

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,961 MW
Distillate	0 MW
Total TNB	1,961 MW
Total IPP	18,068 MW
Total Co-Gen	0 MW
Total System	22,852 MW

Generation Mix

Type	MWh	Percentage
Hydro	12,081	3.42 %
Gas	33,972	9.62 %
Total TNB	46,053	13.05 %
ST-Coal	259,150	73.41 %
LSS	1,415	0.40 %
Gas	46,783	13.25 %
Total IPP	307,348	87.07 %
Co-Gen	168	0.05 %
Total Co-Gen	168	0.05 %
Total Generation	353,569	100.16 %
PLTG	-156	-0.04 %
HVDC	730	0.21 %
Interconnection	574	0.16 %
Net Energy	352,995	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:	14:30:00 Hour
Total Set On Bus	17,658 MW
TNB Generation	2,373 MW
IPP Generation	13,838 MW
Spinning Reserve	1,440 MW
Maximum Demand	16,235 MW
Net Energy	352,995 MWH
Load Factor	90.60 %

Fuel Cost

Total Cost:	43,159,254.88 RM
Cost per Unit	16.04 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	315
Hydro	370
Syncon	625
Thermal	274
Total	1,584

Time	Weather	Temperature
Afternoon	Sunny	32
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	46
TJGS	192
Total TNB	239
CBPS	13
NPRI	154
PLPS	47
Total IPP	214
Total Gas	452
Total Gas Required	452

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	14513	13834	13286	12912	12621	12492	12672	12766	13272	14899	15612	16004	15946	15528	16005	16159	16156	15744	15075	15702	15979	15671	15121	14788

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, December 1, 2020 9:48:16 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	694	692	651	553	553	532	582	583	531	503	502	502	502	552	658	694	694	693	695	694	693	694	693	695	694	693	695	695																					
JMAH	U002	693	695	646	553	553	532	585	585	538	503	505	504	502	502	499	557	666	692	693	696	694	693	694	692	695	692	695	695																					
JMHE	U001	778	783	779	780	781	780	780	777	781	782	780	773	781	776	782	780	780	779	934	981	982	982	980	981	978	978	980	781																					
JMHE	U002	980	782	780	779	781	777	780	778	781	780	778	777	781	777	781	780	781	780	942	979	980	979	981	978	977	976	779																						
JMJG	U001	673	598	587	497	473	444	449	449	450	444	453	451	493	501	499	498	541	615	670	661	665	674	672	665	662	668	671																						
JMJG	U002	682	596	584	513	496	441	450	448	451	450	449	450	450	450	448	453	481	570	611	666	673	669	678	668	673	672	676																						
JMJG	U003	667	594	575	491	465	459	458	455	457	454	456	455	456	454	457	453	491	577	660	667	663	662	666	671	662	663	664																						
JMJG	U004	723	706	705	705	702	704	702	704	702	705	703	704	703	703	705	705	703	704	712	742	777	834	877	933	958	959	958	708																					
JMJG	U005	700	702	700	698	699	700	698	702	700	696	700	702	700	700	700	698	705	778	796	796	794	796	796	793	798	793	797	702																					
PKLG	U003	278	282	281	286	276	209	207	205	206	205	206	205	279	280	281	279	280	279	280	278	280	281	281	280	282	280	282	284																					
PKLG	U004	277	278	274	277	272	207	204	207	203	209	207	206	257	275	276	272	275	276	277	277	287	277	276	272	288	281	276	274																					
PKLG	U005	467	468	467	459	374	281	264	270	268	269	269	269	267	271	343	405	417	408	405	408	408	464	468	467	462	466	469	474																					
PKLG	U006	445	447	448	449	450	450	451	449	448	448	449	449	449	449	450	451	452	447	449	448	448	448	449	448	449	450	448	449																					
TBIN	U001	691	692	690	691	691	688	690	690	691	691	692	690	692	691	559	502	500	501	501	500	500	501	501	500	623	689	689	689																					
TBIN	U002	694	690	692	692	694	691	691	693	692	689	692	690	692	693	692	690	693	691	690	689	692	691	692	692	690	691	691	692																					
TBIN	U003	690	691	691	689	686	694	691	690	690	690	692	692	690	689	692	690	691	691	690	689	691	691	691	691	691	691	691	692																					
TBIN	U004	837	782	782	782	782	783	782	782	782	781	782	783	782	781	784	783	781	782	836	926	982	983	982	983	982	983	984	889																					
Total ST-Coal		10969	10478	10332	9894	9728	9372	9464	9467	9371	9301	9315	9300	9475	9497	9446	9548	9895	10263	10832	11069	11176	11261	11333	11358	11530	11629	11631	11639	11661	11637	11634	11624	11626	11621	11618	11618	11588	11517	11533	11466	11358	11384	11375	11379	11351	11296	10814		
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		
CBPS	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	20	47	71	110	171	256	370	376	374	356	362	314	350	347	274
GLGR	GT01	68	68	67	68	68	68	68	66	69	69	68	67	67	67	67	68	75	100	100	100	101	100	99	72	66	68	66	67	98	101	71	66	66	67	68	68	68	69	67	68	66	68	66	68	67	68			
GLGR	GT02	68	67	68	68	68	68	68	68	68	68	68	67	68	68	69	68	68	77	101	100	100	102	100	100	71	67	68	68	99	100	69	68	67	68	67	68	67	67	68	67	67	68	66	68	67	68			
GLGR	ST1C	72	72	72	72	71	72	72	72	72	72	72	72	72	72	72	73	91	91	91	91	91	91	80	72	72	72	87	91	79	72	72	72	73	72	73	73	72	72	73	72	72	72	72	72	72	73			
NPRI	BLK1	515	522	516	520	517	523	517	516	518	517	518	513	514	513	515	511	516	515	515	512	515	515	508	515	503	512	511	509	514	509	508	515	515	515	505	515	515	447	511	512	510	512	506	510	500	446	441	530	
NPRI	BLK2	516	522	516	518	517	523	517	516	519	517	518	514	514	513	515	511	516	516	517	513	515	516	509	516	503	512	511	509	516	508	510	517	515	515	505	515	513	448	510	513	509	511	506	509	500	502	495	514	
PCGP	PGRG	602	609	602	610	601	613	604	601	606	601	603	601	599	599	599	594	602	602	601	600	601	602	592	603	585	598	594	594	602	590	593	603	603	601	588	600	601	603	603	606	602	605	596	602	588	589	579	605	
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66	148	149	148	144	148	114	120	115	116	117	135	135	120	119	120	99	0	0	0	0	0	0	0	0	0	0	0	0	0	
PLPS	GT13	125	130	124	125	125	127	125	125	124	125	124	125	125	125	125	121	125	123	122	123	121	122	105	108	104	106	106	106	106	106	106	106	106	108	108	118	123	125	126	125	125	125	125	125	125	124	125		
PLPS	ST18	59	58	58	58	58	57	58	58	57	57	57	58	58	58	57	58	59	56	143	144	142	143	144	132	134	133	133	132	142	141	133	133	133	136	59	59	57	58	58	58	58	58	58	58	58	58	58		
SPGP	BLK1	173	174	284	296	281	279	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	94		
TJGS	GT1A	205	224	185	216	206	235	199	234	175	184	172	193	166	205	196	191	227	221	198	192	209	208	184	215	182	196	181	202	196	220	198	217	226	228	183	207	141	161	184	233	220	231	216	233	151	159	126	137	
TJGS	GT1B	192	212	176	204	193	213	185	211	167	174	158	178	155	197	179	178	212	216	182	187	201	197	172	205	170	184	166	191	182	207	185	214	213	217	173	197	127	151	175	211	210	211	211	216	139	148	117	127	
TJGS	ST1C	240	241	200	230	206	238	218	221	193	202	196	208	192	216	224	210	223	243	231	214	235	233	212	238	207	214	226	238	225	240	244	247	215	235	186	172	196	229	240	244	229	238	208	192	170	170			
TJGS	GT2A	129	129	129	126	128	129	129	129	128	128	128	128	128	128	128	129	126	221	216	216	215	216	216	216	216	185	148	214	214	214	214	214	215	215	129	129	203	216	214	215	200	132	127	127	127	127	127		
TJGS	GT2B	126	126	125	125	125	125	125	124	127	124	124	124	124	126	126	123	219	213	212	213	211	211	211	211	181	144	210	212	212	212	212	212	212	126	124	124	200	211	211	212	198	129	124	126	126	124			
TJGS	ST2C	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	242	254	254	254	256	256	256	256	235	210	255	255	255	257	257	257	257	257	200	200	200	236	256	256	256	252	208	199	199	199	199		
Total CCGT-Gas		3288	3352	3320	3434	3362	3468	3243	3140	3018	3039	3004	3046	2980	3083	3071	3033	3134	3402	3463	3605	3664	3661	3559	3679	3407	3384	3241	3459	3479</																				

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		
KNYR	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		
KNYR	HY02	60	69	0	0	0	0	0	0	0	0	0	0	0	0	94	94	98	98	97	96	97	57	59	59	59	
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	99	99	61	61	60	62	62	64	60	60	60	60	60	60	61	61	60	60	60	60	59	59	59	59	-1	
LPIA	HY01	0	0	10	11	11	11	16	16	16	16	16	16	16	16	18	18	18	22	22	22	22	22	22	22	22	
LPIA	HY02	0	0	0	0	0	0	11	16	16	16	16	16	16	16	18	18	18	20	20	21	21	21	21	21	21	
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	5	5	7	7	8	8	8	8	8	8	8	8	
PGAU	HY01	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	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	0	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	31	51	51	51	51	50	49	50	30	30	30	30	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	30	0	0	50	50	50	50	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	30	50	50	50	50	30	30	30	30	30	30	30	
SYPS	HY01	17	17	17	17	0	0	0	0	0	0	0	0	0	17	25	25	25	25	25	17	17	17	17	17	17	
SYPS	HY02	17	17	17	17	17	17	0	0	0	0	0	0	0	17	25	25	25	25	17	17	17	17	17	17	17	
SYPS	HY03	0	0	0	0	25	24	25	25	17	17	17	17	17	0	0	0	0	23	22	22	22	17	0	0	0	
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	84	84	85	85	84	-1	-1	-1	-1	-1	
TMGR	HY02	46	54	45	61	46	88	45	48	54	51	46	46	46	45	46	48	46	0	0	0	0	0	0	0	0	
TMGR	HY04	-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	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	88	-1	-1	-1	-1	-1	146	83	-1	-1	
UPIA	HY01	6	6	6	6	6	6	6	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	5	
Total Hydro		332	328	222	239	231	274	231	241	235	232	227	227	227	248	222	202	253	550	543	544	660	850	998	976	822	
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	0	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	4	5	7	8	9	10	11	13	14	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	7	11	13	21	17	16	18	18	17	
BSLS	LSS1	0	0	0	37	0	0	0	0	0	0	0	0	0	3	7	10	13	14	14	16	15	16	21	18	13	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	5	7	9	11	14	14	14	15	16	20	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	2	3	7	8	11	15	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4	4	4	4	5	7	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	9	11	11	18	24	29	25	23	26	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	6	7	8	10	10	12	18	17	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	11	13	17	17	17	19	20	24	19	17	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	10	11	17	20	20	17	19	20	17	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	2	3	6	4	3	2	4	7	7	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	9	11	17	18	20	21	23	28	25	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	9	14	12	9	7	11	12	12	15	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	4	17	41	73	98	113	146	154	170	168	184	213	
PCUF	CUFG	3	4	4	4	3	3	2	3	5	5	3	2	4	2	4	3	3	4	4	4	5	3	4	3	4	5
PCUF	CUFK	3	4	5	2	3	3	3	2	3	4	2	2	3	2	4	3	2	4	3	3	4	3	2	4	3	2
Total Co-Gen		6	8	9	6	6	6	5	5	8	9	5	4	7	4	8	6	5	8	7	7	9	5	7	6	6	7
Total Gen		14595	14166	13883	13573	13327	13120	12943	12853	12632	12581	12551	12577	12689	12832	12747	12793	13304	14264	14918	15323	15620	15927	16049	16190	15933	
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
TIE-HVDC		30	30	30	30	30	30	31	31	30	30	30	30	31	31	31	31	30	30	30	30	31	31	30	30	30	30
TIE-PLTG		56	30	22	7	15	-15	5	28	-16	-17	31	82	-11	24	-47	3	4	-15	-8	-7	-20	-17	18	-9	-39	
Interconnection		86	60	52	37	45	16	35	59	14	14	62	113	20	55	-16	33	35	16	22	22	11	14	48	22	-9	

Daily MW Generation on Wednesday

	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																								
System Total		14513	14110	13834	13540	13286	13108	12912	12797	12621	12570	12492	12467	12672	12780	12766	12763	13272	14251	14899	15304	15612	15916	16004	16171	15946	15718	15528	15812	16005	16235	16159	16190	16156	16131	15744	15391	15075	14942	15702	16071	15979	15876	15671	15485	15121	14983	14788	14548
SRev ST-Coal		607	719	823	859	913	948	951	950	953	950	943	956	922	903	829	894	829	713	528	376	299	263	247	266	225	226	224	216	194	218	221	231	229	229	228	237	237	267	285	265	309	322	272	280	277	303	354	573
SRev CCGT-Gas		496	432	574	472	529	421	527	470	592	571	606	564	630	527	539	577	476	208	290	221	162	165	267	147	419	442	585	367	347	189	233	257	265	263	396	598	775	857	478	310	320	296	400	529	820	829	865	783
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		865	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	865	865	1016	1016	678	829	778	677	576	87	87	238	778	778	677	677	663	663	728	728	627	764	915	1016	1016	728	627	627	728	577	915	915	1016	1016	865
Hydro		253	106	140	122	130	87	132	123	129	132	137	137	137	267	268	137	161	352	248	251	311	247	738	760	612	362	306	352	355	375	377	242	244	312	373	250	111	120	171	349	365	299	466	218	239	250	207	260
S.Reserve Total		2221	2273	2553	2469	2588	2472	2626	2559	2690	2669	2702	2673	2705	2562	2501	2624	2482	1951	1895	1626	1449	1251	1339	1260	1494	1808	1893	1612	1573	1445	1494	1458	1466	1431	1761	2000	2139	2260	1662	1551	1621	1645	1715	1942	2251	2398	2442	2481