

Daily System Generation Summary on Wednesday

Wednesday, March 24, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,064 MW
Distillate	0 MW
Total TNB	2,064 MW
Total IPP	18,079 MW
Total Co-Gen	0 MW
Total System	24,122 MW

Generation Mix

Type	MWh	Percentage
Hydro	14,548	3.95 %
Gas	60,870	16.51 %
Total TNB	75,418	20.45 %
ST-Coal	239,899	65.07 %
LSS	1,505	0.41 %
Gas	51,808	14.05 %
Total IPP	293,212	79.52 %
Co-Gen	151	0.04 %
Total Co-Gen	151	0.04 %
Total Generation	368,781	100.02 %
PLTG	-643	-0.17 %
HVDC	719	0.20 %
Interconnection	76	0.02 %
Net Energy	368,705	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	18,959 MW
TNB Generation	3,849 MW
IPP Generation	13,369 MW
Spinning Reserve	1,733 MW
Maximum Demand	17,251 MW
Net Energy	368,705 MWH
Load Factor	89.05 %

Fuel Cost

Total Cost:	45,454,999.07 RM
Cost per Unit	12.32 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	637
Hydro	230
Syncon	732
Thermal	253
Total	1,852

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	53
TJGS	172
Total TNB	225
CBPS	46
NPRI	148
PGLA	66
YPKA	21
Total IPP	280
Total Gas	505
Total Gas Required	505

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	15016	14342	13983	13366	13048	12887	13163	13380	13760	15444	16325	16867	16746	16487	16935	17149	17135	16606	15675	15702	16567	16469	15941	15428

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, April 6, 2021 11:53:06 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	700	691	692	689	692	692	693	693	688	689	692	694	693	690	693	690	691	694	692	692	695	693	692	692	694	691
JMAH	U002	696	697	697	695	693	694	697	696	696	695	698	694	696	695	692	696	694	691	696	697	695	697	697	690	699	692	697	695
JMHE	U001	747	750	751	751	750	746	751	750	752	750	749	747	751	750	751	748	751	751	748	751	747	749	750	744	754	749	748	749
JMHE	U002	975	979	980	851	850	845	849	848	850	847	849	847	849	852	848	848	851	979	982	979	976	979	981	981	977	978	982	980
JMJG	U001	544	549	548	549	547	545	550	546	547	549	557	545	544	550	546	546	551	617	677	672	670	678	683	669	671	672	674	660
JMJG	U002	548	550	550	549	551	548	549	551	547	546	547	551	546	551	549	547	549	626	670	677	674	672	669	672	671	678	677	672
JMJG	U003	542	544	549	545	547	546	545	544	546	543	546	542	546	545	545	546	545	618	662	672	669	667	666	660	662	658	667	670
JMJG	U004	963	891	854	854	854	854	853	854	854	854	854	856	855	854	854	854	885	944	975	975	973	972	974	972	974	968	976	973
JMJG	U005	851	849	854	851	853	849	854	850	853	851	849	851	853	854	850	852	853	852	854	894	889	886	891	889	891	890	890	889
PKLG	U003	278	277	278	278	278	278	277	275	216	205	206	149	151	151	151	223	272	279	279	275	276	278	276	277	278	278	279	279
PKLG	U004	272	273	277	276	278	277	275	270	227	203	204	154	155	155	153	241	275	278	276	278	277	269	277	274	277	278	279	278
PKLG	U006	449	449	446	447	449	449	450	450	445	453	446	446	449	447	448	445	448	445	450	449	449	446	442	450	449	449	450	445
TBIN	U001	687	689	692	687	690	690	688	688	689	692	689	692	689	689	692	690	693	692	690	689	689	687	690	689	688	688	691	688
TBIN	U002	689	691	691	691	689	690	689	691	695	692	685	692	691	690	691	689	689	691	692	687	689	690	692	686	682	693	690	686
TBIN	U004	981	980	920	880	853	852	853	853	854	853	854	852	852	853	853	928	982	984	982	983	985	984	981	986	983	981	983	983
Total ST-Coal		9914	9860	9787	9595	9574	9552	9572	9558	9464	9426	9421	9305	9320	9331	9315	9467	9571	10019	10296	10373	10355	10347	10350	10333	10344	10365	10369	10332
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
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
CBPS	BLK2	285	225	220	224	224	218	218	225	224	216	226	227	228	223	223	218	217	223	223	331	368	368	367	360	360	359	365	356
GLGR	GT01	104	74	67	69	68	68	67	68	68	69	68	69	69	69	69	68	86	104	104	104	104	104	104	104	104	108	107	108
GLGR	GT02	105	71	68	68	68	68	68	68	68	67	68	68	68	68	68	86	104	104	104	104	104	104	104	104	108	107	107	108
GLGR	ST1C	93	80	72	72	72	72	72	72	72	72	72	72	72	72	71	79	93	93	94	93	94	93	94	93	94	97	97	97
NPRI	BLK1	522	475	469	476	476	388	391	395	320	317	306	319	323	375	370	412	526	523	529	529	533	532	534	532	528	529	527	529
NPRI	BLK2	526	481	475	400	320	311	313	316	319	319	306	318	325	376	369	413	529	529	532	532	538	538	540	536	530	532	533	535
PCGP	PGRG	594	454	262	262	262	262	261	261	262	263	261	262	265	268	262	261	260	261	261	402	600	600	600	600	600	600	587	600
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	136	214	
PGLA	GT12	158	160	159	161	160	157	158	159	161	161	155	161	163	163	161	158	158	158	161	161	166	163	167	200	198	198	167	165
PGLA	ST10	91	91	91	91	91	91	91	90	90	90	89	91	90	92	91	90	92	91	91	93	93	103	103	102	90	90	84	236
SPGP	BLK1	720	719	719	719	651	599	402	361	360	361	361	359	448	500	362	360	361	359	499	719	719	708	709	677	708	707	706	707
SPGP	BLK2	719	720	721	721	722	597	551	363	361	361	363	361	448	549	499	360	360	721	720	720	717	719	718	718	720	719	719	720
TJGS	GT1A	134	134	135	135	135	135	134	135	136	135	129	136	135	137	136	137	136	136	145	164	185	198	197	198	199	225	222	226
TJGS	GT1B	129	125	127	130	129	125	127	126	129	125	119	129	125	127	126	127	131	129	125	128	132	157	182	192	187	191	188	218
TJGS	ST1C	175	172	172	172	172	172	172	172	172	172	172	172	172	172	172	175	175	179	191	204	216	216	216	216	220	244	244	240
TJGS	GT2A	147	147	147	149	149	148	148	148	148	148	148	148	148	148	148	148	148	148	148	147	147	147	147	148	168	168	168	168
TJGS	GT2B	145	145	145	145	146	147	147	144	144	144	144	144	144	144	145	145	145	145	146	146	164	182	182	145	145	145	145	145
TJGS	ST2C	210	210	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	219	232	232	209	209	209	209	209
YPKA	GT11	66	66	67	66	67	67	67	66	67	67	66	66	66	67	67	66	67	66	67	108	123	126	103	103	102	67	66	66
YPKA	ST10	35	33	34	34	34	34	34	33	34	34	33	34	34	33	33	33	33	33	33	33	44	55	55	48	47	47	34	34
Total CCGT-Gas		4958	4582	4358	4302	4154	3867	3628	3410	3343	3337	3285	3342	3530	3794	3583	3524	3752	4108	4304	4719	5108	5215	5332	5390	5396	5304	5207	5309
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
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	0	0	0	0
BSIA	HY02	12	11	11	11	11	11	11	11	11	11	11	11	11	11	11	24	24	24	23	23	23	22	23	22	23	22	23	22
BSIA	HY03	0	11	10	10	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	23	22	22	22	22	22	22
CEND	HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY02	10	9	9	9	9	10	10	10	10	10	9	9	10	9	9	10	9	9	9	9	9	9	9	10	9	9	10	

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	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
KNRG	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
KNRG	HY03	24	25	24	24	25	24	24	24	24	25	24	25	25	24	24	37	37	37	36	36	35	35	22	22
KNYR	HY01	0	0	0	0	0	0	0	0	0	99	96	97	98	98	101	101	101	99	58	57	61	99	101	101
KNYR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	60	101	99	100	101	101	101	100	100	101	59	58	61
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	98	99	99	-1	-1	-1
KNYR	HY04	61	87	83	78	92	64	59	88	60	71	58	96	103	101	100	97	98	99	99	102	103	103	102	62
LPIA	HY01	14	12	10	10	10	10	10	10	10	10	10	10	10	7	9	14	15	16	19	19	16	16	16	16
LPIA	HY02	15	14	14	14	11	11	11	10	10	10	10	10	10	7	9	14	15	17	18	18	16	16	16	16
MNOR	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
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
SIHY	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
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	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	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
TMGR	HY02	0	0	0	0	67	45	45	73	46	57	42	81	91	91	68	45	44	45	87	87	92	91	91	88
TMGR	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
TMGR	HY04	40	70	58	60	-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	87	93	92	-1	-1	-1	183	-1	0	0
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	94	94	104	-1	-1	-1	0	0	0
UPIA	HY01	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
UPIA	HY02	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		200	263	243	240	259	197	192	270	193	216	207	264	282	339	456	474	422	524	695	704	709	963	999	1074
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	3	5	8	13	9	12	9	9	10
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	16	9	7	19	11	22	15
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	11	25	20	13	15	17	14	20
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	8	6	4	5	5	7	10	21
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	2	2	1	0	0	2	4	6
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	3
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	18	19	16	20	19	17	50	33
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	7	6	10	17	15	15	21
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	10	31	29	17	17	18	17	21
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	5	16	11	14	18	16	15
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7	8	6	7	7	9	12	11	12
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	8	12	17	16	17	15	20	24	0
SSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	9	11	13	20	18	12	10	14
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	5	4	2
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	28	58	93	153	151	137	161	161	207
PCUF	CUFG	2	4	3	3	4	4	4	3	4	3	3	3	3	5	3	3	2	4	5	4	3	4	5	4
PCUF	CUFK	3	4	3	5	4	2	2	2	3	0	3	2	3	3	3	2	3	4	3	4	3	3	4	2
Total Co-Gen		5	8	6	8	8	6	6	5	7	3	6	5	6	6	8	6	5	5	8	8	8	6	7	9
Total Gen		15077	14713	14394	14145	13995	13622	13398	13243	13007	12982	12919	12916	13138	13470	13362	13472	13778	14714	15396	15957	16331	16668	16849	16967
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 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	
TIE-HVDC		30	30	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	29	29	30	30	29	29	30	30	30	31	31	31	31	31	30	30	29	29	29	29	30	30	30	30	29	29	30	30	30	30	
TIE-PLTG		31	-15	23	2	-18	11	2	6	-72	27	2	-25	-55	-28	-48	-32	-12	-56	-77	-65	-24	-60	-48	-9	16	-27	-43	-60	-39	-46	8	-49	-37	22	-10	13	-6	-42	-60	0	19	-21	-50	-71	-38	-100	-90	-35
Interconnection		61	15	52	31	12	41	32	37	-41	58	32	5	-25	2	-18	-2	18	-26	-48	-36	6	-30	-18	20	46	3	-13	-29	-8	-15	38	-19	-7	52	19	42	23	-13	-30	31	49	9	-20	-41	-8	-70	-59	-5
System Total		15016	14698	14342	14114	13983	13581	13366	13206	13048	12924	12887	12911	13163	13468	13380	13474	13760	14740	15444	15993	16325	16698	16867	16947	16746	16530	16487	16715	16935	17251	17149	17078	17135	16979	16606	16159	15675	15538	15702	16488	16567	16512	16469	16242	15941	15708	15428	15073
SRev ST-Coal		338	401	468	587	582	597	586	597	627	625	646	638	628	631	632	638	591	481	235	158	176	184	181	198	187	166	162	199	175	171	286	282	281	284	276	269	271	307	274	280	346	334	351	356	356	351	361	359
SRev CCGT-Gas		805	1181	1405	1461	1609	1896	2135	2353	2420	2426	2478	2421	2233	1969	2180	2239	2011	1655	1459	1044	655	548	431	373	367	459	556	685	616	407	627	522	475	527	566	972	1396	1397	1340	740	550	649	714	718	869	1104	981	1217
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
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
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
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
Syncon		878	878	878	878	965	965	965	814	1091	1091	940	976	976	875	875	774	875	688	501	501	716	525	676	615	802	428	529	378	817	1004	428	802	802	802	990	990	1091	1091	940	817	817	817	817	666	904	904	991	
Hydro		144	92	112	115	96	147	152	225	150	127	287	79	61	105	88	171	122	207	223	214	114	225	38	149	197	381	265	363	130	149	203	215	180	225	385	386	334	358	439	297	327	335	272	250	546	211	192	178
S.Reserve Total		2170	2557	2868	3046	3257	3610	3843	3994	4293	4274	4356	4119	3903	3585	3780	3827	3604	3036	2423	1922	1661	1482	1326	1335	1553	1434	1512	1625	1738	1731	1544	1821	1738	1838	2217	2617	3092	3153	2993	2134	2040	2135	2154	2141	2437	2570	2438	2745