

Daily System Generation Summary on Thursday

Thursday, October 15, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,215 MW
Distillate	0 MW
Total TNB	2,215 MW
Total IPP	15,480 MW
Total Co-Gen	0 MW
Total System	20,164 MW

Generation Mix

Type	MWh	Percentage
Hydro	30,849	8.29 %
Gas	37,649	10.12 %
Total TNB	68,498	18.41 %
ST-Coal	218,458	58.72 %
LSS	2,460	0.66 %
Distillate	3,855	1.04 %
Gas	76,418	20.54 %
Total IPP	301,191	80.96 %
Co-Gen	578	0.16 %
Total Co-Gen	578	0.16 %
Total Generation	370,267	99.53 %
PLTG	127	0.03 %
HVDC	-1,894	-0.51 %
Interconnection	-1,767	-0.47 %
Net Energy	372,034	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:	16:30:00 Hour
Total Set On Bus	18,652 MW
TNB Generation	3,704 MW
IPP Generation	13,557 MW
Spinning Reserve	1,356 MW
Maximum Demand	17,468 MW
Net Energy	372,034 MWH
Load Factor	88.74 %

Fuel Cost

Total Cost:	46,762,006.54 RM
Cost per Unit	12.75 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	637
Hydro	339
Syncon	351
Thermal	170
Total	1,497

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	28

Gas Usage

Station	(mmcsfd)
GLGR	51
SRDG	8
TJGS	157
Total TNB	215
CBPS	54
KLPP	78
NPRI	79
PGLA	101
PLPS	58
SGB3	44
SKSP	37
YPKA	25
Total IPP	477
Total Gas	692
Total Gas Required	739

Alternate Fuel Usage

Station	(mmcsfd)
KLPP	0
PLPS	17
SGB3	29
Total	46

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	14991	14237	13887	13408	13161	12932	13127	13144	13647	15422	16135	16747	16678	16440	17016	17422	17395	17184	16241	16588	17107	16874	16341	15926

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, November 5, 2020 8:31:47 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Thursday

[illegible]

Daily MW Generation on Thursday

		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	0	0	0	0	0	0	0	0	0	0	15	16	55	68	69	69	68	132	137	136	136	137	136	135	134	135	132	134	132	134	133	134	135	135	135	131	130	130	130	131	131	132	133	132	134	134	134	134	133	133
YPKA	ST20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	58	64	63	64	65	65	66	64	65	65	65	66	65	65	65	66	65	64	63	63	63	63	63	63	63	63	63	64	64	63	63	63	
Total CCGT-Gas				4586	4178	3880	3669	3698	3570	3522	3558	3452	3323	3133	3127	3334	3585	3436	3687	3757	4719	4917	5192	5359	5636	5871	5805	5495	5348	5185	5473	5425	5471	5468	5552	5591	5678	5437	4959	4859	4706	5266	5449	5387	5488	5481	5366	5311	5385	5167	4924
SRDG	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122	122	89	89	89	89	0	0	0			
SRDG	GT05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123	125	125	126	121	0	0	0				
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	122	245	214	214	215	210	0	0	0	
BSIA	HY01	21	21	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23				
BSIA	HY02	24	24	24	23	23	24	23	24	23	24	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	24	24	23	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24			
BSIA	HY03	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	25	25	25	25	25	25	24	24	25	25	24			
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	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	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	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	8	8	9	9	9	8	8	8	8	9	8	9	9	9	9	9	9	9	9	9	9	9	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	7	8	7	8	7	8	8	7	8	7	8	7	7	7	7	7	7	7	8	7	7	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7				
KNRG	HY01	36	36	36	36	37	36	36	37	36	37	36	36	36	36	37	36	36	36	36	38	38	38	38	38	38	38	38	38	38	37	36	38	38	36	36	36	36	37	36	37	37	37	37	38	38	38	38			
KNRG	HY02	38	38	37	38	38	37	38	38	37	38	38	38	38	38	37	37	38	38	38	37	38	38	38	38	38	38	37	38	38	38	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39			
KNRG	HY03	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	37	37	36	36	36	36	36	36	36	36	36	36	36	37	37	37	37				
KNYR	HY01	97	98	98	99	98	98	98	98	98	98	98	97	98	98	98	98	96	51	93	98	97	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	97	97	98	98	98	98	98	98	98	98	98			
KNYR	HY02	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	55	96	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98			
KNYR	HY03	98	99	98	98	98	98	98	98	98	98	98	98	98	98	98	98	49	95	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98			
KNYR	HY04	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	55	95	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98			
LPIA	HY01	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	20	20	18	18	18	18	18	19	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20			
LPIA	HY02	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	18	18	18	18	18	18	18	18	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20			
MNOR	HY01	4	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	81	81	80	81	81	109	111	111	111	111	110	110	110	110	108	148	148	148	148	109	80	80	81		
PGAU	HY02	20	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	111	111	111	111	111	111	112	112	112	112	111	112	81	21	79	111	112	112	112	112	110	112	111	82		
PGAU	HY03	18	-1	78	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	81	81	81	81	81	81	81	110	111	111	111	111	109	81	81	20	86	144	143	111	111	111	111	111	79			
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	20	20	20	20	20	20	21	21	21	21	22	22	80	80	79	21	0	0	80	79	80	143	144	77	111	110	84				
SIHY	HY01	30	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31	31	31	31	31	31	51	50	50	49	49	49	49	49	49	49	34	31	31	49	49	49	32	32	32	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	0	0	0	0	0	50	50	50	50	50	50	50	50	50	50	30	30	50	50	30	30	30	30			
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	0	0	0	0	50	50	50	50	50	50	50	50	50	50	50	34	30	30	50	50	30	30	30			
SYPS	HY01	25	25	25	25	25	25	25	25	25	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17				
SYPS	HY02	25	25	25	25	25	25	25	25	25	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17				
TMGR	HY01	0	0	0	0	0	0	0	0	31	0	32	0	72	0	33	34	83	83	83	83	83	83	83	83	83	83	82	83	83	82	82	82	83	81	80	81	81	81	81	81	81	81	81	81	81	81	81	80		
TMGR	HY02	78	80	78	79	79	79	79	79	84	83	83	83	82	83	65	34	84	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	81	80	80	81	81	81	81	81	81	81	81	81	81	81		
TMGR	HY03	79	81	79	81	81	81	81	81	81	81	81	81	80	81	59	32	78	83	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	80	80	80	80	80	80	80	80	80	80	80	80	80	78			
TMGR	HY04	81	83	82	83	83	83	83	83	84	82	82	82	81	82	61	32	80	83	83	83	83	83	83	83	83	83	83	83	83	83	84	83	84																	

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																										
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	9	16	20	25	29	22	27	30	30	14	9	11	9	26	6	10	14	11	5	2	0	0	0	0	0	0	0	0	0	0	0	0		
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	10	12	12	21	14	32	32	42	30	30	29	32	34	33	41	21	20	13	11	11	4	1	1	1	0	0	0	0	0	0	0	0		
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	5	8	13	17	18	20	20	20	20	20	20	42	38	18	13	12	6	4	2	0	0	0	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	0	1	2	5	8	12	14	18	28	30	29	16	22	30	21	29	14	8	5	5	3	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	1	4	9	15	21	22	29	43	29	34	43	39	43	31	43	17	23	25	22	17	13	9	3	0	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	2	5	6	12	15	22	32	35	34	32	25	40	43	44	36	22	32	24	14	8	5	8	2	0	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	4	9	12	18	19	24	36	39	35	24	43	19	14	3	25	31	24	16	15	11	6	2	0	0	0	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	1	6	9	9	11	19	20	17	20	28	28	30	21	30	13	13	13	10	10	9	6	4	2	0	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	2	6	9	14	21	28	22	42	27	30	35	50	32	26	25	21	14	12	16	7	4	2	0	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	0	2	6	9	9	12	15	21	22	31	48	38	43	33	29	51	38	37	39	40	28	18	11	3	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	3	8	13	22	26	27	29	29	19	25	22	23	25	24	20	14	12	12	9	7	5	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	0	13	46	83	119	173	226	263	343	318	363	348	396	310	298	300	272	309	218	190	241	100	71	23	1	1	1	0	0	0	0	0	0	0	0		
PCUF	CUFG	3	1	3	3	3	4	4	3	2	2	4	4	4	2	3	4	4	29	31	30	29	31	29	30	31	31	29	31	30	30	29	28	29	31	4	5	3	30	28	30	29	29	31	4	4	3	3			
PCUF	CUFK	4	1	2	3	3	4	3	1	2	4	4	4	4	5	3	4	8	10	9	9	9	8	9	10	10	9	10	9	10	11	8	7	9	12	5	5	3	7	9	11	9	8	10	3	3	3	3			
Total Co-Gen		7	2	5	6	6	8	7	4	4	6	8	8	6	8	7	8	37	41	39	38	40	37	39	37	39	41	41	38	41	39	40	41	37	35	38	43	9	10	6	37	37	41	38	37	41	7	7	6	6	
Total Gen		14944	14524	14233	14015	13788	13526	13358	13245	13110	12951	12881	12881	13075	13265	13094	13070	13626	14759	15399	15820	16112	16407	16726	16835	16657	16494	16388	16585	16801	17167	17229	17210	17218	17296	16988	16296	16026	15727	16363	17075	17051	17013	16850	16657	16335	16155	15783	15429		
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		-98	-98	-98	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	0	0	0	0	0	0	0	0	0	0	0	0	-30	-196	-196	-195	-196	-197	-197	-195	-197	-197	-196	-195	-195	-29	-28	-30	-30	-29	-29	-196	-197	-195	-195		
TIE-PLTG		63	69	105	32	-59	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-7	11	15	47	29	33	11	14	-7	-2	-17	43	-19	-42	16	-1	34	0	64	81			
Interconnection		-36	-29	7	4	-88	-40	-40	-40	-41	-41	-40	-40	-41	-41	-40	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-11	-167	-162	-186	-183	-203	-197	-213	14	-46	-71	-14	-30	5	-196	-132	-115		
System Total		14991	14564	14237	14022	13887	13576	13408	13295	13161	13003	12932	12932	13127	13316	13144	13091	13647	14782	15422	15843	16135	16428	16747	16856	16678	16516	16440	16804	17016	17362	17422	17371	17395	17468	17184	16489	16241	15936	16588	17073	17107	17094	16874	16697	16341	16362	15926	15555		
SRev ST-Coal		134	130	179	135	357	465	456	516	527	516	507	439	452	447	436	464	396	455	245	135	146	161	153	162	152	160	147	150	172	157	152	155	145	155	153	159	168	143	174	152	146	223	240	160	224	150	193	148		
SRev CCGT-Gas		695	700	626	584	555	683	731	695	824	1105	1421	1426	1483	1639	1794	1612	1540	734	913	555	688	694	526	594	748	823	1135	981	887	700	803	769	727	633	874	1231	980	1133	573	230	292	191	198	313	368	294	512	602		
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	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	0
SRev 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	0	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	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	0
Syncon		525	676	676	676	827	827	827	827	827	827	827	827	827	827	827	827	827	676	676	827	676	676	676	338	187	187	187	187	187	0	0	187	187	187	187	374	374	374	374	187	374	374	374	187	374	374	374	374	374	
Hydro		349	209	156	208	79	62	63	60	54	73	123	74	84	75	186	457	95	327	349	215	285	288	287	414	490	484	488	487	463	493	481	395	340	352	371	359	304	431	300	283	193	225	161	312	327	319	319	396		
S.Reserve Total		1703	1715	1637	1603	1818	2037	2077	2098	2232	2521	2878	2766	2846	2988	3243	3360	2858	2192	2183	1732	1795	1819	1642	1508	1577	1654	1957	1805	1724	1460	1475	1578	1473	1358	1620	2155	1859	2110	1449	881	1033	1074	1034	1030	1355	1162	1424	1637		