

Daily System Generation Summary on Thursday

Thursday, September 10, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,247 MW
Distillate	0 MW
Total TNB	2,247 MW
Total IPP	17,823 MW
Total Co-Gen	0 MW
Total System	22,893 MW

Generation Mix

Type	MWh	Percentage
Hydro	28,752	7.89 %
Gas	32,035	8.79 %
Total TNB	60,787	16.69 %
ST-Coal	248,494	68.22 %
LSS	2,029	0.56 %
Gas	53,832	14.78 %
Total IPP	304,355	83.56 %
Co-Gen	154	0.04 %
Total Co-Gen	154	0.04 %
Total Generation	365,296	100.29 %
PLTG	203	0.06 %
HVDC	851	0.23 %
Interconnection	1,054	0.29 %
Net Energy	364,242	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	18,239 MW
TNB Generation	3,285 MW
IPP Generation	13,826 MW
Spinning Reserve	1,121 MW
Maximum Demand	17,137 MW
Net Energy	364,242 MWH
Load Factor	88.56 %

Fuel Cost

Total Cost:	50,937,028.02 RM
Cost per Unit	13.95 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	738
Hydro	446
Syncon	126
Thermal	179
Total	1,489

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	44
SRDG	3
TJGS	176
Total TNB	223
CBPS	46
NPRI	127
PGLA	72
PLPS	34
YPKA	20
Total IPP	299
Total Gas	522

Total Gas Required 522

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	14847	14048	13621	13225	12931	12785	13089	13210	13553	15354	16203	16792	16741	16348	16884	17032	16928	16521	15633	15614	16187	15965	15391	14969

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, October 5, 2020 2:02:35 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Thursday

[illegible]

Daily MW Generation on Thursday

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	HY02	9	10	9	9	10	10	9	10	9	9	10	9	10	9	10	9	10	9	10	9	9	10	9	9
CEND	HY03	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
HTRG	HY01	124	63	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	64	124	124	124	124	125	125	125	125	125
KNRG	HY01	36	36	36	36	36	36	21	21	21	22	22	21	21	21	22	36	36	36	36	32	32	32	32	32
KNRG	HY02	37	37	37	37	37	37	22	22	22	22	22	21	22	22	23	37	37	37	37	32	32	32	32	32
KNRG	HY03	36	36	36	36	36	36	21	21	21	22	21	21	21	21	22	36	36	36	36	32	31	32	32	32
KNYR	HY01	96	57	57	56	56	56	97	56	56	56	0	0	0	0	61	97	96	96	96	96	96	96	96	96
KNYR	HY02	96	58	57	57	57	57	97	97	57	-1	-1	-1	60	58	-1	-1	95	95	95	95	95	95	95	95
KNYR	HY03	96	56	56	55	55	55	97	95	66	67	66	69	69	67	68	67	72	100	100	99	99	100	98	99
KNYR	HY04	96	56	56	55	55	56	98	55	55	55	55	58	58	56	56	61	101	100	100	101	100	100	98	98
LPIA	HY01	19	19	19	18	18	18	18	20	20	20	20	20	20	20	20	18	18	18	18	18	18	18	18	18
LPIA	HY02	20	20	20	19	19	19	19	19	19	19	19	19	19	19	19	18	18	18	18	18	18	18	18	18
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	6	6	6	6	5	5	5	5	5
PGAU	HY01	110	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	81	81	81	81	81	81	81	80	80	81
PGAU	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0
PGAU	HY03	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	82	81	81	82	81	81	77	81	73	23
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111	111	111	111	111	111	111	111	110	110
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	49	49	48	49	31	31	31	31	31
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	30	30	30	30	30
SIHY	HY03	30	30	30	30	30	30	30	30	30	30	30	30	30	30	0	0	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	17	17	25	25	17	17	17	17	17
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	25	25	17	17	17	17	17
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	25	25	17	17	17	17	17
SYPS	HY04	17	17	17	17	17	25	25	25	25	25	25	25	0	0	0	17	17	25	25	17	17	17	17	17
TMGR	HY01	60	32	32	32	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	83	83	84	83	83	84	83	83	83	83
TMGR	HY02	59	31	30	31	33	32	32	32	34	34	34	31	32	33	34	87	86	86	86	84	86	81	84	86
TMGR	HY03	58	29	29	0	0	0	0	0	0	0	0	0	0	0	32	82	82	82	81	79	82	77	80	82
TMGR	HY04	59	30	29	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	83	85	85	85	85	85	83	85	81	84
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	90	95	91	90	85	91	80	84	93
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	95	91	97	93	91	88	94	82	87
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
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
Total Hydro		1165	723	655	591	581	569	735	570	502	422	371	374	435	424	314	312	477	1424	1485	1789	1805	1829	1814	1802
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	2	5	5	7	17	21	23	28	23
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	10	14	19	22	28	17	27	30
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	27	26	27	11	14	7	13	17
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	26	12	18	32	20	27	29	25
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	11	16	12	6	8	18	20	14	22
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	17	29	38	35	35	20	44
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	10	15	24	11	19	10	17
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	12	17	22	29	33	37	35	31
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	12	7	5	24	22	30	26	7
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	20	28	35	40	10	6	10
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	6	31	28	42	36	16	47	19
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	14	18	16	25	27	26	17	22

Daily MW Generation on Thursday

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 LSS		0	0	0	0	0	0	0	0	0	0	0	0	9	31	85	209	228	264	308	261	291	245	301	332	236	212	300	245	149	112	92	57	50	33	11	1	0	0	0	0	0	0	0	0				
PCUF	CUFG	3	3	3	3	3	3	4	3	3	3	2	4	3	3	4	4	5	4	2	3	3	3	4	3	3	4	3	3	4	3	5	3	5	4	5	4	3	5	3	3	3	3	3					
PCUF	CUFK	2	3	3	3	4	3	4	4	3	3	4	2	4	2	4	3	4	3	3	1	2	3	2	3	3	1	5	3	3	2	3	3	4	3	3	4	4	4	4	3	3	3	2	3	2	2		
Total Co-Gen		5	6	6	6	7	6	8	7	6	6	7	4	8	5	7	7	7	9	7	5	4	5	6	6	6	5	7	6	7	6	7	7	7	6	7	7	9	7	9	7	8	7	5	8	6	5	5	
Total Gen		14947	14447	14136	13907	13675	13472	13280	13100	12990	12925	12816	12947	13091	13373	13277	13214	13606	14681	15367	15854	16238	16579	16788	16955	16722	16463	16349	16671	16876	17118	17025	17041	17180	16976	16578	16140	15721	15411	15646	16288	16205	16189	15982	15809	15420	15309	15030	14671
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			
TIE-HVDC		31	31	31	31	30	30	29	29	30	30	30	30	31	31	31	29	29	29	31	29	29	29	31	31	30	31	29	29	31	31	290	30	31	31	30	30	30	30	30	30	30	31	31	29	29			
TIE-PLTG		76	51	64	63	31	36	33	20	36	36	8	4	-21	41	42	19	31	2	-10	12	12	-23	-26	-12	-43	-2	-22	-44	-30	-41	-31	-49	-31	25	33	22	65	-15	9	-24	-5	-5	-6	21	6	-13	39	23
Interconnection		107	81	95	94	61	66	62	49	66	66	38	34	9	72	74	48	60	30	21	41	43	6	3	17	-12	29	8	-13	-1	-12	0	-18	259	55	64	52	95	15	39	6	25	25	24	51	36	17	68	52
System Total		14847	14373	14048	13820	13621	13414	13225	13058	12931	12866	12785	12920	13089	13308	13210	13173	13553	14658	15354	15821	16203	16580	16792	16945	16741	16441	16348	16691	16884	17137	17032	17066	16928	16928	16521	16095	15633	15403	15614	16289	16187	16171	15965	15765	15391	15299	14969	14626
SRev ST-Coal		184	217	394	414	395	474	532	534	542	551	546	534	534	420	411	488	489	410	328	253	205	154	188	179	195	161	172	292	193	183	181	171	174	120	89	177	153	168	168	148	166	158	162	149	164	183	165	162
SRev CCGT-Gas		1443	1469	1619	1769	1748	1837	1797	1811	1844	1821	1784	1725	1803	1827	1819	1818	1610	1617	1440	1399	1112	733	648	554	490	801	875	688	555	411	567	346	343	459	616	777	1199	1176	962	572	628	596	1045	965	992	1086	1147	1431
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	
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	
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	33	34	34	33	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	
Syncon		525	676	802	889	825	976	976	976	1077	1077	1077	1077	187	187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	187	0	187	464	500	500	500	500	187	187	313	187	187	500	500	500	651	
Hydro		233	524	466	356	430	290	125	290	358	289	240	237	277	288	222	224	294	387	325	458	442	419	434	446	527	585	674	525	527	528	534	434	378	445	405	396	400	353	347	464	469	400	401	484	420	416	376	333
S.Reserve Total		2385	2886	3281	3428	3398	3577	3430	3611	3720	3738	3647	3573	3590	3511	3529	3607	3470	2601	2280	2110	1759	1306	1270	1179	1212	1547	1721	1505	1275	1122	1282	1171	929	1245	1607	1850	2252	2197	1977	1371	1450	1467	1795	1785	2076	2185	2188	2577