

Daily System Generation Summary on Monday

Monday, August 24, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,235 MW
Distillate	0 MW
Total TNB	2,235 MW
Total IPP	18,573 MW
Total Co-Gen	0 MW
Total System	23,631 MW

Generation Mix

Type	MWh	Percentage
Hydro	23,553	6.44 %
Gas	24,192	6.62 %
Total TNB	47,745	13.06 %
ST-Coal	254,068	69.49 %
LSS	3,080	0.84 %
Gas	59,671	16.32 %
Total IPP	316,819	86.65 %
Co-Gen	142	0.04 %
Total Co-Gen	142	0.04 %
Total Generation	364,706	99.75 %
PLTG	-312	-0.09 %
HVDC	-610	-0.17 %
Interconnection	-922	-0.25 %
Net Energy	365,628	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	18,836 MW
TNB Generation	3,166 MW
IPP Generation	14,565 MW
Spinning Reserve	1,097 MW
Maximum Demand	17,816 MW
Net Energy	365,628 MWH
Load Factor	85.51 %

Fuel Cost

Total Cost:	53,329,494.23 RM
Cost per Unit	14.63 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	349
Hydro	397
Syncon	377
Thermal	185
Total	1,308

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	28

Gas Usage

Station	(mmcsfd)
GLGR	28
SRDG	4
TJGS	145

Total TNB 177

CBPS	48
NPRI	139
PGLA	60
SGRI	71

Total IPP 318

Total Gas 495

Total Gas Required 495

Alternate Fuel Usage

Station	(mmcsfd)
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	13942	13341	12901	12481	12169	11957	12138	12428	13294	15077	16075	16734	16692	16615	17227	17570	17816	17492	16239	15976	17119	17020	16565	16235

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, September 4, 2020 10:35:10 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
CEND	HY04	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
HTRG	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
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	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36	36	36	36	36	36	36	36
KNRG	HY02	24	25	24	0	0	0	0	0	0	0	0	0	0	0	0	37	37	37	37	37	37	37	37	37
KNRG	HY03	23	23	23	24	24	24	24	24	24	24	24	24	24	24	25	36	36	36	36	36	36	36	36	36
KNYR	HY01	87	89	91	90	94	97	92	97	0	0	0	0	0	0	62	98	97	100	96	100	100	99	99	99
KNYR	HY02	96	96	98	97	99	99	99	-1	-1	-1	-1	-1	-1	-1	59	61	98	97	100	97	100	100	100	99
KNYR	HY03	97	97	99	98	100	100	100	100	-1	-1	-1	-1	-1	-1	61	99	98	101	97	102	101	100	100	100
KNYR	HY04	97	97	99	98	100	101	100	101	60	60	59	60	61	61	59	60	62	99	98	101	98	101	101	101
LPIA	HY01	18	18	18	18	18	18	18	18	18	15	15	16	16	17	17	17	17	17	17	17	17	17	17	17
LPIA	HY02	18	18	18	18	18	18	18	18	18	15	15	16	16	17	17	17	17	17	17	17	17	17	17	17
MNOR	HY01	6	6	6	4	4	4	4	4	4	4	4	4	4	4	1	1	1	1	4	4	4	4	4	4
PGAU	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
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY04	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	23	20	21	21	21
SIHY	HY02	50	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31	31
SIHY	HY03	50	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31	31
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17
TMGR	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
TMGR	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	86	87	85	89	88	89	89	89
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	80	80	82	79	84	84	84	84	84
TMGR	HY04	30	32	31	31	33	33	33	33	33	31	33	33	33	33	33	82	81	83	80	85	85	85	85	85
UJLI	HY01	83	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	15	-1	-1	-1	-1	-1
UJLI	HY02	84	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	49	-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	5	5	5	5
UPIA	HY02	6	6	6	6	6	6	6	5	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		865	655	661	532	544	548	542	448	209	227	208	203	204	227	203	266	396	1101	1157	1176	1228	1379	1397	1493
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	2	3	6	13	18	19	23	25	25	26
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	12	18	21	9	23	6	29	27
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	18	22	39	41	40	30	48	45
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	16	17	29	31	34	37	40	39
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	9	13	17	20	22	25	27	28
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	17	23	30	26	39	43	40	41
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	13	29	35	38	38	38	38	38
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	15	21	28	10	36	39	41	34
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	13	20	27	32	37	37	45	44
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	13	29	30	21	49	46	40	58
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	8	19	17	26	31	35	37	39
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	41	93	163	245	310	288	382	376	411
PCUF	CUFG	3	4	3	2	4	4	4	3	4	3	2	3	3	3	4	3	3	3	3	2	4	3	5	3
PCUF	CUFK	4	3	2	3	2	3	4	1	4	2	2	5	4	2	2	4	2	4	2	0	0	0	0	0
Total Co-Gen		7	7	5	5	6	7	8	4	8	5	4	8	7	4	5	7	6	7	5	5	3	2	4	3

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																										
Total Gen		13956	13631	13351	13000	12835	12605	12435	12248	12130	12088	11925	11980	12078	12316	12405	12582	13169	14344	15075	15499	16093	16387	16666	16820	16575	16589	16530	16832	17180	17481	17523	17639	17739	17726	17453	16732	16209	15885	15922	16782	17082	17062	16953	16815	16496	16376	16165	15861		
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	0	0	
TIE-HVDC		30	30	30	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29
TIE-PLTG		-9	-40	-12	7	-30	-25	-10	13	-4	49	4	-14	-24	58	13	-10	-90	24	34	-17	54	-33	-31	8	-81	-27	-49	-23	-11	-22	-12	-62	-41	-11	-2	-29	6	-14	-17	-9	-1	24	-30	-22	-32	-42	-34	1		
Interconnection		21	-10	17	-21	-59	-54	-39	-15	-32	20	-25	-43	-53	28	-16	-39	-118	-5	5	-46	25	-63	-61	-21	-110	-56	-78	-52	-40	-50	-40	-91	-70	-41	-32	-58	-23	-43	-47	-38	-30	-6	-60	-52	-62	-71	-63	-28		
System Total		13942	13648	13341	13028	12901	12666	12481	12270	12169	12075	11957	12030	12138	12295	12428	12628	13294	14356	15077	15552	16075	16457	16734	16848	16692	16652	16615	16891	17227	17538	17570	17737	17816	17774	17492	16797	16239	15935	15976	16827	17119	17075	17020	16874	16565	16454	16235	15896		
SRev ST-Coal		593	625	623	632	622	613	617	626	623	706	710	710	627	610	625	622	619	564	363	253	153	159	160	163	169	155	162	159	171	164	186	182	172	169	190	189	185	193	185	171	174	182	178	170	175	191	167	208		
SRev CCGT-Gas		310	373	477	697	883	928	1015	1226	1115	1084	1230	1170	1239	1029	1137	1039	611	479	450	513	669	478	312	244	477	624	659	625	393	170	238	317	341	294	325	542	942	1169	1096	357	309	293	235	228	343	285	455	566		
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	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	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	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	0	
Syncon		603	977	977	977	977	977	977	1078	1179	1028	1179	1179	1179	1028	1179	1078	977	676	676	676	489	676	525	338	338	525	676	676	489	302	151	151	302	151	338	676	802	802	802	802	302	302	151	302	515	702	702	889		
Hydro		494	140	134	123	111	107	113	106	144	277	145	150	149	277	150	188	259	70	139	120	255	117	250	341	384	237	108	104	277	366	502	499	283	491	443	315	283	326	323	325	571	579	813	590	524	385	299	186		
S.Reserve Total		2000	2115	2211	2429	2593	2625	2722	3036	3061	3095	3264	3209	3194	2944	3091	2927	2466	1789	1628	1562	1566	1430	1247	1086	1368	1541	1605	1564	1330	1002	1080	1149	1098	1105	1296	1722	2212	2490	2406	1655	1356	1356	1377	1290	1557	1563	1623	1849		