

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,322 MW
Distillate	0 MW
Total TNB	2,322 MW
Total IPP	19,163 MW
Total Co-Gen	0 MW
Total System	24,308 MW

Generation Mix

Type	MWh	Percentage
Hydro	21,219	5.68 %
Gas	30,028	8.04 %
Total TNB	51,247	13.73 %
ST-Coal	267,892	71.75 %
LSS	3,063	0.82 %
Gas	51,096	13.69 %
Total IPP	322,051	86.26 %
Co-Gen	169	0.05 %
Total Co-Gen	169	0.05 %
Total Generation	373,467	100.03 %
PLTG	-520	-0.14 %
HVDC	633	0.17 %
Interconnection	113	0.03 %
Net Energy	373,354	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:	15:00:00 Hour
Total Set On Bus	18,991 MW
TNB Generation	2,937 MW
IPP Generation	14,721 MW
Spinning Reserve	1,328 MW
Maximum Demand	17,705 MW
Net Energy	373,354 MWH
Load Factor	87.86 %

Fuel Cost

Total Cost:	51,426,174.33 RM
Cost per Unit	13.78 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	465
Hydro	285
Syncon	586
Thermal	198
Total	1,534

Time Weather Temperature

Afternoon	Hot	34
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	37
TJGS	180
Total TNB	217
CBPS	47
NPRI	135
PGLA	67
SKSP	14
Total IPP	262
Total Gas	479
Total Gas Required	479

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	15121	14412	13975	13543	13150	13045	13243	13177	13689	15411	16311	16976	16853	16655	17384	17705	17619	17019	15869	15723	16915	16849	16391	15883

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, September 4, 2020 10:36:04 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	689	691	694	693	692	695	692	650	600	601	603	601	694	694	652	666	693	692	692	692	693	692	695	689	693	692	693	
JMAH	U002	693	693	695	694	693	694	695	693	650	600	601	604	611	695	693	653	664	696	691	698	696	691	699	692	695	694	694	695	695
JMHE	U001	976	984	795	800	799	801	800	800	802	800	801	803	800	800	798	803	798	820	903	903	981	981	979	984	980	980	978	977	978
JMHE	U002	977	979	863	798	800	799	802	804	800	799	802	802	803	800	800	805	797	818	902	901	981	983	980	982	981	980	979	978	978
JMJG	U001	629	595	602	596	598	548	545	552	544	550	548	548	545	549	546	549	598	657	679	677	678	673	675	683	673	676	678	674	593
JMJG	U002	629	591	602	601	597	600	598	599	596	601	600	600	598	598	608	596	601	659	674	668	671	674	668	662	669	672	677	677	647
JMJG	U003	623	590	591	538	533	546	545	545	543	547	541	542	546	590	593	593	594	645	667	669	668	667	666	671	671	665	667	668	647
JMJG	U004	803	804	851	864	801	801	804	801	801	801	801	801	801	804	803	803	803	804	833	892	898	897	898	897	899	899	899	897	932
JMJG	U005	729	730	729	730	726	727	729	728	729	728	728	727	725	727	725	731	727	727	726	726	725	727	726	727	725	724	725	724	725
PKLG	U003	277	276	276	276	276	277	275	275	276	274	276	276	277	278	276	277	276	278	276	276	278	277	275	277	276	275	274	276	276
PKLG	U004	282	279	277	277	278	278	274	279	279	279	278	279	277	279	277	275	278	278	272	278	277	276	278	277	276	277	279	278	274
PKLG	U005	464	467	467	467	467	464	468	466	468	466	468	466	464	466	468	466	466	467	470	466	465	469	470	467	468	471	470	468	467
PKLG	U006	448	447	444	445	446	451	450	448	449	449	449	450	443	445	445	443	449	450	446	449	446	445	446	451	449	453	451	448	450
TBIN	U001	691	688	689	690	690	690	690	690	690	689	691	691	690	690	678	691	691	687	690	690	689	690	689	689	689	689	690	691	689
TBIN	U002	693	694	692	693	692	692	694	693	692	692	692	693	693	692	693	693	692	693	694	691	693	692	693	692	693	693	692	693	694
TBIN	U003	691	692	691	690	691	694	689	690	691	693	691	691	690	690	691	689	691	689	691	690	690	689	689	692	692	693	691	694	689
TBIN	U004	983	955	865	804	802	803	802	803	802	801	803	804	802	802	803	804	802	808	904	903	984	982	983	982	982	982	983	982	980
Total ST-Coal		11282	11153	10820	10657	10582	10557	10555	10558	10462	10373	10372	10379	10365	10599	10591	10525	10591	10871	11206	11271	11514	11505	11514	11526	11504	11517	11519	11511	11514
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
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
CBPS	BLK2	215	218	214	223	222	219	222	222	223	221	222	221	224	223	224	216	223	250	294	337	358	351	358	358	351	358	357	357	356
GLGR	GT01	95	95	94	95	95	95	94	95	96	95	96	95	94	96	95	96	96	96	94	95	96	104	74	67	66	67	67	66	66
GLGR	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	51	91	105	73	67	67	67	67	67	67
GLGR	ST1C	40	40	40	41	41	41	41	41	41	40	40	40	40	40	41	40	40	40	40	40	39	37	88	81	73	72	72	72	73
NPRI	BLK1	310	316	314	320	320	317	314	321	318	314	319	320	320	322	317	311	448	505	506	505	502	497	500	500	491	505	494	505	501
NPRI	BLK2	427	469	463	490	411	389	398	382	364	385	359	346	526	412	326	317	505	452	511	512	509	482	505	487	473	509	483	512	511
PCGP	PGRG	592	597	595	602	601	597	402	181	180	180	181	180	182	182	181	182	216	603	604	603	605	589	597	596	582	601	587	603	604
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	122	122	178	160	164	162	168	168	176	193
PGLA	GT12	183	185	184	186	187	184	184	187	186	183	186	186	186	192	190	180	184	186	187	186	193	239	239	208	189	194	190	197	196
PGLA	ST10	91	91	90	90	91	91	91	91	90	90	90	90	91	91	91	89	91	91	91	91	95	194	226	202	202	206	206	210	227
SKSP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	21	65	138	153	336	258	334	325
TJGS	GT1A	136	137	133	153	137	135	134	135	135	135	134	135	169	196	131	134	176	133	131	179	158	178	188	188	152	135	132	185	159
TJGS	GT1B	128	128	129	148	135	130	131	131	132	131	131	131	164	191	124	129	175	128	130	169	157	175	186	179	148	132	129	182	155
TJGS	ST1C	174	174	174	174	174	172	173	173	173	170	173	173	175	209	179	168	193	174	174	227	202	207	201	204	201	172	172	194	210
TJGS	GT2A	147	147	147	147	147	147	147	147	147	147	147	148	148	147	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148
TJGS	GT2B	144	144	144	144	145	145	144	144	143	143	143	143	145	145	142	145	145	162	164	161	163	213	211	178	172	144	144	144	211
TJGS	ST2C	211	211	211	211	211	211	211	211	211	211	211	211	209	209	209	209	209	223	223	223	223	254	257	244	236	212	212	212	256
Total CCGT-Gas		2893	2952	2932	3024	2917	2873	2686	2461	2436	2448	2432	2419	2673	2654	2397	2364	2849	3208	3316	3494	3469	3777	3981	3972	3894	3840	3770	4152	4197
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	0	0	0	0	0
BSIA	HY01	21	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12	21	21	21	21	21	21	21	21	21
BSIA	HY02	23	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13	23	23	23	23	23	23	23	23	23
BSIA	HY03	22	21	21	22	22	22	22	22	22	22	22	22	22	11	11	24	13	13	24	24	24	24	24	24	24	24	24	24	24
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9																

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					
HTRG	HY02	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	63	63	0	0	0	0	0	124	124	124	63	63	63	63	63	63	0	0	63	109	109	109	110	123	123	123	123			
KNRG	HY01	36	36	36	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36					
KNRG	HY02	37	37	37	0	0	0	0	0	0	0	0	0	0	0	0	0	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37				
KNRG	HY03	36	36	36	37	38	38	38	38	38	38	38	38	38	38	38	38	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36				
KNYR	HY01	99	63	77	84	82	0	0	0	0	0	0	0	0	0	0	59	100	100	99	98	98	97	96	96	96	99	100	100	99	99	99	99	99	99	99	99	99	98	98	100	100	100	100	100	99	99	99	99			
KNYR	HY02	99	59	71	85	71	80	67	75	-1	-1	-1	-1	-1	-1	-1	-1	101	100	100	100	99	98	97	97	97	100	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99			
KNYR	HY03	99	99	99	99	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	101	100	100	100	99	99	98	97	97	97	100	100	100	100	100	100	100	100	100	100	99	99	99	101	101	100	100	100	100	100	99	99			
KNYR	HY04	100	100	99	99	100	60	60	60	59	59	58	59	60	62	60	55	59	61	101	101	101	100	98	98	98	98	101	101	101	101	101	101	101	101	101	101	100	100	101	101	101	101	101	101	101	101	101	100	100		
LPIA	HY01	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	16	16	16	16	16					
LPIA	HY02	16	16	16	16	16	16	15	15	15	15	15	15	15	15	16	16	16	18	18	18	18	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	17	17	17	17	17	16	16	16	16			
MNOR	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	6	6	4	4	4	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
PGAU	HY03	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	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	31	31	31	29	0	0	0	0	30	30	30	30	30	30	30	30	30	0	0	30	50	50	50	50	30	30	30	30		
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	0	0	0	0	30	30	30	30	30	30	30	30	30	0	0	30	50	50	50	50	30	30	30	30			
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	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	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	36	37	82	82	81	82	82	81	82	81	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	66	-1		
TMGR	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85	83	85	85	81	85	83	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85		
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	35	35	82	82	80	81	78	82	80	82	82	82	82	82	81	82	81	82	81	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
TMGR	HY04	32	33	32	33	33	33	33	33	33	33	32	33	33	33	32	31	33	33	33	33	77	77	79	81	81	77	81	79	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81		
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	-1	-1	-1	-1	-1	-1	100	100	100	97	93	-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	-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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	5	5	5	6	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		898	601	625	533	438	306	291	320	222	221	222	223	223	226	213	206	225	653	732	897	1002	1120	1127	1129	1058	995	985	1007	1259	1261	1356	1296	1298	1273	1269	1175	1110	977	1047	1344	1549	1555	1522	1406	1276	1209	1189	1123			
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	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	1	3	6	9	13	16	20	22	24	25	17	26	26	26	24	18	13	3	2	4	3	2	1	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	1	8	12	18	21	24	28	27	30	22	30	30	30	30	19	18	17	25	17	13	2	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	5	11	17	25	29	34	43	37	33	38	44	9	47	6	8	32	5	27	26	17	7	4	2	0	0	0	0	0	0	0	0	0	0	0	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	12	19	25	30	34	38	40	42	44	29	41	45	42	39	30	34	25	23	15	10	4	1	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	1	5	8	13	17	19	23	25	27	29	30	23	21	28	17	24	15	21	19	17	9	7	2	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	1	2	7	18	23	34	31	32	43	34	18	28	38	44	44	15	41	37	31	26	22	10	4	4	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	1	5	11	17	25	34	25	40	46	30																									

Daily MW Generation on Wednesday

[illegible]