

Daily System Generation Summary on Saturday

Saturday, September 12, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,397 MW
Distillate	0 MW
Total TNB	2,397 MW
Total IPP	16,878 MW
Total Co-Gen	0 MW
Total System	21,975 MW

Generation Mix

Type	MWh	Percentage
Hydro	17,684	5.25 %
Gas	34,594	10.27 %
Total TNB	52,278	15.52 %
ST-Coal	237,877	70.62 %
LSS	2,556	0.76 %
Gas	44,530	13.22 %
Total IPP	284,963	84.60 %
Co-Gen	168	0.05 %
Total Co-Gen	168	0.05 %
Total Generation	337,409	100.17 %
PLTG	-153	-0.05 %
HVDC	720	0.21 %
Interconnection	567	0.17 %
Net Energy	336,842	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	17,055 MW
TNB Generation	3,352 MW
IPP Generation	12,145 MW
Spinning Reserve	1,550 MW
Maximum Demand	15,504 MW
Net Energy	336,842 MWH
Load Factor	90.53 %

Fuel Cost

Total Cost:	45,003,151.96 RM
Cost per Unit	13.35 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	319
Hydro	553
Syncon	559
Thermal	267
Total	1,698

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	47
TJGS	166
Total TNB	213
CBPS	48
NPRI	139
PGLA	1
SKSP	12
Total IPP	201
Total Gas	414
Total Gas Required	414

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	14492	13843	13354	12941	12732	12556	12525	12477	12387	13486	14193	14687	14625	14465	14773	14771	14801	14537	14269	14587	15504	15301	14919	14537

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, October 5, 2020 2:03:15 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Saturday

		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	697	693	692	681	701	699	696	697	599	602	603	605	605	694	603	639	692	694	692	694	693	696	692	694	693	693	693	693	693	692	693	695	693	694	692	694	691	694	693	691	693							
JMAH	U002		697	695	691	693	694	697	693	692	693	696	695	693	694	695	577	603	634	698	695	696	695	692	694	693	694	693	693	693	693	694	693	694	694	695	694	692	695	696	695	693	693	695	693						
JMHE	U002		979	904	901	782	778	778	781	781	780	778	778	783	781	780	780	779	780	784	781	938	942	935	942	939	933	940	939	941	937	945	939	939	939	942	937	937	940	943	940	981	981	983	980	980	975	981	978	981	
JMJG	U001		673	673	673	673	672	588	549	439	450	448	448	541	647	687	673	675	672	672	671	668	673	672	674	673	671	677	671	671	669	673	672	670	679	672	676	672	673	668	673	668	672	671	673	669	672	669	673		
JMJG	U002		671	674	672	683	672	671	673	672	673	674	670	668	672	671	674	668	672	673	672	673	672	673	672	671	681	668	671	672	675	674	672	673	677	667	679	670	674	672	673	672	671	673	668	671	668	672			
JMJG	U003		672	667	669	668	668	661	669	670	670	670	668	668	667	669	661	568	589	583	585	580	612	672	667	668	672	668	670	666	668	667	670	668	671	667	671	669	672	666	667	673	668	668	670	670	668	672	672		
JMJG	U004		977	901	904	836	785	785	783	782	783	785	788	785	786	785	783	785	785	782	791	879	940	940	941	939	940	941	940	943	942	942	941	939	939	939	943	939	938	939	943	973	977	978	979	978	979	978	977	978	
JMJG	U005		740	735	738	734	736	735	735	728	733	734	730	733	733	730	732	738	735	737	739	736	738	736	737	736	735	736	737	738	736	738	738	736	733	736	731	733	736	733	732	731	733	734	728	734	734	733	733	733	
PKLG	U003		283	281	284	280	280	282	282	279	281	283	282	280	281	283	283	283	280	282	280	282	280	283	282	280	281	282	279	281	280	280	281	281	277	280	279	280	279	282	282	282	281	280	279	280	278	280	279	280	
PKLG	U004		281	280	280	279	278	278	277	278	279	280	281	279	279	280	278	278	279	279	279	274	278	277	285	278	281	279	278	274	278	279	279	280	278	279	279	271	279	278	276	277	274	274	275	277	277	278			
PKLG	U005		463	464	462	461	461	462	463	463	460	462	463	464	464	462	462	403	376	458	466	466	466	467	464	468	467	461	462	461	460	464	466	464	464	465	462	465	464	464	466	464	462	466	464	464	464	464			
PKLG	U006		446	449	448	449	450	448	449	449	448	446	448	450	449	449	446	448	448	445	449	448	446	448	449	448	444	449	448	448	449	449	445	448	447	448	448	448	448	448	449	448	448	449	448	451	450	448	450		
TBIN	U001		690	689	693	690	691	689	689	689	690	689	689	689	685	690	691	691	688	690	690	691	692	689	690	686	687	691	687	690	690	689	690	690	689	690	689	690	690	684	690	689	689	690	690	693	686	688	690		
TBIN	U002		688	690	693	691	691	693	693	689	692	691	691	691	691	692	691	691	691	690	694	601	307	202	216	210	88	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TBIN	U003		690	692	687	692	687	690	688	689	689	687	690	687	691	690	689	689	689	688	689	689	689	690	683	688	687	688	689	689	685	694	691	692	690	689	690	693	689	690	691	690	689	691	691	686	691	691	692	690	
TBIN	U004		983	902	903	837	784	783	784	783	783	783	781	783	781	783	782	783	783	783	783	790	879	943	941	943	943	946	944	943	942	942	944	941	943	945	943	940	943	941	943	941	982	981	981	983	982	981	982	982	982
Total ST-Coal			106261039310391101401000899419907977998019705970597049800991299099687974199379961102051003099451003510021989498049806981697969815981498209799982497929816980298099796992099209922991699209920991599139929																																																
Total ST-Oil			00																																																

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	37	37	37	37	37	37	37	37	37	37	37	37	0	0	0	0	0	0	0	0	0	0	0	0	38	37	
KNRG	HY03	36	36	36	36	36	36	36	36	36	36	36	36	38	38	38	25	25	26	25	25	24	25	24	24	24	24	36
KNYR	HY01	60	100	70	64	69	64	66	73	79	64	62	73	84	99	73	86	78	99	100	101	101	94	101	67	68	62	100
KNYR	HY02	59	100	89	60	69	60	63	71	86	60	60	79	80	94	-1	-1	60	100	100	100	100	100	100	100	100	98	100
KNYR	HY03	-1	59	60	58	59	58	58	58	58	58	57	58	59	60	59	60	100	101	101	101	101	101	101	100	98	100	100
KNYR	HY04	56	65	65	61	71	71	80	60	77	98	98	97	99	80	101	70	99	63	92	100	100	100	93	95	100	61	58
LPIA	HY01	23	23	23	22	22	22	22	22	22	22	22	22	22	22	22	20	21	22	22	22	22	22	22	22	22	22	22
LPIA	HY02	23	23	23	22	22	22	22	22	22	22	22	22	22	22	22	20	21	22	22	22	22	22	22	22	22	22	22
MNOR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	3	3	3	3
PGAU	HY01	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	21	21	21	109	109	20	21	21	21
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	21	21	111	111	83	82	21	21	21
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	23	24	21	21	21	21	21	21	21
PGAU	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
SIHY	HY01	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
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
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
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
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
SYPS	HY03	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY04	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY01	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
TMGR	HY02	32	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
TMGR	HY04	-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
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
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
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	5	5	5	5	5	5	5	5	5	5
UPIA	HY02	5	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
Total Hydro		620	560	520	476	501	486	499	494	532	513	510	560	544	549	514	454	467	503	550	548	686	863	941	1183	1142	756	738
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
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	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	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	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	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	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	0	0	0
JSLs	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	0	0	0
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	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	0	0	0
MCLS	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	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	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	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	0	0	0
PCUF	CUFG	4	4	2	4	4	4	3	4	4	4	5	4	4	4	3	3	4	3	3	5	3	3	3	3	2	3	3
PCUF	CUFK	4	3	3	4	5	3	3	2	5	4	4	4	4	3	3	2	4	3	3	3	3	3	3	2	1	3	4
Total Co-Gen		8	7	5	8	9	7	7	5	9	8	9	8	9	8	6	6	6	7	6	8	6	6	5	3	6	7	8
Total Gen		14570	14122	13961	13528	13392	13166	12999	12865	12778	12630	12595	12489	12554	12664	12522	12220	12407	12983	13453	13846	14161	14474	14708	14950	14701	14465	14518
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

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																										
TIE-HVDC		29	29	30	30	30	30	29	29	28	31	29	29	29	30	30	30	32	31	31	30	30	31	31	30	30	30	31	31	30	30	29	29	32	29	29	29	30	30	30	29										
TIE-PLTG		52	27	90	10	11	41	32	42	21	56	13	-18	3	13	18	-24	-6	-56	-60	-18	-58	-23	-7	-39	49	-21	27	-84	-41	-52	-36	-39	-46	51	-13	-12	-11	-22	-21	4	-27	-14	16	3	-3	-33	-45	-55		
Interconnection		81	57	121	40	41	71	61	71	49	87	42	11	32	42	48	6	24	-25	-29	13	-28	7	24	-8	79	10	57	-55	-12	-23	-6	-9	-16	82	18	20	19	8	8	33	4	15	45	32	27	-3	-15	-26		
System Total		14492	14068	13843	13491	13354	13098	12941	12797	12732	12546	12556	12481	12525	12625	12477	12218	12387	13012	13486	13837	14193	14470	14687	14961	14625	14458	14465	14596	14773	14868	14771	14757	14801	14773	14537	14403	14269	14270	14587	15439	15504	15415	15301	15166	14919	14726	14537	14371		
SRev ST-Coal		164	389	394	395	420	246	280	408	386	452	383	388	289	177	125	616	551	402	390	344	321	265	265	279	326	346	284	274	294	275	276	270	291	266	298	274	288	281	294	170	170	168	174	170	175	171	177	161		
SRev CCGT-Gas		464	489	606	516	546	688	834	833	984	1016	1048	1204	1218	1226	1329	1357	1271	983	630	582	277	60	105	111	162	257	136	283	159	123	213	461	507	505	645	771	1035	1010	806	399	317	333	422	501	748	852	1031	1169		
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	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	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	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	0	0
Syncon		990	1127	1127	1127	1127	1127	1127	1127	1127	1127	976	1127	1127	1077	1077	1127	1127	1127	1127	548	361	174	174	174	548	548	548	548	548	548	548	548	548	548	548	850	1001	1001	525	525	651	651	651	738	825	825	825			
Hydro		396	171	211	255	230	245	232	237	199	218	221	322	187	182	267	326	183	147	105	107	548	709	818	576	617	629	646	682	620	618	631	618	611	636	643	526	259	130	92	481	539	474	463	532	533	572	541	445		
S.Reserve Total		2014	2201	2363	2318	2348	2306	2473	2605	2696	2813	2779	2890	2821	2712	2798	3376	3132	2659	2252	2160	1694	1395	1362	1140	1279	1780	1614	1787	1621	1564	1668	1897	1957	1955	2134	2119	2432	2422	2193	1575	1551	1626	1710	1854	2107	2333	2574	2600		