

Daily System Generation Summary on Saturday

Saturday, April 17, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,119 MW
Distillate	0 MW
Total TNB	2,119 MW
Total IPP	15,969 MW
Total Co-Gen	0 MW
Total System	21,707 MW

Generation Mix

Type	MWh	Percentage
Hydro	12,841	3.70 %
Gas	65,936	19.01 %
Total TNB	78,777	22.72 %
ST-Coal	206,185	59.46 %
LSS	3,103	0.89 %
Gas	55,744	16.07 %
Total IPP	265,032	76.42 %
Co-Gen	171	0.05 %
Total Co-Gen	171	0.05 %
Total Generation	343,980	99.19 %
PLTG	-2,085	-0.60 %
EGAT	-31	-0.01 %
HVDC	-695	-0.20 %
Interconnection	-2,811	-0.81 %
Net Energy	346,791	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	16,887 MW
TNB Generation	3,704 MW
IPP Generation	11,918 MW
Spinning Reserve	1,257 MW
Maximum Demand	15,784 MW
Net Energy	346,791 MWH
Load Factor	91.55 %

Fuel Cost

Total Cost:	50,896,146.97 RM
Cost per Unit	14.80 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	227
Hydro	344
Syncon	617
Thermal	382
Total	1,570

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	51
TJGS	218
Total TNB	269
CBPS	54
NPRI	162
PLPS	45
SKSP	9
Total IPP	270
Total Gas	539
Total Gas Required	539

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	15214	14481	13971	13518	13212	13282	13017	12625	12352	13499	14275	14823	14763	14715	15125	15375	15316	15088	14937	15079	15618	15748	15366	15094

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, May 7, 2021 1:51:59 PM

(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	597	450	351	256	210	210	211	210	212	210	212	210	212	211	311	423	447	452	453	542	605	601	603	603	603	694	693	693	692	691	693	688	694	692	693	693	693	693	693	692	691	692	695	691	693	691	689	
JMAH	U002	695	598	470	352	249	211	214	214	213	213	213	214	213	214	213	317	461	452	456	454	537	605	605	605	604	696	698	694	696	695	693	697	696	701	695	695	696	693	695	696	700	698	693	693	696	697			
JMHE	U001	979	978	981	976	902	897	900	898	902	899	845	796	802	802	801	801	801	800	794	906	899	898	900	898	899	898	898	895	902	980	979	982	980	977	912	648	584	501	499	501	393	306	317	316	172	21	0		
JMHE	U002	980	977	980	975	981	906	904	898	901	903	845	831	801	800	800	801	802	800	799	797	899	900	898	901	899	899	900	900	898	903	981	979	979	981	978	980	978	981	980	980	980	978	980	977	981	980	980		
JMJG	U001	673	673	673	670	671	673	679	672	672	673	671	668	669	669	677	673	671	673	673	668	668	676	676	669	672	673	672	671	672	677	670	677	672	672	672	674	671	672	668	672	673	672	673	671	674	669	675	668	
JMJG	U003	546	544	546	547	545	552	546	543	546	546	547	550	547	548	546	549	546	547	546	548	549	546	542	546	544	545	546	550	557	643	666	669	669	672	669	671	668	664	666	667	668	668	668	672	665	666	672	671	
JMJG	U004	852	855	853	854	854	854	804	807	806	804	806	806	803	805	807	806	807	804	806	837	852	853	854	855	851	854	854	853	855	852	854	854	854	854	854	854	854	854	853	853	854	854	853	855	853	853	853	852	
JMJG	U005	888	883	888	889	890	888	890	794	798	801	798	801	799	804	801	801	801	799	799	798	850	892	892	891	890	890	891	890	889	891	890	891	891	892	883	885	887	887	887	887	888	885	885	886	889	885	882		
PKLG	U003	154	154	143	144	147	145	146	146	147	147	150	147	146	149	147	148	147	148	147	148	147	146	146	146	145	191	206	211	268	266	266	266	266	267	266	266	266	266	268	278	279	277	279	280	277	277	283	275	
PKLG	U004	158	156	155	154	155	154	148	151	148	156	157	155	157	154	155	154	155	154	152	153	153	154	151	153	144	156	201	203	207	267	271	266	270	269	266	266	265	262	279	277	276	273	276	275	277	279	274		
PKLG	U006	254	268	269	267	259	267	269	272	280	271	265	272	267	270	270	267	267	269	270	268	267	270	269	272	268	267	269	270	270	267	269	279	278	279	271	270	309	358	361	396	432	444	448	446	449	447	449	449	
TBIN	U001	690	649	649	650	649	640	501	501	500	499	500	499	498	500	695	689	690	690	689	688	690	690	689	692	691	689	689	687	691	689	689	690	690	689	689	689	688	689	689	689	689	689	687	689	688	689	690	689	
TBIN	U002	684	651	651	652	654	634	590	505	503	503	502	503	502	503	692	696	692	688	690	690	690	692	696	694	695	688	687	693	694	693	698	686	686	692	690	692	691	695	691	685	690	691	693	693	690	690	693	689	
TBIN	U004	982	938	904	902	904	903	904	841	803	802	805	803	802	805	804	804	804	803	802	802	855	893	893	894	893	892	893	893	893	893	963	983	982	982	982	982	984	982	982	982	983	983	981	983	984	983	984	983	984
Total ST-Coal		9226	8921	8612	8383	8116	7934	7755	7450	7431	7429	7314	7254	7221	7232	7617	7615	7606	7806	8058	8057	8420	8517	8685	8820	8810	8791	8807	9088	9112	9218	9581	9610	9603	9614	9591	9534	9298	9284	9197	9255	9300	9198	9120	9140	9118	8980	8850	8799	
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	360	360	357	360	361	361	358	365	360	357	361	361	357	362	355	355	363	361	360	346	353	360	360	358	353	360	360	353	360	368	347	360	367	357	349	356	363	356	356	349	356	350	357	361	346	361	356	363	
EMPP	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	78	177	182	185	186	188		
EMPP	BLK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95	97	96	98	97	97	96	98	97	98	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GLGR	GT01	77	67	67	67	67	68	67	69	68	68	68	69	67	70	92	68	69	106	105	104	67	87	102	101	100	101	100	100	100	100	89	66	68	66	67	67	68	66	101	103	103	103	104	103	102	98	67	68	
GLGR	GT02	76	68	67	67	67	67	68	66	67	68	68	67	67	68	90	67	68	105	104	103	67	85	101	100	100	99	100	99	99	88	67	67	67	67	67	68	67	101	103	103	103	103	103	96	67	67			
GLGR	ST1C	82	72	72	72	72	72	72	71	71	71	72	72	71	82	73	71	92	93	93	74	82	89	91	91	91	91	91	91	91	89	73	72	72	72	72	73	73	72	88	93	93	94	94	94	93	73	72		
NPRI	BLK1	524	524	528	527	529	527	530	535	530	532	530	525	528	533	531	530	530	534	529	521	527	530	529	522	527	524	517	521	529	514	527	527	529	514	524	526	527	526	509	528	520	526	524	514	529	529	530		
NPRI	BLK2	522	514	527	526	527	526	530	534	520	526	524	521	521	526	523	524	523	526	529	479	500	521	523	523	514	521	517	494	514	526	479	520	520	523	484	520	523	522	520	476	522	499	520	516	482	520	524	524	
PCGP	PGRG	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600		
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	6	131	137	141	137	141	139	137	119	120	119	
PLPS	GT13	122	124	125	125	124	124	124	124	124	124	125	124	124	124	124	124	145	141	125	138	139	139	138	139	139	139	142	134	139	140	139	134	123	123	122	121	134	144	136	139	138	135	114	107	108				
PLPS	ST18	58	59	58	58	58	58	58	58	58	58	58	58	58	58	58	58	60	59	58	59	60	59	59	60	59	59	58	59	59	60	59	60	59	59	60	61	132	143	144	143	143	143	144	136	134	133			
SKSP	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	6	13	40	94	174	335	275	248	219	237	329	258			
SPGP	BLK1	717	718	717	718	719	719	720	720	719	717	719	721	720	691	358	358	360	361	359	718	720	717	719	717	253	252	203	204	204	6	340	449	358	360	359	359	357	357	357	358	358	359	357	357	359	356	357	358	
SPGP	BLK2	716	720	718	719	720	718	720	719	719	718	720	721	721	717																																			

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	-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	36	22	22	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY02	37	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY03	36	24	24	24	24	23	23	24	23	24	23	23	23	24	24	37	37	37	37	37	37	37	37	37
KNYR	HY01	77	94	97	97	98	95	98	99	99	98	65	63	83	71	65	65	98	102	59	64	63	64	69	61
KNYR	HY02	59	-1	-1	-1	-1	-1	-1	-1	99	58	-1	-1	-1	-1	100	100	55	-1	-1	-1	-1	-1	-1	-1
KNYR	HY03	58	99	100	100	99	98	100	101	101	100	100	98	98	58	58	-1	-1	-1	55	58	57	58	-1	-1
KNYR	HY04	58	100	102	102	100	100	101	102	102	101	100	100	58	0	0	0	0	0	0	0	0	0	0	0
LPIA	HY01	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
LPIA	HY02	14	14	14	14	14	15	15	15	15	15	15	14	14	14	14	14	15	5	0	0	0	0	0	0
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	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY02	-1	-1	-1	-1	-1	-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	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
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
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
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
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
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
TMGR	HY01	33	42	56	67	47	59	42	86	51	86	86	43	41	63	51	44	44	82	86	37	41	42	43	48
TMGR	HY02	2	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	-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	HY04	41	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UJLI	HY01	91	-1	-1	-1	-1	-1	-1	-1	83	92	92	-1	-1	-1	-1	-1	93	-1	86	-1	-1	-1	-1	-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
UPIA	HY02	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		664	502	505	516	494	455	444	492	456	491	673	561	497	385	336	210	210	383	510	361	398	312	289	240
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
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
BKLS	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
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
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
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
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
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
JLSL	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
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
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
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
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
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
STLS	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
TBLS	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
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
PCUF	CUFG	3	5	4	4	3	5	5	4	3	4	3	4	3	5	4	3	4	4	4	3	3	4	4	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	2	4	3	3	4	3	3	4	3	3	3	3	6	6	4	3	3	5	3	3	3	4	4	2	3	3	3	3	2	4	3	3	4	4	2	4	4	3	3	4	4	2	3	3	4	3		
Total Co-Gen		5	9	7	7	7	8	8	8	6	7	6	7	9	11	9	8	7	8	7	7	7	7	9	6	7	9	7	6	6	4	7	6	7	8	8	6	8	8	7	6	7	8	5	7	6	6	7	7
Total Gen		15130	14674	14337	14116	13835	13605	13423	13179	13098	13131	13208	13031	12928	12813	12509	12146	12237	12893	13342	13938	14191	14515	14768	14830	14651	14649	14572	14879	15001	15092	15240	15218	15136	15260	15018	14897	14806	14828	14984	15258	15477	15630	15618	15566	15265	15103	14957	14716
TIE-EGAT		-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	-1	-1	-1	-1	-1	-1	-1	-1	-1			
TIE-HVDC		-29	-29	-29	-30	-30	-29	-29	-29	-28	-28	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	
TIE-PLTG		-51	-81	-111	-93	-101	-62	-61	-109	-81	-109	-41	-51	-55	-112	-83	-67	-80	-108	-123	-1	-49	-64	-21	-55	-80	-83	-110	-87	-89	-150	-101	-122	-147	-78	-37	-90	-98	-106	-61	-66	-107	-121	-97	-130	-67	-139	-104	-131
Interconnection		-81	-111	-141	-124	-132	-92	-91	-139	-111	-138	-71	-81	-85	-141	-112	-98	-111	-139	-153	-32	-80	-94	-51	-85	-109	-113	-140	-118	-120	-180	-131	-153	-177	-109	-67	-121	-128	-137	-92	-97	-138	-151	-127	-160	-98	-169	-134	-162
System Total		15214	14788	14481	14244	13971	13701	13518	13321	13212	13272	13282	13116	13017	12958	12625	12248	12352	13036	13499	13974	14275	14613	14823	14918	14763	14765	14715	15001	15125	15276	15375	15374	15316	15372	15088	15021	14937	14968	15079	15358	15618	15784	15748	15729	15366	15275	15094	14881
SRev ST-Coal		226	432	455	466	540	634	643	800	779	787	801	792	796	789	663	665	675	672	678	681	591	530	533	529	533	547	541	402	393	442	177	148	155	172	195	232	188	297	384	176	131	233	166	110	132	191	181	132
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 CCGT-Gas		186	179	208	211	203	213	205	192	216	217	206	212	220	236	154	404	361	125	84	217	422	159	114	120	148	126	183	230	188	198	353	370	434	197	293	382	565	703	542	483	290	173	189	216	330	286	279	428
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 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 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		521	896	896	896	896	896	896	896	896	608	608	709	745	658	997	997	896	709	795	703	890	890	991	428	529	529	428	428	428	652	840	1057	991	991	804	804	630	630	428	615	151	151	565	576	915	764	664	
Hydro		390	177	126	114	136	95	106	59	95	60	166	277	240	316	352	139	139	67	152	215	265	135	158	107	421	369	372	390	349	210	442	336	136	202	255	294	339	437	492	541	374	701	694	550	508	276	403	197
S.Reserve Total		1323	1684	1685	1687	1775	1838	1850	1947	1986	1960	1781	1889	1965	2086	1827	2205	2172	1760	1623	1908	1986	1719	1695	1747	1530	1571	1625	1450	1358	1278	1624	1694	1782	1562	1734	1712	1896	2067	2048	1628	1410	1258	1200	1441	1546	1668	1627	1421