

Daily System Generation Summary on Monday

Monday, March 1, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,211 MW
Distillate	0 MW
Total TNB	2,211 MW
Total IPP	15,503 MW
Total Co-Gen	0 MW
Total System	21,002 MW

Generation Mix

Type	MWh	Percentage
Hydro	27,887	7.54 %
Gas	46,976	12.71 %
Total TNB	74,863	20.25 %
ST-Coal	201,390	54.48 %
LSS	3,364	0.91 %
Gas	89,150	24.12 %
Total IPP	293,904	79.51 %
Co-Gen	228	0.06 %
Total Co-Gen	228	0.06 %
Total Generation	368,995	99.82 %
PLTG	1,111	0.30 %
HVDC	-1,761	-0.48 %
Interconnection	-650	-0.18 %
Net Energy	369,645	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	19,009 MW
TNB Generation	3,858 MW
IPP Generation	13,838 MW
Spinning Reserve	1,306 MW
Maximum Demand	17,690 MW
Net Energy	369,645 MWH
Load Factor	87.07 %

Fuel Cost

Total Cost:	48,328,302.79 RM
Cost per Unit	13.09 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	619
Hydro	293
Syncon	314
Thermal	176
Total	1,402

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	58
PGPS	1
TJGS	101
Total TNB	160
CBPS	51
KLPP	84
NPRI	148
PGLA	108
PLPS	74
SGB3	50
YPKA	77
Total IPP	592
Total Gas	752
Total Gas Required	752

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	14682	14018	13453	13089	12793	12668	12758	12924	13375	15204	16150	16662	16689	16369	17117	17690	17682	17316	16061	15749	16984	17101	16563	16157

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, April 6, 2021 11:36:02 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Monday

[illegible]

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		
YPKA	GT21	124	123	120	66	67	67	66	67	67	66	67	67	66	67	67	67	67	114	122	121	121	119	120	121	117	118	120	121	121	120	118	121	121	119	117	119	118	66	66	120	119	120	119	120	119	120	120	120	
YPKA	ST20	60	57	58	39	39	39	38	39	39	39	39	39	39	39	39	39	39	51	59	59	59	59	59	59	59	59	59	60	60	59	59	60	59	59	58	59	58	40	39	59	59	59	59	59	59	61	59	60	
Total CCGT-Gas		5604	5283	5072	4683	4580	4404	4233	4025	3832	3818	3826	3815	3828	3822	3805	3921	4049	4843	5090	5587	5868	6141	6141	6335	6153	6046	5961	6508	6537	6881	7144	7242	7243	7217	7021	6618	6180	5806	5930	6459	6970	7046	7020	7020	6874	6837	6589	6364	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
BSIA	HY01	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	22	21	22			
BSIA	HY02	22	22	23	22	22	22	23	23	23	23	23	22	23	22	22	22	23	22	22	22	22	22	22	22	22	22	22	22	23	23	22	23	23	23	22	23	23	23	23	23	23	23	23	23	23	23	0	0	
BSIA	HY03	22	23	23	23	22	22	23	23	23	23	23	23	23	23	22	22	23	23	22	22	22	22	22	22	22	22	22	22	23	23	22	23	23	22	23	22	23	23	23	23	23	23	23	23	24	23	24		
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	9	10	10	9	9	10	10	10	9	9	10	10	10	10	10	10	10	10	10	10	9	10			
CEND	HY02	10	10	10	10	10	10	9	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9			
CEND	HY03	10	10	10	10	10	10	10	10	10	10	9	10	10	9	10	10	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9			
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	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
HTRG	HY02	124	125	125	125	125	124	123	125	124	124	124	63	126	125	125	125	124	125	125	125	124	124	124	124	125	124	125	125	124	124	124	124	125	124	125	124	124	125	125	124	125	125	125	125	124	125	124	125	
KNRG	HY01	23	23	23	23	22	23	23	23	23	23	23	23	23	23	22	23	37	37	37	37	37	37	36	36	37	37	37	37	37	36	36	37	37	36	37	36	37	37	37	37	37	37	37	37	37	37	37		
KNRG	HY02	23	24	23	23	23	23	23	23	24	23	24	23	24	23	24	23	22	24	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	
KNRG	HY03	24	25	24	24	24	24	25	24	25	24	25	25	25	25	24	24	25	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	101	102	101	101	100	100	101	101	101	101	101	101	101	101	101	100	101	101	101	101	101	101	101	101	101	100	101	101	101	101	96	96	101	101	100	100	100	101	100	101	101	101	101	101	101	101	101	101	
KNYR	HY02	101	101	101	101	101	101	101	101	101	101	101	61	101	101	101	100	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	100	101	100	101	101	100	100	100	100	101	101	101	101	101	101	101	101	
KNYR	HY03	101	102	101	101	101	101	101	101	101	101	101	101	102	102	101	101	100	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	100	101	101	100	100	100	101	101	101	101	101	101	101	101	-1	-1	-1
KNYR	HY04	101	102	101	101	100	101	101	101	101	101	101	101	101	101	101	100	101	101	101	101	101	101	101	101	100	100	100	100	101	101	101	100	100	101	101	100	100	100	101	100	101	101	101	101	101	101	101	101	
LPJA	HY01	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16		
LPJA	HY02	16	16	16	16	16	16	16	16	16	16	16	16	16	16	15	16	16	15	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	16	16	12	12	12	12	12	11	11	15	
MNOR	HY01	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	2	1	1	2	2	2	2	1	1	1	1	
PGAU	HY01	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	21	-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			
PGAU	HY03	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	HY04	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	31	31	49	49	48	31	0	0	0	0	31	49	48	31	48	48	50	0	0	0	50	50	50	50	50	0	0	
SIHY	HY02	0	0	0	0	0</																																												

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																								
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	13	18	24	29	35	39	46	44	46	31	34	48	31	28	24	34	33	25	14	4	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	2	3	10	14	15	18	26	28	29	30	30	30	29	28	26	17	17	7	3	6	4	0	0	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	3	3	5	5	10	15	49	46	47	48	47	46	40	33	34	15	23	20	11	4	0	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	5	10	12	23	29	36	41	45	42	41	36	29	44	43	28	21	40	26	31	9	5	3	1	0	0	0	0	0	0	0	0	0	0	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6	9	10	20	32	43	46	40	34	42	43	40	39	22	20	19	15	7	4	1	0	0	0	0	0	0	0	0	0		
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	9	11	16	23	30	30	29	25	30	18	12	26	24	20	14	12	6	2	0	0	0	0	0	0	0	0	0	0		
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	11	20	27	13	27	35	46	49	50	50	50	50	50	46	40	35	29	21	13	6	1	0	0	0	0	0	0	0	0	0	0		
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	18	22	33	38	52	49	50	24	52	16	35	51	45	48	38	36	23	15	16	4	2	0	0	0	0	0	0	0	0	0	0		
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	10	26	21	28	31	40	42	34	43	23	27	37	34	20	29	10	6	5	6	2	0	0	0	0	0	0	0	0	0	0		
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	11	19	20	10	25	22	30	17	31	31	30	28	25	19	18	14	10	6	2	0	0	0	0	0	0	0	0	0	0	0		
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	1	24	68	132	181	233	286	352	387	447	515	504	461	504	480	455	422	356	305	230	165	125	74	24	1	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	49	28	10	5	5	6	5	5	6	5	4	4	5	5	5	4	4	5	4	4	4	4	4	5	4	6	4	5	4	5	5	4	4	5	6	4	2	6	5	4	5	5	4	5	4	5		
PCUF	CUFK	11	3	3	4	4	2	3	3	4	4	2	4	3	3	5	2	3	4	2	2	2	2	3	4	3	2	4	2	5	3	4	3	2	4	1	5	2	3	4	3	2	4	4	4	4	4		
Total Co-Gen		60	31	13	9	9	8	8	8	10	9	7	10	6	8	6	8	8	10	7	7	8	7	6	6	7	9	7	8	8	7	9	8	9	7	6	9	7	9	4	9	9	7	7	9	9	8	9	
Total Gen		14732	14408	14118	13704	13513	13279	13117	12970	12768	12610	12715	12638	12813	12870	12936	13015	13357	14353	15000	15538	15941	16309	16505	16678	16556	16364	16216	16713	16990	17492	17703	17711	17738	17652	17342	16594	16071	15633	15758	16540	16984	17077	17064	16888	16581	16338	16130	15840
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		-28	-28	-28	-30	-29	-29	-30	-30	-30	-29	-29	-28	-29	-195	-194	-195	-196	-196	-194	-195	-194	-195	-194	-196	-194	-195	-97	-97	-28	-29	-29	-29	-29	-31	-31	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29	
TIE-PLTG		82	77	132	68	94	62	62	79	10	46	80	44	87	42	45	65	15	8	-6	0	-8	4	44	47	65	78	47	46	72	77	114	100	89	81	59	33	45	17	43	-4	34	-9	-4	19	50	-17	5	6
Interconnection		54	49	104	38	64	33	32	48	-21	16	51	15	59	14	16	37	-14	-187	-200	-195	-205	-192	-153	-147	-129	-117	-149	-148	-123	-21	17	72	60	52	30	4	14	-14	13	-33	4	-38	-33	-11	22	-45	-23	-23
System Total		14682	14363	14018	13670	13453	13250	13089	12926	12793	12598	12668	12627	12758	12860	12924	12982	13375	14544	15204	15737	16150	16505	16662	16829	16689	16485	16369	16865	17117	17517	17690	17643	17682	17604	17316	16594	16061	15651	15749	16577	16984	17119	17101	16903	16563	16387	16157	15867
SRev ST-Coal		153	153	151	172	257	316	322	337	328	337	331	313	353	317	312	514	383	347	201	142	158	206	159	385	244	223	191	231	134	147	160	146	148	142	154	145	132	153	181	154	158	163	160	160	187	150	165	149
SRev CCGT-Gas		1278	1272	1403	1539	1642	1818	1989	2197	2390	2404	2396	2407	2394	2400	2417	2301	2173	1532	1272	1054	926	768	768	574	716	863	1091	576	690	450	385	287	286	312	508	911	1349	1723	1599	1070	559	530	516	516	662	690	724	949
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		555	555	555	555	555	404	555	404	555	555	555	555	555	555	555	496	496	496	309	309	309	309	158	309	158	309	496	496	309	309	309	309	309	309	496	496	496	496	158	309	158	309	583	583	684	533	684	
Hydro		389	213	126	126	132	262	129	255	120	283	230	333	157	167	127	150	96	76	170	238	158	216	344	212	420	194	88	53	233	438	456	529	434	440	465	216	227	67	90	274	190	319	156	58	94	112	207	137
S.Reserve Total		2375	2193	2235	2392	2586	2800	2995	3193	3393	3579	3512	3608	3459	3439	3411	3461	3148	2451	1952	1743	1551	1499	1429	1480	1538	1589	1866	1356	1366	1344	1310	1271	1177	1203	1436	1768	2204	2439	2366	1656	1216	1170	1141	1317	1526	1636	1629	1919