

Daily System Generation Summary on Thursday

Thursday, October 21, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,372 MW
Distillate	0 MW
Total TNB	2,372 MW
Total IPP	16,794 MW
Total Co-Gen	0 MW
Total System	21,733 MW

Generation Mix

Type	MWh	Percentage
Hydro	24,186	6.70 %
Gas	47,187	13.06 %
Total TNB	71,373	19.76 %
ST-Coal	220,051	60.92 %
LSS	3,020	0.84 %
Gas	65,699	18.19 %
Total IPP	288,770	79.95 %
Co-Gen	1,205	0.33 %
Total Co-Gen	1,205	0.33 %
Total Generation	361,348	100.04 %
PLTG	157	0.04 %
Interconnection	157	0.04 %
Net Energy	361,191	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	18,569 MW
TNB Generation	3,690 MW
IPP Generation	13,440 MW
Spinning Reserve	1,391 MW
Maximum Demand	17,217 MW
Net Energy	361,191 MWH
Load Factor	87.41 %

Fuel Cost

Total Cost:	74,622,034.46 RM
Cost per Unit	20.65 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	472
Hydro	496
Syncon	321
Thermal	260
Total	1,549

Time Weather Temperature

Afternoon	Hot	33
Morning	Sunny	24

Gas Usage

Station	(mmscfd)
GLGR	32
TJGS	180
Total TNB	211
CBPS	49
KLPP	49
NPRI	163
PGLA	46
PLPS	53
SKSP	1
Total IPP	361
Total Gas	572

Total Gas Required 572

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	14016	13404	12935	12648	12406	12409	12530	12710	13273	15026	15812	16344	16335	16173	16712	17116	17217	16730	15861	16259	16772	16427	16023	15661

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, November 3, 2021 1:16:24 PM
 (Ir. Shanmugam Thoppalan)
 Head
 Grid System Operator

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																										
JMAH	U001	694	689	694	652	652	581	581	501	502	531	477	483	430	484	481	482	482	552	677	691	693	694	692	692	666	652	653	693	691	693	694	692	694	692	694	692	692	652	652	651	692	692	692	694	693	693	650	602	601	602
JMAH	U002	693	693	695	656	654	583	586	504	506	535	486	483	435	484	485	483	485	558	683	697	693	696	695	693	656	656	655	697	701	696	697	695	692	693	695	651	656	655	695	695	699	695	704	693	653	602	602	605		
JMHE	U001	895	901	831	831	818	777	780	779	781	783	781	777	779	777	778	782	783	878	927	983	978	976	978	981	980	980	980	980	979	980	980	982	979	977	978	978	979	979	981	982	977	979	982	981	980	977	976	977		
JMHE	U002	895	908	829	830	805	777	777	780	780	784	781	777	780	778	779	780	782	898	964	983	979	979	980	983	980	979	979	980	978	976	982	980	978	981	979	981	978	980	981	983	978	977	977	980	977	976	978	978		
JMJG	U002	673	673	673	673	673	673	673	673	673	673	673	673	673	673	673	673	673	673	673	677	677	677	677	671	671	671	671	671	667	669	665	670	672	672	670	669	673	677	669	675	674	673	673	674	671	673	669			
JMJG	U003	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680			
JMJG	U004	900	900	830	830	780	780	780	780	780	780	780	780	780	780	780	780	780	800	900	910	975	975	975	975	977	977	977	977	977	973	975	970	973	970	969	970	973	969	971	976	973	972	973	974	972	970	975	975		
JMJG	U005	890	830	830	830	800	800	800	800	800	800	800	800	800	800	800	800	800	890	890	892	892	892	892	900	900	900	900	960	970	990	990	990	1000	1000	1010	916	895	890	892	890	896	890	894	890	890	887	892			
PKLG	U003	153	153	152	154	154	152	153	153	154	154	153	153	153	153	153	153	153	152	174	207	204	259	276	276	249	208	204	237	251	254	268	279	278	279	281	258	232	206	221	265	271	248	209	146	151	151	153	154		
PKLG	U004	158	160	158	158	158	159	158	159	157	158	161	159	159	158	159	158	159	159	184	203	204	255	278	271	255	205	203	249	255	255	269	278	278	278	279	255	211	207	248	276	267	252	205	151	157	157	158	160		
TBIN	U001	540	502	503	448	448	397	349	293	302	300	301	302	301	301	300	299	300	307	426	610	621	687	685	686	663	649	650	686	691	685	692	687	685	688	688	650	646	648	689	689	687	685	689	686	649	601	600	554		
TBIN	U002	0	0	0	0	32	158	242	214	214	210	240	347	420	475	569	664	700	694	692	693	690	691	692	691	668	651	654	692	693	690	691	689	686	690	689	656	651	651	694	686	689	692	690	690	651	599	602	553		
TBIN	U003	545	503	503	451	453	405	406	302	303	305	303	303	301	301	302	302	302	314	530	598	658	701	687	687	662	653	654	687	685	686	687	687	686	686	688	650	650	654	688	688	685	689	689	686	651	602	599	553		
TBIN	U004	904	846	832	834	801	806	803	802	801	804	805	800	801	801	804	802	802	877	925	980	981	983	983	985	984	985	984	981	981	983	982	983	985	983	983	984	984	982	984	983	980	983	984	982	983	985	982	983		
Total ST-Coal		8620	8438	8210	8027	7908	7728	7768	7420	7433	7497	7421	7517	7492	7645	7743	7838	7881	8322	9325	9798	9925	10145	10170	10169	9991	9846	9844	10110	10193	10188	10256	10257	10254	10269	10273	10045	9877	9830	10091	10156	10143	10116	10038	9909	9718	9463	9466	9335		
Total ST-Oil		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Total 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			
CBPS	BLK2	218	220	220	224	217	218	220	271	232	216	224	211	285	354	288	298	365	365	369	367	369	364	365	357	356	362	365	359	365	365	364	354	368	368	358	359	359	362	365	365	360	357	359	358	365	368	362	360		
GLGR	GT01	68	70	69	69	68	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
GLGR	GT02	68	68	69	68	69	96	97	97	97	96	96	97	96	97	96	97	97	95	96	96	96	97	97	96	96	96	96	96	95	96	96	96	96	96	96	96	96	97	106	94	95	95	95	95	96	95	95			
GLGR	ST1C	73	73	71	73	72	74	41	41	40	40	41	40	41	41	41	40	41	40	41	41	41	41	41	40	40	41	41	41	41	41	40	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	40			
KLPP	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	133	128	124	120	121	123	123	124	134	125	124	125	124	127	129	136	135		
KLPP	GT15	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	130	130	130	130	130	130	130	110	110	110	110	110	110	110	0			
KLPP	ST17	69	68	69	69	69	69	68	69	69	69	68	69	69	69	69	69	70	68	69	69	68	69	69	69	69	68	67	68	68	66	146	145	142	141	141	141	140	141	141	140	141	141	141	130	66	68	68			
NPRI	BLK1	514	521	520	520	516	514	511	522	521	518	521	507	521	515	510	515	524	523	518	520	521	520	539	546	545	521	515	507	522	520	520	509	530	521	508	508	510	512	520	515	511	513	512	512	517	519	511	518		
NPRI	BLK2	518	524	525	517	517	515	506	524	524	509	524	493	521	515	497	518	525	526	524	516	524	525	508	496	500	523	505	491	526	525	524	498	529	524	496	496	511	512	524	517	499	497	494	493	520	523	512	520		
PCGP	PGRG	594	603	602	602	597	594	591	604	604	600	603	585	602	594	591	595	606	606	600	601	601	604	601	594	591	603	599	584	605	602	603	589	615	603	588	589	592	594	604	599	591	594	594	594	598	602	591	600		
PGLA	GT11	156	159	159	159	157	156	156	161	160	158	160	155	159	158	156	158	153	197	227	160	160	161	159	159	157	156	159	157	154	160	159	160	157	163	160	156	155	157	159	222	221	222	158	156	158	159	157	158		
PGLA	ST10	88	88	88	88	88	88	88	88	88	87	87	87	88	88	88	87	90	111	88	88	89	90	89	88	89	90	89	89	90	90	89	89	90	89	89	89	89	89	115	113	111	102	88	88	89	88	88			
PLPS	GT11	129	128	129	128	128	129	128	128	128	129	128	129	129	128	127	129	129	129	129	129	128	124	127	130	127	131	130	126	131	131	131	126	66	66	66	67	65	65	66	116	112	112	114	112	115	115	113	116		
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	142	139	144	142	138	143	143	143	139	65	64	64	64	65	63	65	112	109	110	110								

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	8	9	9	8	9	9	9	9	9	9	9	9	9	8	9	9	9	8	8	8	8	8	8	8	8
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	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
HTRG	HY02	63	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	63	63	63	63	125	125	125	125	
KNRG	HY01	34	34	34	34	34	34	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	
KNRG	HY02	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
KNRG	HY03	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	
KNYR	HY01	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	
KNYR	HY02	99	99	100	100	100	99	100	100	100	99	98	100	100	98	98	99	98	99	98	99	98	99	98	98	
KNYR	HY03	98	98	98	98	98	98	98	98	98	98	97	98	98	98	98	98	98	98	98	97	98	97	97	97	
KNYR	HY04	99	99	100	100	100	100	100	100	99	98	100	100	103	103	103	103	103	99	99	99	99	99	98	98	
LPIA	HY01	21	21	21	22	22	24	25	25	25	25	24	24	24	24	24	24	24	24	24	24	22	22	22	22	
LPIA	HY02	20	21	21	21	20	19	20	22	22	22	22	23	23	23	23	23	23	23	23	23	23	22	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	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	18	20	20	20	20	0	0	
PGAU	HY04	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	30	30	30	30	30	0	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	30	30	30	30	30	0	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	0	
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	0	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	0	
TMGR	HY01	43	44	50	50	42	49	42	81	52	42	62	40	79	58	41	42	77	82	48	47	81	80	42	41	
TMGR	HY02	46	46	53	44	44	52	44	83	52	43	62	41	81	64	40	44	82	56	50	48	86	82	43	43	
TMGR	HY03	81	81	81	32	32	32	0	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	32	32	32	32	31	
TMGR	HY04	82	82	82	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	33	33	33	32	41	61	79	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	91	87	82	92	182	98	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	90	-1	89	86	93	100	91	
UPIA	HY01	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	5	5	5	5	5	5	5	5	
Total Hydro		1025	921	918	809	769	783	738	819	706	687	723	677	773	735	711	717	791	770	735	731	903	898	891	948	
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	1	3	5	7	9	10	21	23	20	23	25	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	7	8	9	16	22	17	25	18	15	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	10	17	23	23	25	29	27	25	21	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	13	20	20	26	37	40	25	39	36	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	11	12	16	24	35	35	33	30	38	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	6	9	10	19	14	27	20	30	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	10	17	16	25	21	31	29	25	19	26	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	9	14	21	40	35	36	44	39	33	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	11	16	21	24	28	30	25	22	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	5	9	12	13	16	19	19	15	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	13	18	32	28	21	33	39	15	50	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	11	21	29	42	36	45	52	52	42	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	10	14	13	19	20	22	20	20	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	5	7	9	15	18	20	15	17	17	

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	3	8	12	14	30	30	30	30	28	24	30	30	10	15	24	19	18	16	20	9	6	3	1	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	18	63	113	172	239	326	372	404	428	422	385	444	398	398	358	354	333	258	208	155	115	61	18	1	1	0	0	0	0	0	0	0	0	0
PCUF	CUFG	27	27	28	28	29	28	28	29	27	29	28	27	28	29	28	29	29	29	28	27	27	18	18	18	17	18	15	17	17	17	17	22	23	17	17	16	17	27	28	27	30	28	28	29	28	29	28		
PCUF	CUFK	25	26	25	26	26	25	25	26	26	25	26	24	25	26	25	27	26	25	26	25	25	25	24	26	26	24	26	24	26	26	25	25	26	25	26	25	26	24	26	27	26	24	26	27	24	27	27		
Total Co-Gen		52	53	53	54	55	53	53	53	55	53	54	54	51	53	55	53	56	55	54	54	52	52	43	43	42	43	42	45	43	41	43	48	48	42	43	41	43	51	54	54	56	52	54	56	52	56	55		
Total Gen		14038	13662	13427	13124	12951	12782	12684	12521	12378	12384	12378	12329	12545	12715	12694	12858	13223	14222	15027	15409	15812	16198	16352	16451	16287	16170	16198	16482	16739	17057	17138	17135	17178	17120	16776	16359	15908	15710	16263	16927	16810	16678	16425	16248	16006	15869	15645	15310	
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		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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-PLTG		25	5	26	-17	19	31	39	-26	-24	-15	-27	14	19	30	-12	8	-47	-49	4	-54	3	17	11	3	-45	3	28	42	30	50	25	38	-35	-36	50	19	51	23	8	60	41	-2	1	7	-14	-2	-13	1	
Interconnection		25	5	26	-17	19	31	39	-26	-24	-15	-27	14	19	30	-12	8	-47	-49	4	-54	3	17	11	3	-45	3	28	42	30	50	25	38	-35	-36	50	19	51	23	8	60	41	-2	1	7	-14	-2	-13	1	
System Total		14016	13660	13404	13144	12935	12754	12648	12550	12406	12403	12409	12319	12530	12689	12710	12854	13273	14274	15026	15466	15812	16184	16344	16451	16335	16170	16173	16443	16712	17010	17116	17100	17217	17160	16730	16344	15861	15691	16259	16871	16772	16683	16427	16244	16023	15874	15661	15312	
SRev ST-Coal		631	694	695	777	828	945	863	989	993	893	862	961	884	879	882	891	857	858	557	397	320	212	186	187	359	413	410	224	221	237	190	189	192	187	183	421	513	429	225	200	213	231	227	234	428	541	537	534	
SRev CCGT-Gas		1299	1058	1062	1074	1089	1090	1028	924	969	1006	973	1072	924	871	968	921	721	197	412	566	547	422	538	519	602	559	601	672	558	356	545	445	471	488	577	568	800	797	502	250	339	336	412	439	397	432	474	336	
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	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		525	374	525	525	612	612	612	612	612	612	462	612	612	612	612	699	699	825	825	500	313	277	338	151	151	151	151	151	151	151	151	151	151	151	151	338	338	338	525	525	0	0	338	338	338	612	525	525	612
Hydro		275	280	132	241	194	180	139	58	122	141	105	151	55	93	141	135	61	82	121	125	302	308	351	419	654	621	609	567	660	620	637	724	581	585	598	382	377	153	147	686	702	472	567	590	415	345	309	190	
S.Reserve Total		2730	2406	2414	2617	2723	2827	2642	2583	2696	2652	2552	2796	2475	2455	2603	2559	2338	1836	1915	1913	1669	1255	1352	1463	1766	1744	1771	1614	1590	1364	1523	1509	1395	1411	1696	1709	2028	1904	1399	1136	1254	1377	1544	1601	1852	1843	1845	1672	