

Daily System Generation Summary on Saturday

Saturday, September 25, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,077 MW
Distillate	0 MW
Total TNB	2,077 MW
Total IPP	18,050 MW
Total Co-Gen	0 MW
Total System	23,330 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,487	4.70 %
Gas	40,510	11.55 %
Total TNB	56,997	16.26 %
ST-Coal	226,723	64.66 %
LSS	3,205	0.91 %
Gas	63,783	18.19 %
Total IPP	293,711	83.77 %
Co-Gen	833	0.24 %
Total Co-Gen	833	0.24 %
Total Generation	351,541	100.26 %
PLTG	196	0.06 %
HVDC	721	0.21 %
Interconnection	917	0.26 %
Net Energy	350,624	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	17,452 MW
TNB Generation	3,025 MW
IPP Generation	13,197 MW
Spinning Reserve	1,196 MW
Maximum Demand	16,207 MW
Net Energy	350,624 MWH
Load Factor	90.14 %

Fuel Cost

Total Cost:	55,951,744.40 RM
Cost per Unit	15.91 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	716
Hydro	242
Syncon	512
Thermal	427
Total	1,897

Time Weather Temperature

Afternoon	Hot	35
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	141

Total TNB 170

CBPS	49
KLPP	3
NPRI	151
PGLA	100
PLPS	42

Total IPP 345

Total Gas 515

Total Gas Required 515

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	15335	14649	14148	13665	13271	12947	12939	12613	12609	13604	14409	14956	14832	14812	15343	15573	15805	15355	14899	15274	16158	15941	15615	15451

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, October 6, 2021 10:43:25 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	600	603	550	552	551	551	483	451	451	451	398	403	401	401	401	402	427	508	551	553	656	695	693	692	692	693	693	693	693	693	692	695	692	692	694	692	693	692	695	693	695	690	691	690	693	692	693		
JMAH	U002	606	604	551	556	557	553	490	456	453	451	402	406	404	405	404	402	417	509	559	556	658	693	693	695	697	696	698	696	693	697	696	695	698	699	694	693	694	692	692	698	695	695	690	691	690	690	693	687	
JMHE	U001	977	980	977	921	898	900	900	848	849	800	798	805	810	803	799	802	801	853	851	900	900	950	952	952	944	953	954	951	972	980	981	978	979	979	980	982	979	980	978	979	979	980	980	976	978	980	980	983	
JMHE	U002	978	981	980	916	899	900	893	850	851	798	797	802	802	801	798	802	799	855	853	896	899	951	950	953	944	952	953	952	978	982	981	977	978	978	979	983	978	981	978	976	981	981	982	978	981	977	980	981	
JMJG	U001	669	672	672	669	668	672	670	674	670	671	672	671	668	672	671	672	666	665	666	667	667	665	670	663	667	667	663	666	668	665	664	664	668	666	665	667	667	668	666	662	666	667	673	667	666	667	668		
JMJG	U002	671	672	671	675	672	672	680	672	673	674	676	672	673	673	671	673	678	677	672	669	672	677	673	674	674	671	673	676	672	673	668	669	670	672	671	676	670	677	673	673	673	673	672	668	670	671	672		
JMJG	U003	667	660	663	666	664	664	663	661	666	666	664	662	666	661	664	660	666	666	668	666	662	665	663	666	664	668	666	667	666	666	666	664	668	666	664	667	668	668	665	666	673	665	666	665	665	665	667		
JMJG	U004	985	982	963	906	904	903	902	845	808	809	806	809	809	809	810	810	809	825	855	903	903	949	945	945	946	944	947	944	974	974	977	981	979	977	978	978	978	978	978	977	979	979	979	977	981	979			
PKLG	U003	153	150	100	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	U005	267	268	269	269	267	268	268	269	269	271	271	269	269	269	268	269	269	267	269	269	269	269	268	268	269	268	271	268	268	269	267	268	268	271	267	267	269	342	419	424	424	424	369	359	326	267	271	268	
PKLG	U006	452	451	446	446	446	445	447	446	440	442	445	443	441	445	433	443	448	450	452	447	443	444	445	448	449	441	440	442	445	443	445	442	442	443	440	441	438	442	443	442	440	439	438	439	437	438	436	442	
TBIN	U001	650	600	599	547	550	550	500	499	451	451	450	398	401	401	401	451	450	554	600	681	691	690	690	691	686	690	690	690	692	689	690	692	689	689	689	690	690	689	688	690	689	691	689	689	687	688	692	689	
TBIN	U002	652	636	603	548	553	551	509	504	490	453	453	403	404	404	403	451	454	557	602	679	692	694	694	692	693	694	691	696	693	692	693	692	693	689	693	693	691	697	692	695	694	689	695	691	691	694	693	692	
TBIN	U003	651	629	600	547	550	552	516	500	485	447	449	402	403	402	403	446	450	556	604	654	691	692	689	694	689	691	691	690	691	690	690	691	691	691	693	690	694	696	690	690	690	694	693	691	689	690	692	691	686
TBIN	U004	980	984	952	903	902	903	898	855	853	852	853	854	852	854	855	855	852	853	854	852	854	853	852	854	853	853	851	851	854	853	852	852	854	852	854	853	853	852	851	850	854	851	849	853	851	853			
Total ST-Coal		9958	9872	9596	9172	9081	9084	8819	8530	8409	8236	8133	8000	8006	7994	7981	8137	8195	8795	9054	9393	9655	9890	9873	9892	9864	9881	9887	9880	9954	9970	9965	9958	9963	9971	9960	9968	9963	10054	10112	10119	10120	10128	10067	10043	9999	9950	9963	9960	
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	0	
CBPS	BLK2	364	370	364	362	369	328	294	322	320	298	296	348	324	331	236	221	236	208	222	223	222	222	219	222	215	220	222	251	309	361	363	364	365	365	362	333	222	228	353	367	366	365	365	363	367	360	367	366	
GLGR	GT01	95	97	95	96	95	95	96	95	96	96	96	96	96	96	96	96	96	96	96	96	96	95	96	95	94	95	97	96	96	95	95	94	95	95	96	95	96	96	96	94	95	96	95	96	96	96	95		
GLGR	ST1C	41	41	41	41	41	41	40	41	41	41	41	41	41	41	41	41	41	40	42	42	41	41	41	40	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	40			
KLPP	GT13	117	116	116	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
KLPP	ST17	64	64	64	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
NPRI	BLK1	497	497	494	495	496	496	495	495	499	497	489	496	495	500	486	397	334	386	349	349	350	448	515	515	436	394	397	514	517	515	515	515	515	515	514	515	517	515	515	516	515	515	516	515	515	514	515	515	
NPRI	BLK2	515	504	503	520	518	491	493	515	520	497	496	520	510	519	437	332	349	324	345	378	409	348	405	423	385	425	334	501	487	516	515	517	520	518	517	517	515	409	518	517	518	518	517	519	518	518	519	520	
PCGP	PGRG	599	603	592	605	602	591	596	598	601	602	597	603	604	604	588	604	608	588	602	602	605	605	605	602	591	598	602	602	604	603	602	600	605	602	602	603	602	604	602	603	603	603	603	604	603	604	602		
PGLA	GT11	218	169	166	169	170	166	168	168	170	169	168	170	169	169	166	170	165	169	169	170	169	168	169	165	167	169	169	169	169	169	169	168	169	169	168	169	169	168	169	217	217	216	216	208	217	177	169		
PGLA	GT12	221	174	171	173	173	170	171	171	173	173	172	174	173	174	170	174	170	169	172	174	174	173	173	173	173	173	172	172	172	173	173	173	172	172	173	173	172	221	221	222	221	221	212	221	180	173			
PGLA	ST10	239	201	204	204	205	202	202	204	203	202	202	203	204	204	203	203	204	202	203	204	205	205	205	204	205	204	205	205	205	205	205	206	205	205	205	205	204	205	205	241	241	240	239	238	238	240	221	204	
PLPS	GT11	129	129	130	128	129	129	129	129	128	129	129	129	129	129	129	129	128	129	128	129	129	129	129	129	129	129	129	129	129	129	129	128	129	129	129	125	127	127	131	130	130	130	116	131	129	129	128		
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	0	0	0	0	0	0	0	0	0	0	57	116	126	126	126	127	112	65	0	0	0		
PLPS	ST18	56	56	57	56	57	56	56	57	56	56	56	56	56	5																																			

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	HY02	36	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	36	36	36	23	23	23	23	23	23																									
KNRG	HY03	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	23	23	22	22	23	23	23																									
KNYR	HY01	75	0	0	0	0	0	0	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94																									
KNYR	HY02	94	94	94	95	94	95	95	94	94	94	94	94	94	94	94	94	94	94	91	91	90	90	91	90	91																									
KNYR	HY03	95	96	96	96	96	96	96	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95																									
KNYR	HY04	96	97	97	97	97	97	97	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96																									
LPJA	HY01	18	18	18	18	18	18	16	16	16	16	16	16	16	17	17	16	15	15	15	15	15	15	14	14	15																									
LPJA	HY02	21	21	21	21	21	19	19	17	17	17	17	17	16	15	15	15	15	15	15	15	14	14	14	14	15																									
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																									
PGAU	HY01	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	19	-1	-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	31	31	31	31	31	31	50	50	50	50	0																									
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	50	50	50	50	50	0																									
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0																									
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	25	25	25	16	0																									
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	0	0	0	17	0	0																									
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	16	17	0	0																									
TMGR	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																									
TMGR	HY02	45	49	43	87	69	41	44	44	44	49	45	56	42	45	63	42	51	74	52	44	56	55	41	63	62																									
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	38	46	69	51	41	51	51	39	58	41	43	46	57																									
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	91	93	93	-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	167	94	92	-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																									
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																									
Total Hydro		573	470	464	509	490	463	486	462	551	551	551	556	552	563	520	544	543	497	590	649	608	590	677	676	671	691	655	660	666	718	686	877	946	991	854	757	780	787	756	1133	1126	1012	920	802	734	846	833	767		
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	1	5	6	14	7	11	20	12	25	18	18	29	21	26	14	16	20	17	12	7	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	3	6	7	12	20	15	23	28	26	31	25	22	8	3	1	1	1	1	1	3	3	1	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	2	3	9	13	17	15	21	28	30	22	20	32	24	28	28	19	23	4	3	2	3	2	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	6	18	20	20	37	13	38	42	47	12	10	20	29	28	29	42	32	33	17	14	6	4	1	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	2	4	9	22	25	33	36	39	43	47	46	26	37	14	37	14	13	8	14	12	6	5	1	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	1	7	11	14	9	12	20	27	29	18	28	16	29	28	26	24	21	21	16	14	9	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	1	5	17	16	24	18	17	31	39	49	41	34	46	38	30	45	15	41	31	12	3	2	1	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	3	9	24	30	34	28	25	38	28	32	39	48	49	41	47	48	5	5	17	7	13	5	0	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	2	5	11	12	26	20	32	33	38	28	39	42	42	31	37	34	30	14	9	9	4	2	1	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	1	4	10	14	19	24	28	27	29	27	30	30	28	30	28	30	25	17	11	16	12	5	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	3	6	12	24	23	22	35	27	52	51	34	52	52	52	44	24	40	40	33	27	21	13	1	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	1	4	9	18	25	25	33	33	37	41	44	35	32	36	38	35	31	28	17	12	8	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	8	11	17	20	24	18	11	13	13	15	29	29	28	26	24	21	6	11	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0		
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	7	5	7	23	30	30	30	30	30	30	30	30	30	30	30	30	30	24	7	2	2	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	19	66	142	214	261	314	352	391	471	445	418	415	460	428	412	374	363	279	221	181	106	63	21	1	0	0	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	25	25	24	25	24	25	25	23	24	22	23	24	24	23	24	25	24	23	22	22	20	21	22	18	19	20	20	19	18	19	19	19	21	19	19	20	20	21	19	20	19	21	22	22	23	23	23	25	25	
PCUF	CUFK	12	14	13	14	13	12	13	14	11	14	13	14	14	14	13	13	15	11	13	12	12	14	11	13	13	13	15	13	12	13	11	12	11	12	13	14	14	12	14	12	13	14	13	12	13	13	12	12		
Total Co-Gen		37	39	37	39	37	37	38	37	35	36	36	38	38	37	38	38	37	38	33	35	32	33	36	29	32	33	33	34	31	31	32	30	33	30	31	33	34	35	31	34	31	34	36	35	35	36	36	37	37	
Total Gen		15416	15020	14712	14386	14171	13955	13682	13480	13360	13146	13028	13069	12960	12993	12706	12516	12605	13197	13624	14117	14424	14709	14939	15051	14847	14876	14768	15130	15318	15611	15617	15804	15805	15818	15447	15080	14920	14933	15348	16256	16218	16093	15972	15800	15639	15579	15478	15317	15317	
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	0	0
TIE-HVDC		31	29	29	32	29	29	29	31	31	30	30	29	29	29	31	31	31	29	30	32																														

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																								
Interconnection		84	26	66	-24	26	63	20	48	92	24	84	36	24	29	96	10	-1	52	23	54	18	36	-14	10	18	-25	-41	50	-22	-4	47	116	3	144	95	52	24	39	77	52	63	48	34	52	27	34	30	46
System Total		15335	14997	14649	14413	14148	13895	13665	13435	13271	13125	12947	13036	12939	12967	12613	12509	12609	13148	13604	14066	14409	14676	14956	15044	14832	14904	14812	15083	15343	15618	15573	15691	15805	15677	15355	15031	14899	14897	15274	16207	16158	16048	15941	15751	15615	15548	15451	15274
SRev ST-Coal		516	568	634	852	866	860	860	868	870	864	862	866	869	870	876	870	859	859	863	747	640	413	426	406	438	418	415	417	343	332	334	342	336	332	338	331	338	319	339	332	330	324	333	347	354	501	396	399
SRev CCGT-Gas		306	530	554	503	381	573	605	497	583	625	640	474	584	549	781	1170	1184	1223	1215	1169	1133	1104	986	965	1113	1095	1170	852	709	468	388	372	364	343	527	732	868	1012	716	194	223	245	215	244	293	201	276	369
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		699	699	699	699	699	699	548	699	699	699	699	699	699	699	699	548	699	612	612	612	612	612	612	612	612	461	612	612	612	612	612	425	425	274	612	613	612	612	612	238	238	238	274	612	525	525	525	
Hydro		122	85	91	46	65	92	220	93	104	104	104	99	103	92	135	262	112	245	152	93	134	152	165	166	322	151	187	182	176	174	206	202	212	343	142	208	216	209	265	437	444	558	475	482	212	187	199	165
S.Reserve Total		1643	1882	1978	2100	2011	2224	2233	2157	2256	2292	2305	2138	2255	2210	2491	2850	2854	2939	2842	2621	2519	2281	2189	2149	2334	2276	2384	2063	1840	1586	1540	1341	1337	1292	1619	1884	2034	2152	1932	1201	1235	1365	1261	1347	1471	1414	1396	1458