

Daily System Generation Summary on Saturday

Saturday, May 22, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,286 MW
Distillate	0 MW
Total TNB	2,286 MW
Total IPP	17,659 MW
Total Co-Gen	0 MW
Total System	23,341 MW

Generation Mix

Type	MWh	Percentage
Hydro	13,425	3.86 %
Gas	51,676	14.85 %
Total TNB	65,101	18.71 %
ST-Coal	215,049	61.79 %
LSS	3,218	0.92 %
Gas	64,072	18.41 %
Total IPP	282,339	81.12 %
Co-Gen	164	0.05 %
Total Co-Gen	164	0.05 %
Total Generation	347,604	99.88 %
PLTG	-1,158	-0.33 %
HVDC	725	0.21 %
Interconnection	-433	-0.12 %
Net Energy	348,037	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	17,638 MW
TNB Generation	3,340 MW
IPP Generation	13,165 MW
Spinning Reserve	1,125 MW
Maximum Demand	16,536 MW
Net Energy	348,037 MWH
Load Factor	87.70 %

Fuel Cost

Total Cost:	50,483,034.11 RM
Cost per Unit	14.52 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	193
Hydro	262
Syncon	677
Thermal	506
Total	1,638

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	32
TJGS	216
Total TNB	247
CBPS	55
NPRI	160
PLPS	49
Total IPP	264
Total Gas	511
Total Gas Required	511

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	14631	14083	13638	13204	12887	12732	12668	12506	12355	13636	14332	14822	14838	14755	15239	15571	15710	15464	15141	15353	16536	16407	15941	15527

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, June 4, 2021 9:59:44 AM

(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		652	652	550	500	450	337	306	302	301	300	301	301	301	302	300	393	400	382	352	352	350	351	349	351	415	555	653	694	692	693	693	693	692	692	694	693	693	690	694	693	692	694	694							
JMAH	U002		654	652	553	530	452	337	304	302	303	305	302	304	303	304	304	395	403	362	353	355	354	355	355	355	391	562	657	696	697	697	694	688	696	695	693	696	700	696	696	697	695	695	695	697	694					
JMHE	U001		984	928	930	928	873	873	869	872	872	799	800	799	802	801	800	804	799	801	855	900	904	900	939	939	937	941	941	940	938	978	979	983	980	983	979	979	981	981	978	987	978	979	981	982	977	978	976	977		
JMHE	U002		981	929	932	931	873	870	869	871	871	800	799	800	800	800	803	803	798	800	844	899	905	899	941	941	938	939	937	939	937	980	984	981	980	980	980	980	979	982	980	980	986	980	980	983	980	979	979	985	975	
JMJG	U001		662	667	661	668	661	662	563	501	497	491	502	598	672	668	672	635	629	667	661	663	664	661	666	668	671	663	665	666	667	667	667	667	666	673	667	662	664	668	660	662	660	661	658	666	662	661				
JMJG	U002		673	678	674	668	670	671	673	675	675	672	679	677	669	677	667	669	673	673	672	673	672	673	672	673	673	672	672	669	668	673	677	673	672	674	672	675	672	677	668	670	674	675	676	676						
JMJG	U003		662	673	662	667	669	665	664	668	664	663	667	662	666	665	666	640	626	665	668	667	667	666	666	667	673	675	673	672	585	593	596	595	591	596	591	592	597	523	500	537	596	598	657	663	667	657	666	669	662	666
JMJG	U005		895	892	889	892	887	884	873	850	823	806	804	804	800	806	808	806	806	804	805	803	806	800	805	804	801	803	803	804	804	805	803	803	806	804	809	803	829	898	892	892	887	894	887	895	889	891	890	890		
PKLG	U004		159	156	158	157	158	155	155	157	150	159	159	158	155	153	156	155	163	157	159	153	159	159	156	157	158	156	153	153	158	157	156	160	158	155	160	210	271	279	276	276	278	272	277	277	279	240	241	233		
PKLG	U006		272	267	267	270	267	267	268	267	269	270	267	270	267	272	269	265	268	270	266	271	267	269	269	266	269	268	272	271	269	269	269	271	268	269	301	395	445	445	448	452	451	445	448	445	417	408	405			
TBIN	U001		689	688	690	690	689	689	646	568	545	550	499	500	499	500	415	401	449	534	599	570	647	650	673	691	691	691	691	690	687	690	689	688	690	690	689	689	690	688	691	689	689	690	688	689	690					
TBIN	U002		689	692	690	692	692	691	650	589	547	550	502	500	502	502	398	404	440	554	602	583	649	650	642	690	691	693	694	696	691	699	689	699	692	696	692	692	693	692	696	692	690	691	689	695	685	695				
TBIN	U003		688	691	691	689	690	691	646	564	549	550	502	500	500	501	500	412	405	433	538	604	576	649	650	665	700	692	690	691	689	693	690	692	692	690	692	691	690	692	691	692	690	690	691	693	691	693	692	690		
TBIN	U004		984	932	933	874	874	873	874	873	830	802	803	803	804	803	804	802	802	816	903	902	903	944	943	943	943	942	942	943	985	983	984	982	983	983	983	983	981	983	984	983	984	982	983	983	984	983	983			
Total ST-Coal			9644	9497	9280	9156	8905	8665	8360	8059	7897	7718	7586	7677	7739	7752	7753	7411	7380	7565	8160	8540	8434	8583	8715	8742	8844	8851	8745	8863	9177	9489	9569	9570	9577	9574	9576	9578	9749	9893	9949	9984	10010	10019	10018	10015	10007	9962	9939	9928		
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		359	359	360	360	363	363	363	356	362	363	364	360	365	362	359	360	367	362	358	355	360	362	362	360	354	362	358	358	359	358	358	359	365	359	359	362	363	363	369	361	356	363	355	348	360	351	353			
EMPP	BLK1		121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77	653	739	744	659	736	724	735	744	745	739	748	747	749	747	742	741	744	732	746	745	744	730	736	723	713	742	733	728			
GLGR	GT01		104	107	107	106	107	108	108	107	106	105	107	107	110	109	109	97	96	97	104	108	111	108	108	109	109	107	109	109	108	108	108	109	110	109	96	96	97	97	96	108	108	109	109	108	95	95	96			
GLGR	GT02		68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
GLGR	ST1C		80	43	44	44	45	44	44	43	44	43	44	43	45	45	45	41	40	42	45	45	45	44	45	45	46	45	46	45	46	46	46	46	46	46	41	41	41	41	42	45	45	45	45	45	40	41	40			
NPRI	BLK1		520	518	519	512	520	517	520	521	519	526	520	518	518	520	518	524	521	515	518	520	519	520	515	506	516	518	514	511	520	520	518	521	517	518	518	515	518	509	517	508	509	518	507	501	509	504				
NPRI	BLK2		519	515	517	511	518	517	518	518	517	517	525	518	519	518	517	519	516	523	518	514	515	518	518	519	515	504	515	515	512	509	518	516	518	516	515	516	395	499	519	516	505	514	506	500	516	505	506			
PCGP	PGRG		602	599	602	597	602	599	602	602	603	602	609	603	607	603	601	603	601	609	604	594	599	601	602	603	598	585	598	601	598	593	602	602	601	606	599	601	604	598	604	625	602	590	602	588	579	600	587	585		
PLPS	GT11		143	143	144	144	144	143	143	143	144	143	143	143	143	143	128	129	129	129	129	129	129	129	129	129	129	129	129	129	143	142	142	142	139	141	142	142	142	137	141	110	112	145	137	137	115	53	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	112	114	103	137	133	132		
PLPS	ST18		58	58	58	58	57	58	58	58	58	57	57	58	57	58	55	57	56	56	56	56	57	57	56	56	58	58	58	58	58	58	58	58	58	59	55	131	133	145	143	141	202	181	130	145	141	142				
SPGP	BLK1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		718	721	720	720	719	721	719	720	719	720	718	720	721	718	719	719	720	719	719	719	720	718	719	718	721	718	720	719	720	720	717	719	719	717	720	719	718	718	719	720	719	718	720	0	0	0	0			
TJGS	GT1A		225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	158	158	206	222	222	226	226	222	222	226	222	222		
TJGS	GT1B																																																			

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	
HTRG	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	
KNRG	HY01		0	0	0	0	0	0	0	0	0	0	0	0	0	37	37	36	23	23	24	23	23	23	23	23	
KNRG	HY02		0	0	0	0	0	0	0	0	0	0	0	0	0	38	38	38	23	23	23	24	23	22	23	23	
KNRG	HY03		38	38	38	38	38	38	38	38	38	38	38	38	38	36	36	36	23	23	23	24	23	22	23	23	
KNYR	HY01		68	57	-1	-1	-1	-1	-1	-1	61	101	60	59	60	-1	-1	-1	-1	-1	-1	-1	-1	-1	61	61	
KNYR	HY02		65	70	81	71	69	71	99	78	98	100	102	98	98	90	65	71	76	102	102	59	55	101	100	101	
KNYR	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	
KNYR	HY04		-1	-1	-1	-1	-1	-1	-1	-1	-1	102	101	61	-1	-1	-1	-1	103	103	-1	-1	-1	-1	-1	-1	
LPIA	HY01		20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	-1	-1	18	19	19	
LPIA	HY02		20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	-1	-1	20	20	20	20	
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	
PGAU	HY01		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	20	-1	20	20	20	20	
PGAU	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	
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	HY01		0	0	0	0	0	0	0	0	0	0	0	0	0	5	31	31	31	30	31	31	0	0	0	0	
SIHY	HY02		0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30	30	30	30	30	30	
SIHY	HY03		0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	49	50	50	50	30	30	30	30	
SYPS	HY01		0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	25	25	25	25	25	25	25	25	
SYPS	HY02		0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25	25	25	25	25	25	25	
SYPS	HY03		0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	25	25	25	25	25	25	25	
SYPS	HY04		0	0	0	0	0	0	0	0	0	0	0	0	0	17	22	25	25	25	25	25	25	25	25	25	
TMGR	HY01		-1	-1	-1	-1	-1	-1	-1	-1	-1	31	-1	32	-1	-1	-1	-1	84	84	-1	-1	-1	-1	-1	-1	
TMGR	HY02		55	59	74	57	49	57	89	58	84	86	88	85	87	78	61	60	88	88	47	44	86	88	89	44	
TMGR	HY04		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	83	83	82	-1	-1	-1	-1	-1	
UJLI	HY01		-1	93	-1	-1	-1	-1	12	147	182	182	92	-1	-1	-1	-1	-1	89	-1	-1	0	0	0	0	0	
UJLI	HY02		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	134	182	-1	-1	-1	-1	-1	-1	-1	-1	-1	
UPIA	HY01		5	5	5	6	5	6	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	
Total Hydro			317	409	283	268	258	267	351	434	504	603	628	519	448	434	316	458	601	854	872	613	475	524	528	530	
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
BDLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	3	4	5	5	7	12	20	16	21	
BKLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	16	13	17	22	18	29	19	26	27	
BSLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6	6	10	15	22	23	29	30	30	
CHLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	2	10	13	16	20	36	20	39	30	22	45	
GBLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	2	10	13	17	23	28	32	34	38	39	34	
GELS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	8	17	19	23	24	27	27	29	29	
GNLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	2	10	22	22	29	35	30	38	42	28	27	
JSLs	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	7	12	20	24	21	24	10	27	40	
KKLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	11	8	12	15	23	25	25	34	36	
KRLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	4	8	17	19	24	20	22	25	30	
MCLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	10	10	13	20	40	34	38	41	37	
SPLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	13	18	23	22	25	29	35	32	
SSLs	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	8	9	11	19	33	38	35	24	25	
STLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	8	14	19	27	27	29	19	14	15	
TBLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	1	9	17	17	29	21	25	30	28	28	15	
Total LSS			0	0	0	0	0	0	0	0	0	0	0	0	0	15	71	120	169	233	299	350	392	431	443	426	
PCUF	CUFG		2	4	4	3	3	4	4	4	5	4	3	4	3	3	5	4	4	3	3	2	4	3	2	4	

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	
PCUF	CUFK	4	3	3	3	3	5	4	3	3	4	3	2	4	3	3	4	3	5	1	4	3	2	3	4	4	4	3	4	4	3	3	4	1	3	4	4	2	4	6	3	4	2	3	4	6	3	2	2
Total Co-Gen		6	7	7	6	6	9	8	7	8	8	6	6	7	6	6	9	7	9	4	7	8	5	6	6	8	7	5	7	8	6	8	8	5	7	7	7	6	7	9	6	8	5	7	7	10	6	6	6
Total Gen		14591	14332	14003	13838	13599	13370	13159	12929	12843	12758	12689	12631	12649	12632	12499	12197	12325	12989	13622	13857	14266	14621	14803	14798	14792	14727	14704	14901	15192	15380	15570	15535	15673	15626	15454	15223	15191	15036	15393	16343	16513	16513	16397	16238	15969	15724	15508	15346
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	
TIE-HVDC		30	31	31	31	31	30	30	30	30	30	29	29	29	29	29	29	31	31	31	31	31	31	29	29	30	30	29	30	30	30	30	30	30	30	30	30	31	31	31	30	31	31	31	31	31	31	31	
TIE-PLTG		-63	-91	-103	-26	-63	-73	-69	-77	-68	-69	-67	-41	-43	-25	-29	-68	-52	-113	-38	-83	-90	6	-43	-71	-70	-66	-71	-72	-67	-34	-21	-46	-56	-42	-30	-28	30	-13	19	-34	-43	-29	-29	-13	8	-82	-38	-34
Interconnection		-33	-61	-73	5	-32	-43	-39	-46	-38	-39	-37	-11	-13	4	0	-38	-23	-82	-7	-52	-59	37	-13	-41	-40	-35	-41	-43	-37	-4	10	-16	-26	-12	0	2	60	18	50	-4	-13	1	1	18	39	-51	-8	-3
System Total		14631	14400	14083	13840	13638	13420	13204	12981	12887	12803	12732	12648	12668	12634	12506	12242	12355	13078	13636	13916	14332	14591	14822	14845	14838	14768	14755	14954	15239	15394	15571	15562	15710	15649	15464	15231	15141	15028	15353	16357	16536	16522	16407	16231	15941	15786	15527	15360
SRev ST-Coal		320	458	520	547	615	620	840	868	905	932	941	942	875	866	871	933	949	873	877	874	849	822	689	661	558	551	619	613	616	443	359	366	354	353	362	368	313	212	215	182	179	170	171	174	182	211	235	239
SRev CCGT-Gas		231	156	142	167	145	146	135	146	141	146	106	146	120	135	151	271	309	134	158	187	178	155	158	231	174	206	156	154	169	180	142	150	139	122	157	178	422	754	631	367	149	276	235	370	305	173	232	232
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	
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	
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	
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	-2	0	0	1	0	0	0	0	0	0	
Syncon		1052	865	1153	1153	1153	1153	966	966	966	778	764	864	951	1052	1153	966	779	727	878	879	966	966	966	966	779	779	779	779	583	734	527	527	339	367	367	555	706	678	678	403	403	403	403	403	490	252	252	252
Hydro		136	231	69	108	118	109	213	130	60	149	138	147	131	144	160	181	225	254	85	157	208	134	131	129	176	185	138	114	209	140	263	248	292	281	348	279	192	204	262	171	396	404	648	653	518	369	494	540
S.Reserve Total		1739	1710	1884	1975	2031	2028	2154	2110	2072	2005	1949	2099	2077	2197	2335	2351	2262	1988	1998	2097	2201	2077	1944	1987	1687	1721	1692	1660	1577	1522	1291	1291	1124	1123	1234	1380	1633	1848	1784	1123	1127	1254	1457	1600	1495	1005	1213	1263