

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,522 MW
Distillate	0 MW
Total TNB	2,522 MW
Total IPP	15,588 MW
Total Co-Gen	0 MW
Total System	20,933 MW

Generation Mix

Type	MWh	Percentage
Hydro	22,739	6.43 %
Gas	40,200	11.36 %
Total TNB	62,939	17.79 %
ST-Coal	201,505	56.94 %
LSS	3,575	1.01 %
Gas	86,166	24.35 %
Total IPP	291,246	82.30 %
Co-Gen	159	0.04 %
Total Co-Gen	159	0.04 %
Total Generation	354,344	100.13 %
PLTG	-262	-0.07 %
HVDC	722	0.20 %
Interconnection	460	0.13 %
Net Energy	353,884	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	17,841 MW
TNB Generation	3,591 MW
IPP Generation	13,107 MW
Spinning Reserve	1,136 MW
Maximum Demand	16,701 MW
Net Energy	353,884 MWH
Load Factor	88.29 %

Fuel Cost

Total Cost:	42,738,759.88 RM
Cost per Unit	12.05 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	293
Hydro	534
Syncon	405
Thermal	134
Total	1,366

Time Weather Temperature

Afternoon	Thunder St	29
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	52
TJGS	206
Total TNB	258
CBPS	53
KLPP	86
NPRI	161
PGLA	105
PLPS	73
SGB3	37
Total IPP	515
Total Gas	773

Total Gas Required 773

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	14316	13660	13214	12845	12568	12344	12483	12667	12905	14536	15470	15931	15850	15724	16214	16638	16701	16315	15390	15157	16163	16356	15371	15069

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, January 5, 2021 10:27:10 AM
(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	692	693	694	692	694	694	693	693	693	694	692	693	692	693	692	693	692	696	689	694	693	692	693
JMHE	U001	978	900	857	802	798	800	801	800	799	802	799	801	800	799	977	979	979	978	980	980	982	981	976	980
JMJG	U001	666	668	664	669	668	666	668	667	668	669	667	670	668	669	671	667	668	667	671	667	668	618	623	624
JMJG	U004	977	933	877	820	760	712	714	714	714	713	714	714	714	714	768	854	939	977	975	974	973	975	976	976
JMJG	U005	799	797	803	801	804	804	801	801	799	801	798	800	800	800	801	799	798	801	801	801	801	800	801	800
PKLG	U003	144	146	146	147	146	145	146	143	145	145	184	214	265	283	282	283	281	277	280	281	280	279	280	278
PKLG	U004	284	281	280	276	274	269	282	280	273	274	277	274	277	278	275	275	199	210	255	278	279	275	275	276
PKLG	U005	468	468	466	467	468	468	466	468	467	468	467	466	466	469	470	466	468	467	470	464	467	470	468	470
PKLG	U006	449	447	448	448	447	449	450	449	447	448	450	448	450	448	449	445	444	447	447	450	449	448	449	447
TBIN	U001	692	687	689	691	686	689	686	688	691	687	688	691	685	686	692	684	690	689	687	689	692	688	691	682
TBIN	U002	691	691	692	694	687	692	692	695	692	694	692	689	695	691	693	689	693	690	692	691	693	692	690	694
TBIN	U003	694	693	693	693	692	696	694	692	694	692	690	692	693	691	694	692	690	694	692	691	693	692	693	694
TBIN	U004	982	982	903	812	803	804	801	805	802	804	805	804	802	803	803	802	803	854	945	984	983	984	983	982
Total ST-Coal		8516	8385	8211	8014	7925	7888	7895	7895	7885	7889	7926	7956	8003	8020	8033	8016	8020	8184	8417	8597	8640	8640	8635	8635
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
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
CBPS	BLK2	357	361	354	359	362	362	360	364	363	312	223	223	224	220	242	335	364	364	365	365	357	364	364	364
GLGR	GT01	67	67	67	69	67	68	68	68	68	70	68	68	68	67	66	67	69	67	68	90	101	99	99	100
GLGR	GT02	68	68	68	68	68	68	68	68	67	68	68	67	68	68	68	68	67	91	101	101	101	100	100	100
GLGR	ST1C	72	72	72	71	72	72	72	72	72	72	72	72	72	71	72	71	71	82	91	91	91	91	91	91
KLPP	GT13	138	76	70	69	69	75	74	71	71	71	74	71	71	75	64	69	138	140	141	140	141	143	143	
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	47	150	153	156	157	156	157	156	156	157	
KLPP	GT15	161	101	101	88	94	88	96	88	94	94	88	88	91	93	93	88	87	161	160	158	166	163	165	166
KLPP	ST17	139	115	90	85	86	86	86	84	84	85	85	86	86	85	85	85	82	192	192	201	201	201	201	201
NPRI	BLK1	509	514	505	515	515	518	516	515	514	512	512	512	514	515	508	493	515	514	514	520	514	505	515	514
NPRI	BLK2	508	512	502	513	511	516	514	512	511	511	509	511	512	513	505	490	514	512	514	513	511	503	512	512
PCGP	PGRG	593	602	589	602	602	607	603	602	604	603	596	601	603	603	594	574	603	602	603	602	591	603	604	603
PGLA	GT11	169	172	169	172	173	207	173	168	169	168	168	167	169	168	166	161	169	168	175	173	197	174	213	217
PGLA	GT12	173	176	173	177	176	211	177	172	172	172	171	173	173	171	164	172	172	179	177	200	178	217	219	220
PGLA	ST10	211	209	206	209	209	234	209	206	205	204	207	206	204	206	206	202	204	206	207	214	220	224	235	242
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	9	74	146	146	145	141	128	139	129	114	
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	135	145	134	120	140	119	
PLPS	GT13	122	125	122	124	125	124	124	124	125	124	122	125	125	124	125	117	122	123	132	132	132	128	126	
PLPS	ST18	60	59	59	58	59	59	59	59	59	58	58	59	59	58	56	57	112	144	144	185	205	209	214	
SGB3	GT31	109	110	106	111	111	111	110	110	111	109	111	111	111	111	106	109	111	142	139	139	138	137	136	136
SGB3	ST34	57	57	57	57	56	56	56	56	57	57	56	56	56	57	55	55	65	65	64	64	64	64	64	64
SPGP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	74	75	154	
TJGS	GT1A	227	206	194	204	230	231	188	179	184	152	161	144	142	153	189	133	159	168	162	217	229	225	230	
TJGS	GT1B	216	193	176	191	213	216	178	168	167	139	146	131	131	141	181	122	143	154	145	206	220	213	214	
TJGS	ST1C	245	221	210	214	221	238	228	206	192	178	199	177	177	183	213	170	177	188	177	236	246	247	250	
TJGS	GT2A	214	214	214	215	215	126	129	129	129	129	129	128	128	145	186	184	213	215	215	214	214	214	214	
TJGS	GT2B	212	212	212	211	211	124	125	125	125	125	125	125	125	125	138	183	183	211	211	211	211	211	211	
TJGS	ST2C	256	256	256	256	256	200	200	200	198	198	198	198	198	198	234	234	256	256	256	256	256	256	256	
Total CCGT-Gas		4883	4698	4572	4638	4701	4597	4413	4346	4341	4212	4146	4096	4107	4132	4266	4226	4467	5050	5203	5450	5567	5607	5785	5838
Total 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
BSIA	HY01	21	21	21	21	21	21	21	21	12	12	12	12	12	20	22	21	21	21	21	21	21	21	22	21
BSIA	HY02	24	24	24	24	24	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23

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	HY03	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
CEND	HY01	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	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	8	8	8	8	7	8	8	8	8	7	8	8	8	7	8	8	8	8	7	7	7	7	8	8
HTRG	HY01	125	125	125	124	124	63	63	62	0	0	0	0	0	0	0	61	124	124	124	63	62	63	124	62
HTRG	HY02	124	125	125	125	125	124	125	-1	-1	-1	-1	-1	-1	-1	-1	65	124	124	124	63	-1	-1	124	63
KNRG	HY01	35	35	35	35	35	35	35	35	22	22	22	22	35	35	35	35	35	35	35	35	35	35	35	35
KNRG	HY02	36	36	36	36	36	36	36	36	23	23	23	23	36	36	36	36	36	36	36	36	36	36	36	36
KNRG	HY03	34	34	34	34	34	34	34	34	35	35	35	34	34	34	34	34	34	34	34	34	34	34	34	34
KNYR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	59	101	101	101	101	99	-1	-1
KNYR	HY02	62	60	60	61	62	70	59	61	60	59	61	61	62	60	60	55	60	60	63	60	93	59	61	71
KNYR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNYR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0
LPJA	HY01	21	21	21	21	21	21	21	21	21	21	20	20	20	20	20	20	21	21	21	21	21	21	21	21
LPJA	HY02	21	21	21	21	21	21	21	20	20	20	20	20	20	20	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	4	4	4	4	4	4	8	8	8	8	8
PGAU	HY01	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY02	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	21	21	21	21	21	21	21
PGAU	HY03	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	22	22	22	22	19	24	24
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	21	21	21	21
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	49	49	49	48	48	0
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	49	49	49	49	30
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	0
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	17
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	17
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	0
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	0
TMGR	HY01	83	84	83	0	0	0	0	0	0	0	0	0	0	0	0	87	86	86	86	86	86	86	86	86
TMGR	HY02	90	90	90	91	44	55	45	44	44	44	45	45	47	45	45	40	45	90	90	90	90	90	90	90
TMGR	HY03	82	82	81	30	0	0	0	0	0	0	0	0	0	0	0	85	85	85	85	85	85	85	85	85
TMGR	HY04	83	83	82	33	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	86	86	86	86	86	86	86	86	86
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	96	88	96	95	93	-1	-1	-1
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	98	98	98	96	-1	-1
UPIA	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
UPIA	HY02	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Total Hydro		950	906	903	720	643	566	546	420	356	320	313	314	316	355	356	345	356	597	661	681	918	1040	1052	1061
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	6	8	11	15	19	21	23	24	25	26
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	10	12	12	24	29	31	32	25	13	32
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	12	16	14	26	28	30	30	30	30
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	10	17	23	29	34	37	41	44	48	25
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	6	13	21	27	32	36	40	43	44	48	49
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	13	15	18	19	24	17	27	28	28
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	18	8	20	35	41	44	46	45	48
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	5	11	17	24	29	35	37	34	44	44	48
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	9	16	23	26	33	36	39	41	43	43	45

Daily MW Generation on Wednesday

[illegible]