

Daily System Generation Summary on Thursday

Thursday, September 24, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,159 MW
Distillate	0 MW
Total TNB	2,159 MW
Total IPP	15,457 MW
Total Co-Gen	0 MW
Total System	20,439 MW

Generation Mix

Type	MWh	Percentage
Hydro	24,212	6.67 %
Gas	37,975	10.46 %
Total TNB	62,187	17.13 %
ST-Coal	210,262	57.93 %
LSS	2,998	0.83 %
Gas	86,400	23.80 %
Total IPP	299,660	82.56 %
Co-Gen	158	0.04 %
Total Co-Gen	158	0.04 %
Total Generation	362,005	99.74 %
PLTG	-348	-0.10 %
HVDC	-611	-0.17 %
Interconnection	-959	-0.26 %
Net Energy	362,964	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	17,913 MW
TNB Generation	3,855 MW
IPP Generation	13,330 MW
Spinning Reserve	722 MW
Maximum Demand	17,141 MW
Net Energy	362,964 MWH
Load Factor	88.23 %

Fuel Cost

Total Cost:	54,149,604.53 RM
Cost per Unit	14.98 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	477
Hydro	459
Syncon	211
Thermal	162
Total	1,309

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	48
SRDG	2
TJGS	194
Total TNB	244
CBPS	50
KLPP	90
NPRI	142
PGLA	106
PLPS	57
SKSP	29
YPKA	42
Total IPP	516
Total Gas	759
Total Gas Required	759

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	14647	13994	13502	13031	12701	12531	12851	12984	13376	14862	15604	16060	16081	15825	16544	16940	17141	16732	15882	15796	16875	16622	16242	15897

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, October 6, 2020 10:09:13 AM
(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	693	692	696	691	693	692	693	693	694	692	694	691	693	692	691	693	708	693	695	693	692	693	693	693	694	693	694	692	694	694	693	695	694	693	693	693	693												
JMAH	U002	691	693	696	696	694	693	692	695	694	693	694	694	694	694	694	694	696	693	695	693	694	694	696	694	696	694	693	693	693	693	694	695	696	694	695	694													
JMHE	U002	978	902	779	780	780	783	779	782	779	775	780	781	778	780	779	802	981	985	995	981	979	976	980	979	978	980	978	980	981	980	978	976	984	977	980	980	977	985	974	981	979	982	930	927	928	929	932		
JMJG	U001	349	349	353	354	351	353	354	353	349	351	349	350	352	352	349	350	349	360	380	425	506	502	496	508	513	516	514	523	518	519	520	519	517	516	515	525	593	660	670	678	663	672	669	671	671	676	668		
JMJG	U002	672	672	673	672	672	671	674	673	669	673	673	671	674	673	672	672	673	677	675	670	672	673	672	672	682	668	674	668	671	672	672	673	672	673	672	673	665	672	674	673	673	672	671	674	668	675	673	675	
JMJG	U003	667	674	668	667	667	668	664	671	670	666	667	668	671	670	669	668	668	670	665	673	666	665	672	666	671	664	669	669	666	668	671	667	667	667	667	668	668	667	665	662	666	664	667	668	668	659	662	660	
JMJG	U004	977	932	855	785	783	785	785	782	782	788	785	786	785	785	783	790	877	964	980	979	980	980	978	977	972	971	971	972	970	970	972	972	970	972	972	972	973	974	970	972	974	933	933	933	933	931			
JMJG	U005	697	698	696	698	701	698	700	699	700	698	699	699	702	699	700	698	700	702	701	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PKLG	U003	282	284	280	279	279	282	283	281	284	283	284	282	285	283	282	282	281	216	143	142	144	145	145	144	145	144	144	143	144	144	144	144	144	144	144	144	144	143	143	144	143	142	144	143	143	143	143		
PKLG	U004	277	282	280	279	279	272	280	277	280	278	276	280	287	286	280	281	280	277	278	280	278	281	280	279	281	279	282	278	280	276	283	279	283	278	276	276	280	279	277	277	269	275	275	287	278	279	277	278	
PKLG	U005	466	465	464	468	476	468	466	468	462	465	464	470	468	466	466	467	467	467	467	464	467	465	466	469	469	467	468	466	461	467	467	466	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468		
PKLG	U006	448	445	449	449	449	448	448	446	449	448	446	446	449	449	446	446	447	449	451	449	449	449	449	448	449	448	446	449	446	448	448	449	449	448	446	449	449	448	449	449	448	449	450	452	449	446	448	445	
TBIN	U001	689	690	686	689	690	691	687	689	687	689	689	692	689	690	688	691	687	691	689	688	691	685	687	686	691	689	692	690	687	687	689	686	687	687	689	689	685	689	688	686	686	689	688	688	687	688	687	683	
TBIN	U002	690	687	691	693	694	691	694	690	691	695	692	692	691	694	693	692	693	692	696	694	693	693	693	697	689	688	692	695	693	690	691	694	690	692	692	692	695	694	691	687	692	693	686	690	693	692	689	692	
TBIN	U003	690	693	690	693	690	692	690	691	693	689	691	693	693	691	689	691	689	691	689	692	689	689	692	689	686	691	687	690	689	689	691	692	690	689	689	689	690	689	689	690	689	690	691	691	690	689	689		
Total ST-Coal		9266	9158	8956	8887	8898	8884	8893	8886	8884	8891	8875	8893	8915	8904	8891	8887	8913	9124	9149	8516	8516	8601	8595	8586	8621	8596	8603	8588	8610	8588	8609	8605	8603	8604	8597	8601	8610	8681	8750	8738	8751	8744	8755	8683	8664	8653	8662	8651	
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	352	359	365	363	363	228	222	219	221	228	221	224	226	218	214	224	238	282	326	368	360	362	357	360	358	360	361	359	359	357	356	355	356	353	357	357	355	355	356	362	365	359	361	361	365	364	362	358	
GLGR	GT01	66	67	68	68	67	68	70	67	69	69	67	68	68	67	67	66	68	69	69	98	101	87	68	67	68	68	68	67	78	101	99	100	99	101	99	68	67	67	68	95	89	93	84	83	89	83	87	84	
GLGR	GT02	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	67	100	101	86	68	68	68	68	68	80	100	100	100	100	100	100	67	68	67	68	97	93	95	84	84	91	84	86	84		
GLGR	ST1C	73	72	72	71	72	72	72	72	72	72	72	72	72	72	71	71	72	72	72	86	91	87	72	72	72	72	72	74	101	91	91	91	91	91	78	72	73	72	87	87	83	85	87	84	85	83			
KLPP	GT13	62	64	68	68	67	68	68	63	68	74	72	70	73	68	66	68	71	68	107	105	130	132	135	137	136	136	136	137	135	136	136	136	135	136	136	137	138	111	111	128	128	126	124	124	124	124	124		
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	49	152	153	153	155	158	157	158	156	156	156	156	155	157	158	158	114	121	158	158	158	158	158	158	158	157	155			
KLPP	GT15	84	83	84	84	88	84	84	84	85	90	88	85	88	88	89	88	87	88	124	124	144	148	160	160	161	161	161	160	160	159	158	158	158	157	157	158	123	123	154	159	162	159	159	161	161	160	160		
KLPP	ST17	86	86	84	82	83	83	83	83	82	82	87	87	84	84	86	86	83	82	115	118	129	129	184	184	200	200	200	198	202	202	198	198	198	198	199	199	200	185	185	185	201	201	200	200	200	200	200	200	
NPRI	BLK1	500	516	515	516	515	512	394	339	351	322	313	320	326	314	436	320	370	476	508	523	506	506	513	509	502	507	510	505	511	506	505	506	505	508	503	506	497	503	506	508	510	506	506	503	504	508	503		
NPRI	BLK2	500	517	516	516	516	393	319	308	320	320	313	320	325	311	307	317	373	508	525	506	512	503	506	499	505	507	512	506	504	506	505	509	505	506	499	505	509	509	510	507	508	506	507	505	507	504			
PCGP	PGRG	582	603	603	602	603	601	603	587	603	587	226	184	399	401	410	593	589	485	591	603	608	625	606	604	603	595	600	590	600	599	602	608	604	599	601	599	604	598	602	591	600	604	605	609	604	601	602	602	603
PGLA	GT11	159	166	175	164	166	165	166	162	167	168	163	167	169	165	161	166	163	166	166	177	164	212	186	220	217	221	219	221	222	222	221	222	222	220	222	212	167	171	214	216	214	195	203	214	208	212	191		
PGLA	GT12	164	170	177	168	170	169	169	166	171	172	166	170	172	168	166	170	165	170	169	181	168	215	190	224	221	222	224	225	224	224	224	224	226	224	226	215	170	174	216	218	217	197	206	216	211	217	195		
PGLA	ST10	201	205	206	206	204	204	201	201	204	203	204	204	204	206	201</																																		

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
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
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
BSIA	HY01	22	22	22	22	22	22	21	21	0	0	0	0	0	0	20	20	20	20	20	20	20	20	20	20
BSIA	HY02	23	23	23	23	23	23	23	23	0	0	0	0	0	0	23	23	23	23	23	23	23	23	23	23
BSIA	HY03	24	24	24	24	24	24	23	23	14	13	14	13	13	14	23	23	23	23	23	23	23	23	23	23
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
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
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
KNRG	HY01	36	36	36	36	36	36	36	0	0	0	0	0	0	0	36	36	36	36	36	36	36	36	36	36
KNRG	HY02	37	37	37	37	37	37	37	0	0	0	0	0	0	0	37	37	37	37	37	37	37	37	37	37
KNRG	HY03	36	36	36	36	36	36	36	26	25	26	26	25	25	26	25	36	36	36	36	36	36	36	36	36
KNYR	HY01	97	60	60	0	0	0	0	0	0	0	0	0	0	99	98	100	98	100	99	99	99	100	100	99
KNYR	HY02	97	60	61	61	60	58	57	58	67	92	60	60	94	60	58	87	84	88	82	98	93	98	89	85
KNYR	HY03	96	99	99	-1	-1	-1	-1	-1	-1	-1	98	-1	-1	97	96	96	96	96	96	96	96	96	96	96
KNYR	HY04	97	60	60	84	69	58	63	60	81	85	61	59	92	61	62	81	85	88	79	100	95	95	90	89
LPIA	HY01	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	27	27	27	27	27	27	27	27	16
LPIA	HY02	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	0	0	0	0	0	0	0	0	15
MNOR	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	8	8	8	8	8	7	7	9
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	20	111	22	22	22	22	-1	-1	-1
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	146	111	21	21	21	21	112	81	21	-1
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	19	151	158	159	158	158	157	158	81	81
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	21	21	20	21	21	20	20	21	157
SIHY	HY01	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	49	50	49	0
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	0
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	0
SYPS	HY01	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	17	17
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	17	17	17	17	17	17	0
SYPS	HY03	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	17	17
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	17	17	17	17	17	17	0
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	40	85	84	84	84	84	84	84	84	84
TMGR	HY02	31	34	34	34	34	34	33	34	34	34	34	34	34	34	90	90	36	90	88	88	88	88	88	88
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	84	84	84	84	84	84	84	84
TMGR	HY04	27	31	31	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	86	85	85	85	85	33	34	34	0
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	65	-1	-1	-1	-1	182	97	98	-1	-1	-1	-1	-1	-1
UJLI	HY02	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	99	-1	-1	-1	-1	-1	-1	-1	-1
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
UPIA	HY02	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	5
Total Hydro		770	604	605	437	421	408	412	407	459	330	272	292	339	493	349	323	525	761	867	1495	1823	1454	1323	1317
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
BSLS	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
CHLS	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
GBLS	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
GELS	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
GNLS	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
JLSL	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

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
KKLS	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
KRLS	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
SPLS	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
SSLS	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
Total 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
PCUF	CUFG	3	5	3	3	3	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
PCUF	CUFK	3	4	2	4	3	3	3	3	4	2	3	4	3	2	4	4	2	2	3	3	2	4	3	2
Total Co-Gen		6	9	5	7	6	7	7	7	8	5	5	8	8	6	7	7	5	7	7	6	10	4	5	6
Total Gen		14682	14292	13991	13721	13482	13199	13013	12891	12634	12587	12563	12636	12763	13007	12946	12797	13311	14251	14722	14911	15525	15919	16027	16146
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
TIE-HVDC		-29	-30	-30	-30	-30	-30	-29	-29	-30	-30	-28	-28	-29	-29	-29	-29	-30	-30	-29	-29	-29	-30	-28	-28
TIE-PLTG		67	8	30	43	13	35	15	40	-36	-22	64	-17	-56	-11	-6	-50	-33	-50	-108	-211	-46	-67	0	-47
Interconnection		38	-21	0	13	-17	5	-15	11	-64	-51	35	-45	-85	-40	-35	-79	-62	-79	-137	-240	-76	-97	-30	-76
System Total		14647	14316	13994	13711	13502	13197	13031	12883	12701	12641	12531	12684	12851	13050	12984	12879	13376	14333	14862	15154	15604	16019	16060	16225
SRev ST-Coal		159	267	294	294	281	297	291	291	296	292	301	290	268	275	289	291	295	231	133	226	226	141	147	156
SRev CCGT-Gas		1060	988	925	960	1193	1450	1649	1759	2067	1989	1939	1907	1849	1746	1651	1787	1533	1077	781	629	790	885	657	674
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
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
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
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
Syncon		727	727	727	915	915	915	915	951	1102	1102	951	1102	914	827	676	187	0	187	374	374	374	676	763	763
Hydro		207	273	272	152	168	181	177	182	280	130	188	319	121	255	262	137	123	74	230	195	354	509	453	459
S.Reserve Total		2153	2255	2218	2321	2557	2843	3032	3147	3594	3513	3530	3467	3340	3090	3153	3317	2865	2209	1820	1237	1370	1722	1631	1663