

Daily System Generation Summary on Thursday

Thursday, December 9, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,513 MW
Distillate	0 MW
Total TNB	2,513 MW
Total IPP	16,400 MW
Total Co-Gen	0 MW
Total System	21,756 MW

Generation Mix

Type	MWh	Percentage
Hydro	11,799	3.17 %
Gas	37,802	10.14 %
Total TNB	49,601	13.31 %
ST-Coal	212,788	57.09 %
LSS	3,667	0.98 %
Gas	105,554	28.32 %
Total IPP	322,009	86.39 %
Co-Gen	1,252	0.34 %
Total Co-Gen	1,252	0.34 %
Total Generation	372,862	100.03 %
PLTG	503	0.13 %
HVDC	-377	-0.10 %
Interconnection	126	0.03 %
Net Energy	372,736	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	18,923 MW
TNB Generation	2,749 MW
IPP Generation	14,848 MW
Spinning Reserve	1,278 MW
Maximum Demand	17,596 MW
Net Energy	372,736 MWH
Load Factor	88.26 %

Fuel Cost

Total Cost:	78,326,655.95 RM
Cost per Unit	21.01 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	287
Hydro	330
Syncon	694
Thermal	320
Total	1,631

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	23

Gas Usage

Station	(mmcsfd)
GLGR	49
PGPS	0
TJGS	102
Total TNB	151
CBPS	52
NPRI	155
PGLA	107
PLPS	36
SGB3	1
Total IPP	351
Total Gas	502

Total Gas Required 502

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	15014	14377	13860	13422	13028	12958	13071	13194	13771	15506	16268	16661	16646	16592	17144	17596	17588	17042	16186	16322	16946	16717	16291	15881

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, January 3, 2022 12:37:38 PM Head
Grid System Operator
(Ir. Shanmugam Thoppalan)

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
JMAH	U001		664	614	555	500	510	503	455	421	404	402	404	404	405	460	452	456	455	557	513	610	655	694	697	695	696	695	659	695	696	696	696	697	695	694	695	695	695	655	693	696	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	696	695	69

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	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	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
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	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
HTRG	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
KNRG	HY01	34	34	34	34	34	21	21	21	21	22	22	21	21	21	21	21	22	21	22	22	21	21	21	21
KNRG	HY02	35	35	35	35	35	21	21	21	21	22	22	21	21	21	21	21	22	22	21	22	22	21	21	21
KNRG	HY03	34	34	34	34	34	21	21	21	21	22	22	20	21	21	21	21	22	21	21	20	21	20	21	21
KNYR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	57	59	59	-1	-1	60	96	96	96	-1	-1
KNYR	HY02	56	57	58	61	55	55	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	100	98	99	60	61	56	0
KNYR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93	93	92	93	62	49	-1
KNYR	HY04	57	57	59	100	56	56	57	57	58	66	57	60	61	55	54	57	69	60	79	55	82	58	59	59
LPJA	HY01	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
LPJA	HY02	22	23	22	22	22	22	22	22	23	22	23	22	22	22	23	23	22	22	22	22	22	23	22	22
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
PGAU	HY01	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	51	51	51	51	51	51	48	30	30	30	0
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30	0
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	51	51	51	51	51	51
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	17	0
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	0
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	17	0	0
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	83	83	83	83	83	83	82	82	82	82	81
TMGR	HY02	0	0	0	0	0	35	36	34	36	0	0	0	0	0	0	0	0	0	0	0	33	33	85	65
TMGR	HY03	38	41	43	83	37	42	39	40	38	44	39	41	40	38	40	40	58	39	66	36	41	41	40	43
TMGR	HY04	30	30	32	33	29	32	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	31	31	42	31	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	95	89	94	93	93	80	-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
UPIA	HY01	5	6	6	5	5	5	6	6	5	5	6	5	6	6	5	5	6	5	5	5	5	5	5	5
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		405	412	418	521	401	409	315	317	313	330	279	288	287	354	277	281	366	281	328	357	490	469	488	530
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	0	0	0	0	0	0	0	0	0	0
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	13	17	22	25	28	30	32	32	26
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	13	19	27	28	28	32	40	42	45
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	11	16	17	22	6	14	27	24	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	13	20	27	33	36	42	45	49	50	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	10	15	18	21	20	28	30	31	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	16	20	25	30	36	40	42	45	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	11	18	24	29	34	38	41	43	44	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	14	15	21	25	28	29	30	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	14	14	14	14	14	14	14	14	50
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	14	18	26	36	44	48	52	43	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	17	22	28	33	38	39	41	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	6	10	12	17	21	25	26	10	

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		
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	16	23	30	30	19	28	30	28	30	30	30	30	30	26	30	29	22	14	7	2	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	0	13	70	154	223	295	349	369	415	481	526	532	513	454	470	395	479	418	321	250	260	180	136	32	2	2	0	0	0	0	0	0	0	0	0
PCUF	CUFG	27	28	27	28	27	25	27	27	28	28	28	28	28	28	27	28	28	27	27	26	25	26	26	25	24	23	24	25	24	24	25	24	24	25	25	26	26	27	27	26	28	27	27	28	28	28	28		
PCUF	CUFK	25	25	26	25	27	26	27	27	26	27	27	25	26	26	25	25	27	26	28	27	26	27	26	24	26	27	26	24	25	26	24	26	25	24	26	27	25	27	25	25	26	27	27	22	22	24	25	27	
Total Co-Gen		52	53	53	53	54	51	54	54	54	55	55	53	54	54	52	53	55	54	55	54	52	52	52	50	51	51	49	48	50	50	48	51	49	48	51	52	51	53	52	52	52	55	54	49	50	52	53	55	
Total Gen		15089	14834	14414	14074	13865	13669	13421	13226	13024	13014	12933	13022	13018	13331	13178	13222	13720	14718	15452	15850	16305	16550	16674	16811	16663	16559	16638	16956	17129	17591	17645	17577	17640	17529	17111	16553	16167	15819	16351	16974	17010	16947	16689	16546	16295	16118	15880	15660	
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	
TIE-HVDC		-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-30	-30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-29	-29	-29	-29	-29	-30	-30
TIE-PLTG		104	110	66	-6	34	39	27	-18	25	18	3	-63	-24	27	13	-6	-21	0	-54	-13	37	-10	13	-33	17	28	46	70	-15	2	49	43	52	28	69	-41	-19	-105	29	100	92	65	2	76	33	41	28	45	
Interconnection		75	82	37	-35	5	10	-1	-47	-4	-11	-25	-91	-53	-2	-16	-34	-51	-30	-54	-13	37	-10	13	-33	17	28	46	70	-15	2	49	43	52	28	69	-41	-19	-105	29	100	64	35	-28	48	4	11	-1	16	
System Total		15014	14752	14377	14109	13860	13659	13422	13273	13028	13025	12958	13113	13071	13333	13194	13256	13771	14748	15506	15863	16268	16560	16661	16844	16646	16531	16592	16886	17144	17589	17596	17534	17588	17501	17042	16594	16186	15924	16322	16874	16946	16912	16717	16498	16291	16107	15881	15644	
SRev ST-Coal		628	711	757	857	875	967	964	963	968	978	976	973	969	968	969	968	986	872	702	575	505	269	208	210	319	408	467	329	208	194	181	190	231	224	256	241	408	560	267	318	299	268	399	410	434	643	693	711	
SRev CCGT-Gas		867	738	578	527	542	465	493	488	650	687	716	644	653	549	663	645	283	333	286	400	299	424	393	374	477	389	363	329	199	188	205	197	324	197	318	456	526	552	426	218	202	228	235	202	310	236	238	216	
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		839	839	839	688	839	839	926	926	926	926	1027	1027	1027	775	1027	1027	926	1027	1027	940	940	940	789	839	839	839	940	940	565	464	464	464	277	277	378	753	940	940	940	753	602	753	753	940	940	753	940	940	
Hydro		234	227	221	269	238	230	173	171	175	158	172	163	164	349	174	170	186	170	123	181	149	171	303	211	209	211	173	142	345	340	428	435	456	525	708	280	187	141	142	325	446	361	379	244	266	303	198	192	
S.Reserve Total		2568	2515	2395	2341	2494	2501	2556	2548	2719	2749	2891	2807	2813	2641	2833	2810	2381	2402	2138	2096	1893	1804	1693	1634	1844	1847	1943	1740	1317	1186	1278	1286	1288	1223	1660	1830	2061	2193	1775	1614	1549	1610	1766	1796	1950	1935	2069	2059	