

Daily System Generation Summary on Saturday

Saturday, September 18, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,904 MW
Distillate	0 MW
Total TNB	1,904 MW
Total IPP	17,826 MW
Total Co-Gen	0 MW
Total System	22,350 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,563	4.56 %
Gas	40,491	11.87 %
Total TNB	56,054	16.44 %
ST-Coal	226,696	66.47 %
ST-Gas	919	0.27 %
LSS	3,413	1.00 %
Gas	53,726	15.75 %
Total IPP	284,754	83.50 %
Co-Gen	1,241	0.36 %
Total Co-Gen	1,241	0.36 %
Total Generation	342,049	100.30 %
PLTG	294	0.09 %
EGAT	2	0.00 %
HVDC	723	0.21 %
Interconnection	1,019	0.30 %
Net Energy	341,030	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:	20:00:00 Hour
Total Set On Bus	16,768 MW
TNB Generation	2,641 MW
IPP Generation	12,813 MW
Spinning Reserve	1,263 MW
Maximum Demand	15,450 MW
Net Energy	341,030 MWH
Load Factor	91.97 %

Fuel Cost

Total Cost:	54,352,393.63 RM
Cost per Unit	15.89 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	736
Hydro	164
Syncon	283
Thermal	370
Total	1,553

Time	Weather	Temperature
Afternoon	Rainy	31
Morning	Sunny	25

Gas Usage

Station	(mmcsfd)
GLGR	30
TJGS	123
Total TNB	152
CBPS	46
NPRI	156
PGLA	47
PLPS	38
PKLG	9
Total IPP	296
Total Gas	448
Total Gas Required	448

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	14916	14445	13881	13386	13103	12768	12703	12509	12420	13569	14025	14625	14663	14583	15001	15200	15148	14715	14379	14685	15450	15194	14840	14667

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, October 6, 2021 11:08:21 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Saturday

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	688	642	552	516	503	480	452	473	606	652	653	603	601	600	655	693	691	691	693	692	691	695	692	692	691	691	692	692	693	693	692	692	692	693	693	691	691	673	673	673	673	672						
JMAH	U002	693	691	650	554	523	505	485	453	408	451	453	470	610	652	655	603	605	606	670	702	694	692	693	695	700	696	694	696	695	696	696	700	690	697	695	694	696	697	697	697	695	693	696	673	676	676	674	672	
JMHE	U001	982	931	932	902	900	897	850	848	849	847	831	802	804	800	792	780	781	784	844	899	901	904	919	942	940	942	935	940	939	948	951	948	948	946	952	949	946	952	948	974	971	971	975	946	948	949	949	952	
JMHE	U002	978	933	932	919	902	896	851	849	852	848	821	800	801	802	797	780	780	785	853	897	901	903	920	940	939	944	934	937	937	949	949	949	948	945	952	950	943	949	948	973	978	974	978	948	945	950	948	948	
JMJG	U001	669	668	666	672	673	669	669	671	672	669	667	661	542	500	441	450	449	447	504	584	666	673	673	668	672	677	672	669	677	667	598	550	551	607	683	673	672	671	675	674	674	673	675	670	670	672	672	674	
JMJG	U002	675	676	674	677	674	677	675	675	673	676	673	663	585	497	447	451	453	451	488	576	677	677	670	675	673	676	673	673	677	673	677	672	671	676	672	674	673	676	679	672	672	673	673	677	676	672	679	674	
JMJG	U003	667	671	666	667	672	671	662	668	670	668	668	657	574	480	442	446	447	447	491	570	651	668	670	666	671	666	672	668	668	671	666	662	671	668	660	668	671	662	667	668	670	668	665	666	672	669	668	668	
JMJG	U004	978	944	932	905	900	902	858	854	854	854	853	855	857	856	854	855	858	854	904	901	902	920	941	940	939	940	939	940	951	949	949	949	951	950	950	946	949	960	977	955	900	872	873	872	874	873	873		
PKLG	U003	281	212	154	155	156	155	154	152	155	155	155	155	155	154	156	155	156	162	269	279	276	280	277	279	277	277	277	277	274	275	277	276	278	278	275	275	276	277	278	276	275	277	275	279	282	279	258	187	
PKLG	U006	449	445	449	446	447	449	446	447	446	448	448	448	449	448	446	450	445	448	450	446	448	446	445	445	446	449	449	448	449	446	449	448	452	451	448	449	446	448	449	448	448	449	448	438	446	449	446	447	
TBIN	U001	671	650	649	602	598	551	550	498	517	553	500	498	500	601	633	595	599	629	683	689	687	687	686	686	691	685	689	687	687	686	683	686	687	686	689	685	686	686	685	687	685	686	688	686	684	687	689	686	
TBIN	U002	672	654	652	604	601	554	554	499	513	553	502	501	503	605	634	601	603	631	685	690	690	692	691	692	686	690	692	692	691	690	691	691	691	691	693	691	688	690	691	692	690	693	693	691	691	691	691	691	
TBIN	U003	668	654	650	605	600	553	555	496	516	552	506	502	501	602	632	598	600	633	681	689	690	692	691	692	688	692	692	687	691	688	692	692	690	691	691	691	693	691	688	690	691	692	690	693	693	691	691	691	691
TBIN	U004	986	934	934	903	903	905	854	852	853	852	842	801	803	802	803	803	801	803	821	852	853	854	921	944	943	943	940	941	944	954	952	951	953	952	952	952	952	950	952	974	983	983	982	982	952	954	952	953	950
Total ST-Coal		10061	9751	9582	9163	9065	8887	8643	8414	8394	8576	8372	8284	8288	8452	8387	8170	8174	8278	8841	9460	9729	9757	9872	9955	9959	9971	9951	9946	9960	9985	9922	9866	9870	9931	10008	9995	9977	9988	10032	10107	10078	10021	10005	9863	9875	9889	9863	9781	
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	
PKLG	U002	284	287	269	204	184	99	84	75	76	76	75	74	52	0	0	0	0	0	0	0	0	0	0	0	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		284	287	269	204	184	99	84	75	76	76	75	74	52	0	0	0	0	0	0	0	0	0	0	0	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	230	237	238	297	239	310	295	326	327	259	272	305	317	300	241	292	244	297	244	225	206	281	291	243	219	219	218	309	338	342	325	307	339	375	276	222	226	219	220	320	304	295	292	298	290	372	352	344	
GLGR	GT01	95	96	95	97	96	96	94	95	96	95	94	97	97	95	94	95	95	96	96	97	94	95	95	95	96	95	94	95	95	96	94	94	95	95	96	95	94	95	95	95	97	110	107	95	95	95	96		
GLGR	ST1C	40	40	41	41	40	41	41	42	41	41	40	41	41	41	41	40	40	40	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	40	41		
NPRI	BLK1	508	514	515	528	515	518	515	515	524	512	515	518	521	517	514	514	507	520	514	416	382	515	510	514	449	391	511	514	515	515	511	511	502	510	396	396	398	488	505	514	503	504	509	503	514	515	515		
NPRI	BLK2	496	502	515	538	517	524	519	518	535	514	515	520	524	520	516	518	503	523	518	453	397	485	501	518	451	390	398	510	518	518	518	514	514	452	428	385	383	332	397	496	517	491	493	509	488	518	518	518	
PCGP	PGRG	260	260	261	280	262	265	261	262	270	502	601	605	612	606	599	602	594	610	602	603	583	603	595	599	600	597	596	601	602	603	603	597	603	586	596	603	600	601	601	592	602	587	592	597	591	602	601	603	
PGLA	GT11	157	158	159	163	159	160	158	159	161	158	158	160	161	161	159	159	157	225	162	162	154	162	158	162	159	160	159	162	160	163	162	161	162	159	162	161	162	163	162	160	163	158	155	157	154	159	158	160	
PGLA	ST10	88	88	88	90	88	90	89	90	88	89	88	88	88	88	88	88	88	114	90	90	90	91	91	91	89	91	91	91	91	91	92	91	90	90	90	89	91	91	90	90	90	91	89	88	88	87	88	89	89
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	46	46	34	35	35	127	130	128	127	116	116	115	116	116	111	113	115	116	115	116	111	115	112	111	115	107	111	127	129		
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	0	0	5	75	116	119	116	116	118	116	121	0	0			
PLPS	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	63	113	112	111	112	112	109	108	112	112	113	112	108	112	108	109	113	43	0	0	0		
PLPS	ST18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SPGP	BLK1	714	716	718	716	717	718	720	720	516	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPGP	BLK2	725	726	725	725	725	725	725	725	725	724	727	724	726	722	720</																																		

Daily MW Generation on Saturday

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					
KNRG	HY03	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	21	21	21	21	22	22	22	22	21	21	20	20	21	20	21	34	34				
KNYR	HY01	94	94	94	94	73	94	90	88	94	66	72	94	94	94	64	78	95	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	94	94	94	94	94	94	94	94	94	94	95	94	94	94	94	56	95	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	HY03	96	96	96	95	96	96	96	95	96	96	96	95	95	96	96	57	96	96	96	96	95	96	96	95	96	95	96	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	96			
KNYR	HY04	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	57	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97			
LPIA	HY01	20	20	20	20	20	20	20	20	20	20	20	14	16	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	19	19	20	20	20	20	20	20	20	20	20	20	20	20	20	20				
LPIA	HY02	17	17	17	17	17	17	17	17	17	17	17	14	14	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	17	17	19	19	20	22	23	23	23	23	23	23	23	23	23	23	23	23			
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	3			
PGAU	HY01	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	30	47	47	47	47	47	47	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	50	50	50	50	50	50	30	30	30	30	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	0	0	0	50	50	50	50	50	50	30	29	30	30	30	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	17	17	17	17	17	17	25	25	25	25	25	25	17	0	0	0	0	0	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	17	17	17	17	17	17	25	25	25	25	25	25	17	0	0	0	0	0	0			
SYPS	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	0	25	25	25	25	25	25	17	0	0	0	0	0	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	0	0	25	25	25	25	25	25	17	0	0	0	0	0	0			
TMGR	HY01	34	-1	-1	11	31	-1	-1	-1	-1	34	34	34	-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	HY02	43	44	44	88	54	88	76	72	87	48	58	86	88	88	44	68	44	88	88	58	39	63	44	44	52	45	42	45	51	51	59	45	47	43	44	52	51	46	46	44	45	42	44	46	43	81	69	59	59		
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	34	-1	-1	-1	-1	-1	-1	-1	-1	-1	30	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	39	41	39	41	42	40	77	64	55	55		
UPIA	HY01	6	6	6	6	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	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		
Total Hydro		628	591	571	636	614	637	621	614	671	604	641	626	595	599	525	446	557	599	605	577	550	575	556	555	564	557	553	558	558	571	601	586	588	589	580	644	707	723	789	943	947	938	848	784	723	798	855	816	816		
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	0	0	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	13	12	7	9	10	14	12	10	5	2	5	21	10	9	2	8	4	3	1	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	7	12	20	23	26	30	31	31	32	32	32	32	32	32	32	32	32	18	5	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	2	4	7	17	18	27	30	32	33	32	32	32	32	32	32	32	32	18	5	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	1	6	14	21	28	36	39	20	43	14	44	23	19	36	13	40	6	2	3	4	7	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0
GBLS	LSS1	0	0	0	0	24	34	0	0	0	0	0	0	0	0	0	2	7	15	21	28	21	31	40	44	22	32	15	50	46	17	18	37	36	24	21	10	3	2	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	2	6	9	14	20	13	25	6	28	25	18	30	30	30	25	14	25	20	19	9	7	4	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	1	6	13	21	27	33	38	41	45	47	49	50	50	44	17	47	46	40	34	12	2	0	0	0	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	12	15	22	28	33	44	20	42	27	19	29	17	20	37	34	45	24	17	10	11	5	2	0	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	2	6	7	12	32	34	38	38	32	44	38	46	25	41	47	38	42	6	3	1	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	1	7	14	17	20	21	19	17	18	30	23	13	30	10	5	7	11	15	8	7	5	3	1	0	0	0	0	0	0	0	0	0	0	0	0	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	16	23	30	26	24	37	50	50	50	50	50	49	46	42	37	31	24	17	9	1	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	3	4	8	10	29	36	46	51	45	36	20	19	20	4	3	13	2	7	8	9	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	
SSLS	LSS1	0	0																																																	

Daily MW Generation on Saturday

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																								
System Total		14916	14640	14445	14173	13881	13698	13386	13201	13103	12849	12768	12737	12703	12783	12509	12356	12420	13091	13569	13913	14025	14445	14625	14765	14663	14538	14583	14878	15001	15145	15200	15077	15148	14987	14715	14471	14379	14374	14685	15417	15450	15287	15194	15062	14840	14861	14667	14505
SRev ST-Coal		246	514	625	814	826	823	845	833	829	834	839	866	982	934	928	981	989	975	757	656	523	495	435	352	348	336	356	361	347	322	295	301	297	236	299	312	330	319	275	200	189	246	192	304	292	278	304	319
SRev CCGT-Gas		1120	1099	1072	930	1071	972	1004	981	1101	720	699	649	620	661	735	679	766	361	643	980	1152	806	767	820	1073	1052	927	755	623	454	469	534	487	573	868	1072	1080	1272	1098	599	566	628	630	598	762	671	670	648
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	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SRev ST-Gas		8	5	23	42	41	36	34	34	34	34	34	34	33	0	0	0	0	0	0	0	0	0	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		238	174	325	238	238	325	325	325	238	238	87	238	325	325	325	325	325	325	238	174	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	325	174	325	238	238	238	238	238	87	238		
Hydro		154	255	125	147	169	59	75	82	112	179	293	117	61	57	131	210	99	57	138	230	106	81	100	101	92	99	103	98	249	135	145	160	158	157	166	112	149	284	117	279	275	284	249	213	274	199	293	181
S.Reserve Total		1766	2047	2170	2171	2345	2215	2283	2255	2314	2005	1952	1904	2021	1977	2119	2195	2179	1718	1776	2040	2106	1707	1627	1598	1838	1812	1711	1539	1393	1236	1233	1320	1267	1291	1658	1821	1884	2049	1815	1316	1268	1396	1309	1353	1566	1386	1354	1386