22	22	22	22	22	22	22	23	21	36	36	36	36	36	36	36	36	36	36	36
KNYR	HY01	99	98	98	98	101	99	99	99	99	0	0	0	0	100	101	93	100	100	101	100	99	101	98	98
KNYR	HY02	100	100	100	100	100	100	100	100	-1	-1	-1	-1	-1	101	100	95	100	99	99	99	99	99	99	98
KNYR	HY03	100	100	100	100	101	100	100	100	0	0	0	0	0	100	101	93	100	99	100	101	99	99	100	100
KNYR	HY04	100	99	99	99	100	100	100	93	66	94	65	95	101	72	94	61	72	101	53	82	100	101	99	100
LPIA	HY01	20	20	20	20	20	20	18	18	18	18	18	15	13	17	15	16	16	16	16	16	0	0	0	0
LPIA	HY02	20	20	20	20	20	20	18	18	18	18	18	15	13	17	15	16	16	16	16	25	27	27	27	27
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	6	6	3	3	3	3
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	111	111	111	21
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	112	112	112	20
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	21	21	21	21	21	112
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	25	25	25	25	25	25
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	25	25	25	25	25	25
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	83	83	83	83	83	83
TMGR	HY02	33	33	33	33	33	33	33	33	33	33	33	33	32	33	64	64	88	88	88	88	88	88	88	88
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	84	83	84	83	84
TMGR	HY04	41	0	0	0	41	41	0	41	41	41	41	41	41	41	39	31	63	63	84	85	85	85	85	85
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	92	92	88	92
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	91	95	84	
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	6	6	6	6	6	6	6	6	5	5	5	5	4	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		614	571	572	547	591	588	543	577	348	289	260	291	291	281	309	250	628	659	696	777	1007	1003	1110	1133
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	1	4	6	10	14	17	20	22	23	27	26
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	10	15	15	15	15	15	15	15	15
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7	19	24	29	30	27	40	38	38	46
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	13	15	28	27	37	33	44	39	36
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	9	8	10	13	23	26	28	30	16
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	12	14	19	22	31	25	32	45	50
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	13	14	26	29	38	44	28	33	9	48
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	15	21	23	27	34	38	39	39
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	11	16	24	31	36	34	41	45	47

Daily MW Generation on Wednesday

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				
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	13	23	29	39	42	40	45	39	41	46	49	51	33	51	36	39	43	15	19	5	1	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	1	5	6	12	18	22	26	28	33	28	34	36	40	39	23	8	6	3	2	5	9	4	1	1	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	10	54	99	156	228	267	325	328	367	378	351	385	363	401	319	313	289	266	186	116	93	39	13	4	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	3	3	4	4	2	4	3	3	5	4	4	3	3	4	3	3	4	4	4	4	4	4	4	3	4	3	3	3	4	4	4	5	4	4	3	3	3	6	3	5	3	3	3	5	3	4	3	4			
PCUF	CUFK	2	4	3	4	1	4	4	2	5	4	4	3	3	3	3	4	4	3	2	3	3	3	2	4	4	1	3	3	3	4	3	4	3	3	2	6	0	3	3	3	3	4	2	3	2	4					
Total Co-Gen		5	7	7	8	3	8	7	5	10	8	8	6	6	7	6	7	8	7	6	7	7	7	7	5	8	7	4	6	7	8	7	9	7	7	6	6	5	12	3	8	6	6	6	9	5	7	5	8			
Total Gen		15409	14948	14647	14326	14116	13851	13627	13477	13254	13194	13126	13216	13329	13542	13425	13259	13876	14840	15565	15962	16378	16671	16992	17146	16929	16786	16832	17210	17535	17870	17935	17942	17999	17960	17528	16809	16178	15916	16134	16808	16806	16828	16737	16582	16269	16184	15845	15508			
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	31	31	30	30	30	30	30	30	31	31	30	30	30	30	30	30	30	30	31	31	30	30	29	29	30	30	31	31	30	30	30	30	30	30	30	30	30	30	31	31	31	31	30	30	31	31	30	30	
TIE-PLTG		-17	-16	2	-6	29	-9	6	14	-19	0	-3	3	-11	2	5	8	4	11	30	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Interconnection		13	14	33	24	59	20	37	45	11	30	27	33	18	32	35	38	34	42	59	31	32	32	31	31	30	30	30	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	32	32	32	31	31	32	32	31	31
System Total		15403	14941	14621	14309	14064	13838	13597	13439	13250	13171	13106	13190	13318	13517	13397	13228	13849	14805	15513	15938	16353	16646	16968	17122	16906	16763	16807	17182	17507	17842	17907	17914	17971	17932	17500	16781	16150	15888	16105	16783	16781	16803	16713	16558	16244	16159	15821	15484			
SRev ST-Coal		190	207	218	492	491	444	402	476	421	422	425	494	489	416	509	504	517	508	383	257	198	204	190	201	190	200	202	210	205	199	194	189	207	207	202	207	204	221	191	207	182	199	213	221	274	239	214	199	193		
SRev CCGT-Gas		997	897	1251	1303	981	1278	1508	1740	1796	1791	1829	1696	1587	1440	1577	1839	1575	777	673	690	602	510	432	332	581	700	756	537	383	156	286	399	380	342	552	865	1148	1286	1153	521	490	454	666	727	740	630	858	1127			
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		
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	3	71	71	71	101	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		
Syncon		977	977	977	977	977	977	977	977	1078	1078	1078	1078	1078	927	927	1078	977	977	851	851	676	676	676	676	676	676	676	676	676	187	187	0	0	0	0	374	374	676	676	676	525	525	338	338	525	651	651	651			
Hydro		91	94	93	118	114	117	122	129	157	116	145	114	114	275	247	155	203	172	335	264	298	275	168	295	333	319	280	300	174	517	246	343	350	341	582	495	610	291	172	46	172	173	231	275	202	175	191	179			
S.Reserve Total		2255	2175	2539	2890	2563	2816	3009	3322	3452	3407	3477	3382	3268	3058	3260	3576	3272	2434	2242	2062	1774	1665	1466	1504	1780	1895	1914	1723	1438	1059	916	1007	990	961	1442	1938	2353	2444	2208	1425	1386	1365	1456	1614	1706	1670	1899	2155			