

Daily System Generation Summary on Saturday

Saturday, August 29, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,297 MW
Distillate	0 MW
Total TNB	2,297 MW
Total IPP	16,789 MW
Total Co-Gen	0 MW
Total System	21,909 MW

Generation Mix

Type	MWh	Percentage
Hydro	19,094	5.50 %
Gas	36,268	10.46 %
Total TNB	55,362	15.96 %
ST-Coal	243,703	70.26 %
LSS	2,533	0.73 %
Gas	45,657	13.16 %
Total IPP	291,893	84.15 %
Co-Gen	154	0.04 %
Total Co-Gen	154	0.04 %
Total Generation	347,409	100.15 %
PLTG	-307	-0.09 %
HVDC	843	0.24 %
Interconnection	536	0.15 %
Net Energy	346,873	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:	20:30:00 Hour
Total Set On Bus	16,950 MW
TNB Generation	3,534 MW
IPP Generation	12,405 MW
Spinning Reserve	1,005 MW
Maximum Demand	15,921 MW
Net Energy	346,873 MWH
Load Factor	90.78 %

Fuel Cost

Total Cost:	49,324,822.40 RM
Cost per Unit	14.21 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	506
Hydro	260
Syncon	557
Thermal	302
Total	1,625

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	46
SRDG	5
TJGS	187
Total TNB	238

CBPS	48
NPRI	72
PGLA	52
SKSP	48
Total IPP	221
Total Gas	459

Total Gas Required 459

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	15433	14694	14025	13670	13297	13035	12937	12766	12485	13612	14345	14895	14811	14604	14955	15144	15144	14961	14559	14750	15870	15835	15494	15258

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, September 4, 2020 10:37:31 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	691	693	692	693	693	695	692	692	692	693	694	692	693	691	693	600	696	691	692	692	691	691	691	692	691
JMAH	U002	697	695	695	693	695	694	693	696	693	694	694	692	694	693	693	694	694	694	695	700	694	693	700	694	
JMHE	U001	978	978	981	937	780	780	780	780	779	778	780	779	780	776	783	778	781	780	911	950	950	949	950	948	
JMHE	U002	978	979	982	979	816	781	780	781	781	780	778	781	782	781	776	784	779	783	780	911	950	950	951	950	
JMJG	U001	600	603	599	595	599	645	666	672	667	669	673	668	670	672	673	674	671	673	669	670	674	668	668	670	
JMJG	U002	673	676	671	671	677	676	668	672	671	675	674	672	673	671	668	671	672	673	672	673	671	664	673		
JMJG	U003	666	665	660	667	666	665	666	662	670	662	666	668	668	667	677	665	667	662	670	667	673	663	666		
JMJG	U004	977	950	863	783	781	781	780	782	782	781	782	782	782	782	806	863	921	944	944	946	945	944	944		
JMJG	U005	723	630	537	442	373	316	222	126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PKLG	U003	278	280	277	279	278	276	274	275	273	277	277	279	276	275	276	278	279	278	211	207	262	281	279		
PKLG	U004	280	278	276	276	276	272	276	276	278	278	276	277	280	278	293	284	280	280	279	278	277	278	279		
PKLG	U005	468	386	300	217	130	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PKLG	U006	449	448	449	449	446	445	447	449	448	449	448	449	449	450	448	449	452	449	451	450	449	451	450		
TBIN	U001	690	686	690	691	690	690	691	689	691	687	688	689	690	691	690	691	689	691	692	690	690	690	692		
TBIN	U002	694	692	694	695	692	695	693	693	694	695	696	693	695	695	693	695	690	693	695	693	694	696	696		
TBIN	U003	689	691	690	692	690	691	693	690	690	693	689	691	692	690	691	689	692	695	691	691	691	692	690		
TBIN	U004	984	982	983	909	819	782	783	784	782	781	781	783	782	782	782	782	823	913	952	953	953	953	953		
Total ST-Coal		11515	11312	11039	10668	10101	9986	9804	9719	9592	9592	9597	9596	9602	9602	9606	9614	9417	9606	9531	9867	10131	10252	10270	10274	
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		
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		
CBPS	BLK2	216	223	223	223	223	224	224	223	223	224	223	222	223	218	218	226	226	223	275	327	355	362	362	363	
GLGR	GT01	100	101	100	69	68	69	68	67	67	68	67	69	69	67	68	69	69	69	67	67	68	68	67		
GLGR	GT02	101	100	100	67	68	68	68	67	68	67	68	68	67	67	67	67	67	67	67	67	68	67	67		
GLGR	ST1C	91	91	91	76	72	72	72	73	72	72	72	72	72	73	73	72	73	73	73	73	73	73	72		
NPRI	BLK1	507	515	514	490	514	502	521	523	519	422	335	329	425	367	395	329	492	518	515	514	515	514	514		
PCGP	PGRG	491	403	402	404	603	602	603	605	602	603	598	605	602	603	592	208	187	403	605	604	604	603	604		
PGLA	GT12	180	184	184	184	184	184	185	184	184	185	183	184	184	185	181	183	191	191	190	190	190	190	187		
PGLA	ST10	91	89	91	91	91	91	91	91	91	91	90	90	91	91	90	90	92	91	91	91	92	92			
SKSP	BLK1	258	271	255	338	236	251	252	244	240	231	218	230	217	218	217	216	228	236	326	258	231	267	277		
SPGP	BLK2	0	0	0	11	30	73	72	72	72	105	149	149	150	149	183	182	232	232	235	233	233	232	281		
TJGS	GT1A	134	140	135	181	230	174	223	179	187	135	135	141	135	136	134	137	147	143	208	141	143	155	155		
TJGS	GT1B	132	136	134	179	219	175	219	176	183	133	130	134	130	129	128	129	144	138	205	140	139	150	150		
TJGS	ST1C	174	174	174	183	226	217	211	207	214	174	174	171	171	175	169	176	176	205	205	176	191	190			
TJGS	GT2A	148	148	148	148	148	148	148	149	149	149	146	148	148	148	148	148	148	185	185	185	185	185			
TJGS	GT2B	145	145	145	145	145	145	145	144	144	144	144	144	144	144	144	144	144	181	181	181	181	181			
TJGS	ST2C	212	212	212	212	212	212	212	212	212	212	210	210	210	210	210	210	210	235	235	235	235	235			
Total CCGT-Gas		2980	2932	2908	3001	3269	3206	3314	3217	3227	3014	2948	2965	3037	2981	3023	2571	2823	3064	3513	3462	3457	3558	3622		
SRDG	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SRDG	GT05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total 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		
BSIA	HY01	21	21	21	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
BSIA	HY02	23	23	23	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
BSIA	HY03	24	24	24	24	24	13	12	12	12	12	12	12	12	12	13	12	13	12	12	12	12	12	12		
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9		
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9		
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9		
CEND	HY04	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		

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																								
HTRG	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																								
HTRG	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																								
KNRG	HY01	22	23	23	23	22	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
KNRG	HY02	23	23	23	24	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
KNRG	HY03	23	23	23	24	23	24	24	24	24	24	24	24	25	25	25	24	24	0	0	0	0	0	0	0																								
KNYR	HY01	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97																								
KNYR	HY02	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97																								
KNYR	HY03	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97																								
KNYR	HY04	100	100	99	100	101	101	101	101	101	101	100	100	99	59	57	61	101	101	100	100	101	100	101	98																								
LPIA	HY01	16	16	16	15	15	15	15	15	14	14	14	14	14	14	14	14	14	14	14	14	14	14	15	16																								
LPIA	HY02	16	16	16	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	14	12	14																								
MNOR	HY01	6	6	6	6	7	7	3	3	3	3	3	3	3	3	3	3	3	3	3	5	5	4	4	5																								
PGAU	HY01	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1																								
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1																								
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																								
SIHY	HY02	50	50	50	50	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
SIHY	HY03	50	50	50	50	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
SYPS	HY01	17	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
SYPS	HY03	17	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
SYPS	HY04	17	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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																								
TMGR	HY02	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
TMGR	HY03	84	-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	82	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33																								
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																								
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																								
UPIA	HY01	5	5	5	5	5	4	5	5	5	5	5	5	5	4	5	4	5	5	5	5	5	4	4	5																								
UPIA	HY02	6	5	5	5	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5																								
Total Hydro		1008	788	787	788	697	654	556	532	531	531	530	433	336	360	194	194	199	363	436	528	630	668	670	684	662	534	533	534	607	702	812	701	765	780	987	973	811	932	1097	1617	1730	1647	1637	1523	1523	1441	1235	1069
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			
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																							
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																							
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																							
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																							
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																							
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																							
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																							
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																							
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																							
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																							
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																							
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																							
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																							
PCUF	CUFG	4	4	4	4	2	4	3	3	3	5	3	3	4	4	4	4	3	5	4	3	3	3	4	3	4																							
PCUF	CUFK	3	4	4	3	3	4	3	3	3	2	4	2	3	4	2	3	1	4	3	2	0	2	2	4	2	5																						
Total Co-Gen		7	8	7	7	5	8	6	6	6	7	7	5	7	8	6	7	4	9	7	5	3	5	5	8	5	9	7	5	4	5	6	7	7	6	7	11	5	6	7	6	6	7	8	5				
Total Gen		15510	15040	14741	14464	14072	13854	13680	13474	13356	13144	13082	12999	12982	12951	12829	12393	12490	13124	13631	14066	14436	14754	14895	15021	14828	14646	14606	14787	14983	15235	15131	15198	15133	15195	15018	14734	14592	14340	14765	15648	15891	15945	15845	15754	15516	15420	15282	15124

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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