

Daily System Generation Summary on Monday

Monday, October 26, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,122 MW
Distillate	0 MW
Total TNB	2,122 MW
Total IPP	17,822 MW
Total Co-Gen	0 MW
Total System	22,507 MW

Generation Mix

Type	MWh	Percentage
Hydro	12,975	3.68 %
Gas	35,860	10.18 %
Total TNB	48,835	13.86 %
ST-Coal	251,420	71.35 %
LSS	1,837	0.52 %
Gas	50,141	14.23 %
Total IPP	303,398	86.10 %
Co-Gen	159	0.05 %
Total Co-Gen	159	0.05 %
Total Generation	352,392	100.01 %
PLTG	-22	-0.01 %
HVDC	46	0.01 %
Interconnection	24	0.01 %
Net Energy	352,368	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	18,236 MW
TNB Generation	2,489 MW
IPP Generation	14,017 MW
Spinning Reserve	1,724 MW
Maximum Demand	16,555 MW
Net Energy	352,368 MWH
Load Factor	88.69 %

Fuel Cost

Total Cost:	42,062,555.42 RM
Cost per Unit	11.94 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	231
Hydro	409
Syncon	693
Thermal	338
Total	1,671

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	48
TJGS	157
Total TNB	205
CBPS	48
NPRI	139
PLPS	53
SGRI	1
Total IPP	241
Total Gas	447
Total Gas Required	447

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	13864	13249	12741	12430	12126	11951	12216	12438	13004	14833	15582	16108	16077	15867	16246	16500	16555	16101	15192	15757	16286	16029	15621	15237

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, November 5, 2020 8:35:51 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Monday

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	696	690	692	691	691	693	692	603	601	549	550	450	453	451	452	451	685	693	693	692	692	692	692	693	691	692	694	693	692	689	694	693	692	693	691	692	691	694	691	692	692	692							
JMAH	U002	685	693	693	693	694	695	694	599	604	552	550	451	453	453	452	452	685	689	695	694	695	694	693	694	690	694	694	696	682	695	692	696	691	695	695	694	696	694	694	694									
JMHE	U001	962	773	780	779	782	778	781	785	779	781	777	779	780	777	780	783	787	778	908	980	980	981	979	981	982	980	980	982	980	981	979	980	980	979	980	974	974	982	985	975	980	975	983	979	983	982	982	979	
JMHE	U002	960	954	777	781	781	783	778	785	778	781	777	777	780	777	780	781	784	777	946	978	981	980	981	980	981	980	982	980	979	980	982	980	979	978	973	975	978	985	976	979	977	985	981	982	979	982	981		
JMJG	U001	666	672	672	679	673	672	666	598	542	504	506	505	505	506	506	469	458	540	613	667	669	668	671	672	671	671	668	670	669	672	665	669	672	662	662	661	612	547	607	671	669	667	668	670	660	592	599	545	
JMJG	U002	671	673	668	672	674	671	678	588	541	496	500	497	498	499	500	474	468	535	614	679	674	672	671	678	674	672	673	674	666	675	673	671	672	677	668	673	615	546	612	677	670	672	673	670	667	594	596	542	
JMJG	U003	666	666	668	665	666	661	663	578	544	512	495	498	495	497	500	453	458	508	585	668	668	667	666	665	668	668	672	666	667	667	666	669	668	669	665	661	612	540	601	637	672	666	671	669	658	594	596	542	
JMJG	U004	944	886	829	770	715	711	711	708	709	708	711	709	711	710	709	710	709	738	739	738	738	766	807	854	854	854	854	852	854	854	854	854	854	854	853	852	801	758	756	725	709	711	711	712	711	711	710		
JMJG	U005	798	801	804	739	728	733	728	731	730	732	729	731	731	729	731	729	724	763	771	773	775	771	775	771	770	770	770	772	772	771	771	769	771	773	771	729	725	733	731	732	730	729	732	730	732	731	730		
PKLG	U003	0	0	0	0	0	29	58	73	57	83	116	130	140	224	240	238	241	252	279	266	269	283	282	283	281	281	283	282	285	281	283	280	281	281	283	298	284	283	283	280	287	281	286	282	286	283			
PKLG	U004	271	275	275	273	276	277	274	275	273	274	276	275	274	273	277	276	272	276	273	275	270	278	276	274	275	275	274	297	279	274	275	275	276	271	278	274	274	274	276	281	277	276	273	273	276	277	284	233	
PKLG	U005	466	465	468	467	467	466	467	467	468	467	466	467	466	467	467	471	464	474	470	470	463	462	467	467	463	466	468	475	478	477	476	475	478	478	468	467	466	467	467	466	468	467	466	467	466	469			
PKLG	U006	447	445	447	450	448	451	447	449	448	449	447	449	449	449	450	445	445	450	446	447	448	449	448	448	448	450	451	451	456	451	455	455	452	455	449	448	444	451	451	449	451	446	448	451	451	447	447	450	447
TBIN	U001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	143	232	277	356	409	525	630	630	669	685	680	680	681	679	680	679	679	679	680	680	680	679	
TBIN	U002	691	693	692	691	694	691	695	693	689	695	692	690	696	690	696	690	692	694	694	689	694	689	694	692	693	692	692	692	691	693	693	694	692	692	692	695	693	684	683	683	680	681	684	686	678	684	682	683	682
TBIN	U003	690	688	685	692	693	691	693	687	691	694	687	691	691	692	695	691	691	691	694	695	694	687	692	691	689	693	686	696	692	691	692	692	690	691	690	691	690	680	680	683	681	681	683	683	683	682			
TBIN	U004	938	851	784	781	782	783	781	782	784	783	783	782	783	783	783	782	783	782	813	902	982	983	983	982	983	982	982	982	981	983	982	982	982	982	982	983	984	982	983	983	983	982	980	983	982	982	984		
Total ST-Coal		10551	10225	9934	9823	9764	9785	9805	9401	9238	9061	9063	8880	8907	8980	9018	8891	9369	9569	10226	10609	10681	10736	10773	10824	10820	10824	10963	11090	11061	12031	12391	13601	14661	14381	14761	14661	12651	10101	11721	13121	13101	12811	13151	12931	12801	10711	10991	10874	
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	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	0	
CBPS	BLK2	365	366	364	365	290	270	227	226	226	224	218	221	218	212	227	219	269	320	350	361	362	362	362	355	363	345	346	360	358	358	343	278	355	349	333	277	224	282	340	353	361	357	360	324	260	222	221		
GLGR	GT01	67	68	68	68	69	68	67	70	68	67	68	67	68	67	68	68	66	68	66	68	67	69	101	100	100	93	66	67	68	68	101	102	101	100	94	66	67	69	83	94	105	85	75	69	68	67	69	68	
GLGR	GT02	68	67	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	101	101	101	101	92	67	68	68	101	101	100	94	67	68	68	84	96	106	85	74	68	68	68	68	68		
GLGR	ST1C	72	73	72	72	72	72	72	73	72	72	72	72	73	72	72	72	72	72	72	72	72	89	91	90	89	73	72	72	90	91	91	91	89	73	72	72	77	91	90	83	81	72	72	72	72	72			
NPRI	BLK1	0	0	0	0	0	0	38	136	131	187	237	277	308	308	299	354	528	527	503	511	528	532	527	529	526	529	511	506	526	535	528	528	527	529	514	507	520	529	529	518	521	527	524	527	515	528	527	457	
NPRI	BLK2	509	499	506	499	499	469	464	476	470	470	454	458	469	464	463	484	526	538	514	517	532	538	532	535	532	534	514	512	533	533	533	532	531	530	518	512	507	520	520	509	512	519	513	518	505	518	518	518	
PCGP	PGRG	602	606	605	601	605	604	594	607	603	599	581	587	599	596	584	612	591	609	570	578	603	608	603	603	602	603	579	576	604	613	604	603	603	604	580	575	590	604	606	589	595	601	593	600	600	603	602	602	
PLPS	GT11	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	113	149	148	150	153	152	154	147	148	120	124	144	144	143	114	113	64	68	120	150	117	119	0	0	0	0	0	
PLPS	GT13	123	126	125	124	124	125	122	126	125	125	120	120	125	125	120	129	124	123	124	122	123	124	123	122	123	123	118	118	109	111	132	132	132	132	103	104	59	63	109	140	106	108	119	125	120	126	125	125	
PLPS	ST18	102	60	59	57	58	58	58	57	58	56	57	58	57	58	57	58	57	58	58	127	142	144	144	144	143	143	143	141	134	133	144	144	144	144	136	130	92	91	131	147	132	133	60	60	60	59	59	59	
SGRI	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	30	40	33	32	32	32	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGRI	ST14	0	0	0	0	0	0	0																																										

Daily MW Generation on Monday

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	9	9	9	9	9	9	9	8	9	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8		
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	9	9	9	9	8	9	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	7		
KNRG	HY01	36	36	36	0	0	0	0	0	0	0	0	0	0	29	36	36	36	36	36	24	25	24	25	24	0	0	
KNRG	HY02	37	37	37	0	0	0	0	0	0	0	0	0	22	37	37	37	37	37	26	26	26	26	25	0	0	0	
KNRG	HY03	36	36	36	37	37	37	38	38	38	37	38	38	37	36	36	36	36	36	25	25	25	25	23	24	25	26	
KNYR	HY01	66	100	88	66	91	66	62	97	72	64	62	63	63	66	61	100	59	99	58	56	62	95	67	67	65	69	
KNYR	HY02	61	63	60	11	0	0	0	0	0	0	0	0	0	93	93	52	58	93	67	66	61	70	55	55	84	93	
KNYR	HY03	54	-1	-1	-1	-1	55	52	53	55	-1	-1	-1	-1	99	94	-1	-1	95	95	95	-1	-1	-1	96	95	95	
LPIA	HY01	18	18	18	18	18	18	18	19	20	20	20	20	20	21	21	21	22	22	3	0	0	0	0	0	0	0	
LPIA	HY02	18	20	20	20	20	20	20	20	20	20	20	20	20	20	21	21	21	15	16	16	16	16	16	18	20	20	
MNOR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3	4	4	7	7		
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	14	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	20	20	20	20	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	20	19	22	-1		
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31		
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	30	30	30	30	0		
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	
TMGR	HY01	62	32	32	32	-1	-1	-1	-1	-1	-1	-1	-1	-1	82	82	82	82	82	33	29	28	-1	-1	-1	-1	-1	
TMGR	HY02	45	86	72	46	74	46	45	82	52	46	43	44	46	45	42	87	44	84	39	41	46	82	46	46	46	46	
TMGR	HY03	32	32	32	0	0	0	0	0	0	0	0	0	0	82	79	81	82	82	82	82	82	32	28	-1	-1	-1	
TMGR	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	83	80	82	83	83	83	83	84	28	0	0	0	0	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	75	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	99	99	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
UPIA	HY01	5	5	6	5	6	6	6	6	5	6	6	5	6	5	5	5	5	5	6	6	6	5	5	5	5	5	
UPIA	HY02	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	
Total Hydro		572	566	538	292	302	305	297	371	332	250	244	266	248	250	260	348	241	1048	910	683	725	945	1016	1045	913	678	
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	0	0	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	7	7	9	11	13	12	12	15	17	14	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	10	12	12	12	14	14	13	9	8	10	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	7	11	23	33	36	26	45	25	25	22	28	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	7	11	14	22	25	28	22	21	16	23	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	5	8	12	17	20	15	16	15	7	6	7	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	6	7	9	8	9	11	11	12	13	16	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	11	16	20	22	31	29	26	25	27	24	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	11	7	8	17	17	21	18	16	10	8	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	5	6	7	9	11	18	21	23	20	16	15	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	8	11	12	12	13	18	13	15	19	25	17	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	16	23	41	46	45	31	45	57	53	48	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	4	6	12	11	12	14	18	17	21	24	16	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	10	38	61	91	140	183	215	241	246	243	264	251	223	186	
PCUF	CUFG	2	3	3	4	4	4	4	4	3	3	3	2	3	3	3	5	4	3	3	3	4	4	5	4	4	3	3
PCUF	CUFK	3	3	3	4	4	4	4	4	3	4	1	3	2	3	2	5	4	3	3	4	4	3	3	2	3	3	3
Total Co-Gen		5	6	6	8	8	8	8	8	6	7	4	5	5	6	5	5	10	8	6	7	8	7	9	8	6	6	5
Total Gen		13919	13548	13262	12927	12746	12537	12471	12266	12175	12041	12033	12115	12221	12372	12438	12433	13018	14145	14901	15302	15593	15932	16124	16215	16077	15874	

Daily MW Generation on Monday

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		
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		30	31	31	29	29	30	30	31	31	31	30	30	30	30	31	31	31	31	31	31	31	31	31	31	31	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29
TIE-PLTG		26	28	-18	-7	-25	5	11	-42	18	11	51	50	-25	-12	-30	-14	-18	-7	37	-3	-20	-60	-15	-52	-31	-5	24	11	-14	-51	-48	4	-14	-38	27	65	46	10	14	61	3	-12	-29	5	23	-15	18	16	
Interconnection		55	59	13	23	5	35	41	-11	49	41	82	80	5	18	0	17	14	23	68	27	11	-30	16	-21	0	-35	-5	-19	-43	-80	-77	-25	-43	-67	-2	35	16	-19	-15	33	-25	-41	-58	-24	-6	-44	-11	-13	
System Total		13864	13489	13249	12904	12741	12502	12430	12277	12126	12000	11951	12035	12216	12354	12438	12416	13004	14122	14833	15275	15582	15962	16108	16236	16077	15909	15867	16020	16246	16498	16500	16505	16555	16516	16101	15542	15192	15107	15757	16286	16286	16258	16029	15920	15621	15476	15237	14893	
SRev ST-Coal		321	575	495	556	558	589	603	859	871	835	846	838	821	866	835	853	720	721	617	373	300	274	282	278	280	276	279	240	274	297	271	340	334	362	324	333	509	507	489	390	361	372	342	364	378	503	486	525	
SRev CCGT-Gas		365	277	275	289	537	427	536	584	622	739	737	677	618	626	668	813	618	519	401	213	153	162	78	74	92	309	319	306	226	197	173	164	248	333	286	655	792	695	309	107	262	213	267	351	501	556	807	759	
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		827	928	928	928	1015	914	914	914	763	1015	1015	864	1015	1015	864	864	1015	489	489	928	777	525	338	338	525	626	626	1016	664	664	763	763	676	525	676	827	1015	1015	914	827	914	914	914	763	1015	1103	1015	1015	
Hydro		283	188	216	247	50	148	156	82	272	102	108	237	104	102	243	155	111	231	419	207	316	348	564	585	530	542	671	296	440	369	349	407	466	562	602	425	251	191	271	127	245	316	318	445	294	133	207	151	
S.Reserve Total		1796	1968	1914	2020	2160	2078	2209	2439	2528	2691	2706	2616	2558	2609	2610	2685	2464	1960	1926	1721	1546	1309	1262	1275	1427	1753	1895	1858	1604	1527	1556	1674	1724	1782	1888	2240	2567	2408	1983	1451	1782	1815	1841	1923	2188	2295	2515	2450	