

Daily System Generation Summary on Sunday

Sunday, September 26, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,126 MW
Distillate	0 MW
Total TNB	2,126 MW
Total IPP	18,050 MW
Total Co-Gen	0 MW
Total System	23,379 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,495	5.02 %
Gas	36,025	10.96 %
Total TNB	52,520	15.97 %
ST-Coal	220,657	67.11 %
LSS	2,852	0.87 %
Gas	52,615	16.00 %
Total IPP	276,124	83.98 %
Co-Gen	1,008	0.31 %
Total Co-Gen	1,008	0.31 %
Total Generation	329,652	100.27 %
PLTG	147	0.04 %
HVDC	725	0.22 %
Interconnection	872	0.27 %
Net Energy	328,780	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:	19:30:00 Hour
Total Set On Bus	16,733 MW
TNB Generation	2,533 MW
IPP Generation	12,428 MW
Spinning Reserve	1,721 MW
Maximum Demand	15,008 MW
Net Energy	328,780 MWH
Load Factor	91.28 %

Fuel Cost

Total Cost:	52,602,484.91 RM
Cost per Unit	15.95 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	680
Hydro	245
Syncon	526
Thermal	731
Total	2,182

Time	Weather	Temperature
Afternoon	Hot	31
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	118
Total TNB	147
CBPS	42
NPRI	149
PGLA	48
PLPS	45
Total IPP	284
Total Gas	431
Total Gas Required	431

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	14955	14275	13751	13348	13053	12667	12561	12097	11767	12364	13014	13483	13742	13872	14215	14436	14412	14016	13683	14220	14952	14900	14604	14399

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, October 6, 2021 10:42:14 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Sunday

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	692	693	691	694	692	689	693	694	693	643	610	601	602	546	460	350	351	351	406	472	552	553	551	498	553	555	569	642	694	692	693	690	694	694	661	604	572	548	645	698	691	692	694	693	692	692	692	689
JMAH	U002	694	693	693	691	696	695	690	696	695	646	644	620	603	554	468	353	357	354	410	485	565	556	555	506	555	554	578	649	697	695	694	692	695	697	678	605	586	530	661	688	687	695	694	689	692	692	693	697
JMHE	U001	980	980	901	901	904	849	851	851	789	783	782	784	780	780	786	780	784	778	779	778	780	810	846	852	849	849	852	854	900	903	899	898	901	893	900	903	895	893	898	961	965	967	970	967	969	962	970	898
JMHE	U002	979	978	900	901	901	886	851	849	828	781	781	782	780	777	784	777	781	779	779	776	782	819	847	852	849	850	851	853	898	902	898	897	902	897	902	902	895	895	899	978	966	966	967	966	969	965	971	898
JMJG	U001	668	666	667	668	668	668	667	671	673	665	667	669	671	671	667	632	596	590	545	548	545	560	590	623	623	623	629	634	631	617	623	632	588	542	556	548	548	547	551	548	546	533	517	520	547	553	517	523
JMJG	U002	673	672	673	672	671	672	671	671	672	673	673	673	668	673	672	631	596	587	546	550	549	548	597	623	629	628	623	628	633	626	633	628	596	542	544	549	553	549	551	545	551	528	515	519	525	546	552	548
JMJG	U003	670	662	666	667	664	666	666	666	660	668	663	667	667	666	667	623	587	579	540	542	545	546	592	618	625	629	624	623	625	621	623	615	592	538	549	542	546	545	546	545	543	515	514	516	516	515	514	519
JMJG	U004	977	975	916	887	888	887	847	791	783	787	785	781	787	785	783	785	787	786	785	793	838	854	858	856	858	857	878	900	900	899	899	899	899	900	898	899	899	898	936	971	971	973	972	972	973	958	903	
PKLG	U005	271	267	267	269	267	268	267	269	267	268	267	269	271	269	270	271	270	271	269	267	271	267	267	269	269	268	267	271	294	360	361	360	359	349	275	269	282	376	464	472	456	397	350	306	265	271	269	
PKLG	U006	442	441	438	440	437	438	438	436	438	427	434	438	438	439	443	446	443	450	446	448	446	445	442	443	442	440	438	442	438	436	441	446	445	446	449	446	449	450	439	441	436	431	430	427	432	432	430	432
TBIN	U001	690	689	691	691	690	691	690	689	690	690	690	690	683	690	641	480	450	452	473	522	568	599	599	601	600	598	638	689	686	689	684	687	686	686	689	651	598	639	656	692	688	687	689	685	690	689	690	689
TBIN	U002	693	693	692	693	691	693	701	691	692	691	692	691	694	689	643	503	454	452	470	517	583	607	601	601	599	600	637	693	689	693	687	690	692	691	690	656	602	627	652	705	684	690	691	688	690	696	689	683
TBIN	U003	689	693	691	688	690	694	690	688	691	689	691	691	694	693	631	483	453	452	461	514	578	604	604	604	603	604	643	690	687	692	685	691	691	695	692	653	599	635	649	694	691	689	694	687	689	693	688	693
TBIN	U004	855	854	854	854	855	853	853	850	854	853	854	852	852	854	854	851	853	852	853	853	854	853	853	855	852	853	853	853	851	853	854	853	854	853	853	853	853	852	851	854	853	854	853	853	853	853	851	
Total ST-Coal		9973	9956	9740	9716	9714	9649	9575	9512	9425	9264	9233	9206	9188	9088	8768	7964	7763	7731	7766	8060	8399	8564	8782	8797	8906	8908	9061	9374	9578	9613	9674	9679	9595	9432	9412	9085	8863	8892	9274	9747	9742	9674	9598	9533	9542	9526	9488	9292
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	366	319	279	221	221	221	225	224	226	220	224	225	225	217	224	223	223	226	235	221	237	217	225	219	248	243	222	225	218	223	219	227	218	222	224	221	220	270	354	353	355	360	359	352	357	341	365	
GLGR	GT01	95	97	94	96	96	96	95	96	97	95	98	96	95	96	96	96	95	95	95	96	94	96	95	95	95	97	94	95	97	94	96	95	96	97	94	95	94	97	96	96	95	95	94	95	95	95		
GLGR	ST1C	40	40	41	41	40	41	41	41	41	40	41	41	40	41	41	41	41	41	41	41	41	41	41	42	41	42	41	42	41	41	40	41	42	41	41	40	41	41	41	41	41	41	39	40	40	40	41	
NPRI	BLK1	512	516	514	515	493	385	311	310	314	311	310	311	310	302	412	517	509	515	516	511	517	501	517	510	516	514	514	513	514	515	501	517	510	517	520	514	507	516	509	499	506	530	526	520	521	529	529	
NPRI	BLK2	514	518	517	518	500	470	334	333	340	340	335	332	335	335	328	334	454	464	518	517	505	521	487	515	514	518	516	498	516	505	516	499	520	511	500	526	514	507	519	487	484	493	527	527	503	521	526	526
PCGP	PGRG	599	604	602	450	262	403	400	260	263	264	260	263	262	259	264	261	261	596	601	605	598	607	587	608	596	606	599	598	600	603	604	587	608	597	601	612	600	591	603	595	584	594	604	597	591	594	602	602
PGLA	GT11	176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PGLA	GT12	174	164	157	157	156	157	158	158	160	159	158	158	157	156	163	158	157	158	158	156	159	152	158	155	157	156	154	157	157	158	154	159	155	158	160	157	154	159	218	214	217	158	156	154	155	158	158	
PGLA	ST10	93	97	91	90	90	91	90	90	90	90	90	90	90	89	91	90	91	91	91	91	91	91	91	91	91	91	91	91	89	91	91	89	91	90	90	89	91	90	109	110	110	89	90	90	90	90	90	
PLPS	GT11	129	130	129	128	129	128	128	129	129	129	129	129	128	129	129	129	129	128	129	128	128	128	128	128	128	128	127	128	130	128	129	128	129	127	127	127	124	127	124	122	125	145	111	109	125	126	128	
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	65	143	147	144	143	133	154	119	115	83	0	0		
PLPS	ST18	56	57	56	55	56	56	57	56	57	56	56	56	57	57	56	56	57	56	57	56	57	57	57	57	58	58	58	57	57	57	57	57	58	57	58	115	142	141	141	140	143	146	133	131	131	59	57	
SPGP	BLK2	724	725	726	724	723	724	725	724	725	600	600	498	498	499	500	724	725	726	726	726	723	723	721	723	725	720	721	723	715	717	708	710	713	709	710	714	725	726	727	723	724	727	724	727	726	727	725	726
TJGS	GT1A	148	145	143	149	147	146	148	140	152	153	145	147	149	145	145	147	146	149	144	155	149	166	140	151	146	175	158	144	141	142	145	144	153	143	148	145	148	146	146	148	135	144	149	146	143	146	145	

Daily MW Generation on Sunday

		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			
KNRG		HY03	21	21	21	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	35	36	36	36	36	0	0	0	0	0	0	23	35	35	35	35	21	21	20	20	21	34	34	21	21	21	20	21	21	21		
KNYR		HY01	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94				
KNYR		HY02	90	89	90	90	89	90	89	90	90	90	89	86	90	90	86	89	58	89	90	91	89	90	87	90	89	91	89	87	91	88	89	88	91	91	56	90	90	89	91	55	87	87	89	89	88	87	90	90		
KNYR		HY03	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	58	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95				
KNYR		HY04	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96				
LPIA		HY01	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	14	14	14	14	14	15	15	15	15	16	16	16	16	16	17	17	17	17			
LPIA		HY02	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	14	14	14	14	14	14	14	14	15	15	15	15	15	16	16	16	16	16	16	16	17	17	17	17			
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	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	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1				
SIHY		HY01	0	0	0	0	0	0	0	0	0	0	0	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	47	47	47	47	47	30	30	30	48	47	47	47	30	
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	0	0	0	0	0	50	50	50	50	50	50	30	30	50	50	50	49	49	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	0	0	0	0	0	0	16	49	50	49	50	45	30	29	30	49	50	49	49	30		
SYPS		HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	16	25	25	25	25	25	16	25	25	0	
SYPS		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	0	0	0	0	0	25	25	25	25	16	25	25	25	25	25	16	25	25	0		
SYPS		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	0	0	0	0	0	0	0	0	0	24	25	25	25	25	25	16	25	25	25	25	25	16	25	25	25	
TMGR		HY01	34	34	34	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	81	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	33	34	31	-1	-1	-1	-1	33	81	81	
TMGR		HY02	45	48	46	52	44	45	47	67	47	88	44	45	68	60	44	55	46	44	45	55	44	68	43	49	45	83	50	47	46	45	45	43	47	44	45	46	44	43	45	45	40	44	57	46	45	69	50	55		
TMGR		HY03	41	44	41	51	40	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
TMGR		HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	31	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
UJLI		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	-1	-1	-1	-1	-1	-1	90	92	92	83	178	179	-1	-1	88	86	-1	-1	-1	87	-1	-1	-1	-1	-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	-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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	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	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
Total Hydro			673	678	673	654	630	551	552	551	531	561	515	513	541	533	534	526	474	540	563	545	531	557	561	556	654	553	538	624	642	743	755	744	841	956	738	849	926	917	851	837	910	936	807	867	832	940	953	858		
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	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	1	4	7	12	15	18	20	20	27	21	16	22	11	4	1	2	2	6	3	1	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	2	4	15	20	25	22	18	27	21	7	17	25	18	23	25	15	15	8	6	2	1	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	2	5	9	14	19	22	25	27	29	30	26	32	18	30	32	26	20	15	4	10	11	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	0	2	7	12	18	20	24	27	34	42	44	23	48	30	5	4	6	4	2	3	5	3	1	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	5	8	12	23	29	12	13	39	44	45	47	22	27	19	7	21	15	29	9	6	2	2	1	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	6	2	13	15	16	27	19	30	30	26	16	20	15	25	16	10	19	21	19	4	1	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	2	9	17	21	28	34	39	44	46	29	8	26	16	22	45	11	45	29	25	9	1	1	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	0	3	8	14	22	30	34	19	33	43	39	50	23	28	11	5	2	0	1	3	9	5	5	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	0	1	5	13	19	26	32	36	39	41	36	14	25	44	21	43	48	8	3	2	3	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	0	1	5	10	16	20	25	28	30	30	30	30	30	13	8	20	13	8	4	10	1	2	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	0	4	8	19	30	18	30	35	52	46	41	52	52	52	44	20	11	27	14	1	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	2	7	13	20	27	30	35	38	39	43	45	44																							

Daily MW Generation on Sunday

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																								
Interconnection		50	19	14	14	35	41	14	30	19	-18	44	21	44	61	55	17	-20	79	39	38	68	-36	46	11	45	-23	-9	10	120	54	75	47	77	77	60	10	75	98	71	7	85	28	11	37	29	31	50	-4
System Total		14955	14552	14275	14024	13751	13604	13348	13119	13053	12832	12667	12565	12561	12427	12097	11711	11767	12089	12364	12723	13014	13393	13483	13656	13742	13750	13872	14198	14215	14390	14436	14375	14412	14246	14016	13847	13683	13742	14220	15008	14952	14997	14900	14775	14604	14558	14399	14202
SRev ST-Coal		324	336	551	555	556	555	559	561	560	666	679	690	686	683	836	986	1007	1000	1002	1005	1003	1000	1010	1002	991	990	967	772	682	691	700	686	694	688	738	929	1005	984	897	470	477	484	507	534	514	516	527	718
SRev CCGT-Gas		604	790	727	935	1163	1158	1368	1516	1485	1612	1639	1737	1727	1733	1753	1397	1180	843	776	751	801	729	861	765	802	720	750	810	797	807	792	850	764	815	811	901	812	734	663	401	445	416	321	418	571	708	608	565
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		
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		
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		
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		
Syncon		525	525	525	612	461	699	699	699	699	699	699	699	699	548	699	699	699	699	699	699	699	699	548	612	512	699	512	512	425	425	425	425	274	612	612	425	425	525	525	525	425	612	461	612	525	525	525	
Hydro		259	254	259	191	326	127	126	103	123	93	139	141	113	120	270	127	179	114	131	119	133	107	163	279	143	257	110	226	208	194	222	233	176	277	332	231	341	350	306	330	382	456	273	354	238	216	203	248
S.Reserve Total		1712	1905	2062	2293	2506	2539	2752	2879	2867	3070	3156	3267	3225	3235	3407	3209	3065	2656	2608	2574	2636	2535	2733	2594	2548	2479	2526	2320	2199	2117	2139	2194	2059	2054	2493	2673	2583	2493	2391	1726	1829	1781	1713	1777	1945	1975	1873	2066