

Daily System Generation Summary on Monday

Monday, August 3, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,416 MW
Distillate	0 MW
Total TNB	2,416 MW
Total IPP	17,197 MW
Total Co-Gen	0 MW
Total System	22,436 MW

Generation Mix

Type	MWh	Percentage
Hydro	22,729	6.37 %
Gas	34,872	9.77 %
Total TNB	57,601	16.14 %
ST-Coal	214,920	60.24 %
LSS	2,341	0.66 %
Gas	81,528	22.85 %
Total IPP	298,789	83.75 %
Co-Gen	164	0.05 %
Total Co-Gen	164	0.05 %
Total Generation	356,554	99.94 %
PLTG	382	0.11 %
HVDC	-607	-0.17 %
Interconnection	-225	-0.06 %
Net Energy	356,779	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	18,193 MW
TNB Generation	3,338 MW
IPP Generation	13,729 MW
Spinning Reserve	1,118 MW
Maximum Demand	17,101 MW
Net Energy	356,779 MWH
Load Factor	86.93 %

Fuel Cost

Total Cost:	55,528,905.57 RM
Cost per Unit	15.58 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	295
Hydro	376
Syncon	433
Thermal	232
Total	1,336

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	50
SRDG	1
TJGS	196
Total TNB	247
CBPS	52
KLPP	67
NPRI	152
PGLA	93
PLPS	23
SKSP	34
YPKA	43
Total IPP	465
Total Gas	712
Total Gas Required	712

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	13823	13267	12639	12425	12137	11894	12025	12270	12929	14889	15708	16267	16260	16105	16696	16965	17101	16772	15499	15386	16670	16636	16199	15896

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, September 4, 2020 10:27:10 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Monday

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	HY02	22	23	23	23	12	12	12	12	12	12	12	12	12	12	12	12	12	23	23	23	23	23	23	23	23
BSIA	HY03	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	11	11	11	11	11	11
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
CEND	HY02	10	10	10	10	10	9	10	9	10	10	10	10	10	10	10	9	9	9	9	10	10	10	10	10	10
CEND	HY03	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	10	10	10	10	10	10	10
CEND	HY04	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	8	8	8	8	8	8	8
HTRG	HY01	124	125	125	125	63	63	-1	-1	-1	-1	-1	-1	-1	125	125	125	125	125	124	125	125	124	63	-1	-1
HTRG	HY02	124	123	124	0	0	0	0	0	0	0	0	0	64	124	123	125	124	124	123	125	124	124	124	64	63
KNRG	HY01	36	0	0	0	0	0	0	0	0	0	0	23	36	36	36	36	36	36	36	35	36	35	36	35	36
KNRG	HY02	37	0	0	0	0	0	0	0	0	0	0	37	37	37	37	37	36	37	37	36	37	36	36	36	36
KNRG	HY03	35	37	37	37	37	37	37	37	37	37	37	36	35	36	35	35	35	35	35	35	35	35	35	35	35
KNYR	HY01	95	100	100	77	86	87	99	76	100	65	76	65	63	86	67	100	57	82	100	63	61	89	100	101	80
KNYR	HY02	101	101	101	101	100	101	99	81	86	61	84	66	59	87	-1	-1	68	74	97	98	97	99	100	101	100
KNYR	HY04	102	101	101	103	101	102	100	100	102	101	-1	-1	-1	-1	-1	69	99	99	98	97	99	101	102	101	99
LPJA	HY01	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	21	21	21	21	21	21	21	21
LPJA	HY02	21	21	21	21	20	20	20	20	20	20	20	20	20	20	20	20	20	21	21	21	21	21	21	21	21
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	5	5	5	5	5	5	5	5
PGAU	HY01	-1	-1	-1	20	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	21	21	21	21	21	21
PGAU	HY02	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	60	21	
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-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	20	21	21	21	21	21	21	21
SIHY	HY01	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	0	0
SIHY	HY02	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	0	0
SIHY	HY03	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	34	0
SYPS	HY01	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	0	0
SYPS	HY02	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	0	0
SYPS	HY03	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	0	0
SYPS	HY04	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	0	0
TMGR	HY01	57	34	34	34	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	64	34	33	34	64	84	84	84	84	84
TMGR	HY02	59	69	74	2	0	0	0	0	0	0	0	0	0	0	0	33	31	33	64	87	33	33	33	33	33
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	62	32	30	32	32	82	32	32	31	32
TMGR	HY04	57	66	71	41	33	33	33	33	33	32	33	32	32	33	33	30	33	32	83	83	83	82	83	83	83
UJLI	HY01	-1	-1	-1	93	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	99	91	93	92	96	96	-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
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	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
Total Hydro		1157	868	879	747	540	521	466	424	456	394	327	297	309	340	233	266	421	768	876	862	847	892	1097	1266	1141
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	2	5	6	9	11	16	14	21	15	9
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	8	11	8	13	13	15	14	16	12
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	4	14	13	23	39	21	28	39	34	25
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	7	15	18	15	28	30	26	30	21	30
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	7	7	11	16	16	12	23	10	20	14	25
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	6	11	23	32	39	40	44	40	46	42
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	11	31	23	17	19	40	33	50	38	43
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6	15	20	20	42	40	38	44	31	39
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	3	7	9	23	32	43	41	48	46

Daily MW Generation on Monday

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	1	7	12	13	27	31	36	11	21	39	58	57	57	43	51	47	53	34	32	27	11	18	7	2	0	0	0	0	0	0	0	0	0			
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	14	12	16	17	19	21	21	22	23	25	30	24	19	25	14	19	18	9	8	6	3	1	0	0	0	0	0	0	0	0	0		
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	4	31	50	82	137	191	240	265	281	325	355	359	362	372	311	302	273	213	205	185	149	101	46	14	2	1	0	0	0	0	0	0	0	0		
PCUF	CUFG	2	3	4	3	4	3	3	1	3	4	3	3	4	3	4	3	4	4	4	4	4	3	3	3	4	4	4	3	3	4	3	3	4	3	5	4	4	4	4	4	4	4	3	4	4	3		
PCUF	CUFK	2	3	4	4	4	1	3	2	2	5	1	1	3	1	5	4	4	4	4	7	3	3	3	3	4	3	2	3	2	4	4	3	4	3	5	3	5	4	4	3	2	4	3	4	4	4	5	
Total Co-Gen		4	6	8	7	8	4	6	3	5	9	4	4	7	4	9	7	8	7	8	10	7	7	8	7	6	6	7	7	5	7	8	6	7	7	6	10	7	9	8	7	7	8	6	8	8	8	8	
Total Gen		13888	13484	13281	12836	12582	12549	12377	12160	12100	11901	11874	11860	12023	12206	12197	12312	12887	14143	14810	15331	15729	15958	16242	16413	16283	16129	16097	16320	16680	16896	16969	17054	17082	17132	16784	16055	15503	15245	15326	16021	16640	16611	16623	16474	16249	16205	15932	15659
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	
TIE-HVDC		30	31	31	-29	-29	-28	-29	-29	-28	-28	-29	-29	-29	-29	-29	-30	-30	-30	-30	-29	-29	-29	-29	-28	-28	-30	-30	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-30	-28	-28	-29	-29	-29	-29	-29	-29	-29	
TIE-PLTG		35	0	-17	41	-28	-6	-19	17	-9	-2	10	60	27	33	-43	-20	-13	-12	-49	-37	51	-38	5	22	51	43	21	23	12	6	42	38	18	103	50	20	41	1	-23	33	0	15	14	68	79	4	65	35
Interconnection		65	31	14	12	-57	-34	-48	-12	-37	-30	-20	31	-2	3	-73	-49	-42	-42	-79	-67	21	-68	-25	-6	23	14	-8	-5	-16	-23	12	9	-11	73	20	-9	12	-28	-52	4	-30	-13	-13	39	50	-24	36	6
System Total		13823	13453	13267	12824	12639	12583	12425	12172	12137	11931	11894	11829	12025	12203	12270	12361	12929	14185	14889	15398	15708	16026	16267	16419	16260	16115	16105	16325	16696	16927	16965	17053	17101	17067	16772	16072	15499	15281	15386	16025	16670	16624	16636	16435	16199	16229	15896	15653
SRev ST-Coal		494	489	594	500	505	500	508	506	505	496	514	493	507	494	494	495	502	504	507	412	290	242	203	209	204	189	198	189	205	200	196	196	178	187	198	197	207	186	190	178	192	197	203	202	204	180	195	194
SRev CCGT-Gas		121	115	112	163	197	215	328	625	877	1027	1318	1362	1284	1135	1107	1115	912	579	309	402	364	277	263	270	323	496	527	516	400	332	331	226	178	235	179	423	750	855	809	523	326	307	304	370	226	276	363	555
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		122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		764	764	764	426	700	851	977	977	977	977	1078	1078	927	1078	1179	1179	977	664	676	676	676	676	525	525	525	525	525	338	338	0	0	151	0	489	764	915	890	890	676	489	489	489	489	525	374	651	802	
Hydro		350	111	100	445	291	159	88	130	98	160	126	156	295	113	119	86	258	224	168	309	324	279	348	330	455	481	478	431	517	386	640	633	611	636	421	446	311	223	149	292	191	232	217	262	191	366	260	216
S.Reserve Total		1851	1479	1570	1534	1693	1725	1901	2238	2457	2660	3036	3089	3013	2820	2899	2875	2649	1971	1660	1799	1654	1474	1490	1334	1507	1691	1728	1661	1460	1256	1167	1055	1118	1058	1287	1830	2183	2240	2124	1669	1198	1225	1213	1323	1146	1196	1469	1767