

Daily System Generation Summary on Saturday

Saturday, June 19, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,340 MW
Distillate	0 MW
Total TNB	2,340 MW
Total IPP	17,079 MW
Total Co-Gen	0 MW
Total System	23,564 MW

Generation Mix

Type	MWh	Percentage
Hydro	11,805	3.81 %
Gas	70,737	22.86 %
Total TNB	82,542	26.67 %
ST-Coal	165,218	53.39 %
LSS	2,907	0.94 %
Gas	58,782	18.99 %
Total IPP	226,907	73.32 %
Co-Gen	163	0.05 %
Total Co-Gen	163	0.05 %
Total Generation	309,612	100.05 %
PLTG	-569	-0.18 %
HVDC	715	0.23 %
Interconnection	146	0.05 %
Net Energy	309,466	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	15,598 MW
TNB Generation	4,321 MW
IPP Generation	9,750 MW
Spinning Reserve	1,522 MW
Maximum Demand	14,059 MW
Net Energy	309,466 MWH
Load Factor	91.72 %

Fuel Cost

Total Cost:	44,009,620.71 RM
Cost per Unit	14.22 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	476
Hydro	151
Syncon	773
Thermal	491
Total	1,891

Time	Weather	Temperature
Afternoon	Hot	31
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	29
SRDG	2
TJGS	220
Total TNB	252
CBPS	55
NPRI	161
SKSP	54
YPKA	63
Total IPP	332
Total Gas	584
Total Gas Required	584

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	14017	13408	12918	12417	12069	11805	11757	11515	11230	11934	12404	12762	12862	12962	13336	13497	13394	13247	12953	13251	14059	13944	13840	13753

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, July 5, 2021 5:33:56 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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	695	693	692	667	603	499	347	353	351	352	351	353	352	350	351	351	354	399	454	452	503	504	501	501	501	503	655	699	693	692	693	691	692	692	692	692	691	691	692	690	693	691	693	692	693	691		
JMHE	U001	950	951	950	902	851	851	852	851	850	801	801	800	801	780	782	785	782	780	781	783	779	782	779	839	850	849	852	852	850	850	854	853	851	850	852	850	851	849	851	851	852	851	854	851	852	850	850	
JMHE	U002	951	951	952	900	850	852	849	850	850	801	802	798	780	784	781	782	781	782	778	778	780	781	801	849	852	851	850	850	851	850	852	852	850	849	851	847	852	848	852	850	853	850	851	851	849	849	848	
JMUG	U001	670	666	666	665	671	664	666	668	672	667	667	668	666	663	649	568	541	573	639	676	662	672	668	667	671	664	667	670	662	668	668	666	662	670	664	667	663	668	676	664	666	666	666	666	667	662	666	
JMJG	U002	674	671	668	669	676	674	663	671	677	666	667	677	671	668	649	569	547	590	669	672	682	665	672	673	674	675	672	673	676	672	680	669	671	675	671	668	672	677	670	673	668	663	667	661	668	668	660	
JMUG	U003	666	664	661	668	662	666	668	663	669	667	662	668	666	665	654	570	546	592	668	661	671	671	664	670	668	665	667	668	663	668	665	667	660	666	667	668	662	667	666	665	666	666	669	666	667	668	666	670
PKLG	U003	279	280	256	158	155	155	157	155	157	155	157	155	157	155	155	155	159	203	257	279	279	279	278	278	277	276	277	276	277	277	279	279	279	276	277	279	279	279	277	277	278	276	278	280	278	278		
PKLG	U006	447	446	425	365	273	268	269	271	268	268	269	268	267	269	272	270	267	270	306	377	440	448	446	447	449	446	449	449	447	446	449	449	449	449	447	449	446	446	446	448	448	449	417	427	444	446	449	449
TBIN	U001	687	686	687	687	686	649	596	545	402	399	399	399	398	400	399	398	399	400	414	450	450	499	551	573	569	568	601	685	693	687	689	690	692	689	690	690	690	691	687	690	691	691	686	690	690	692	693	691
TBIN	U002	697	691	687	689	694	654	606	556	409	401	403	403	404	403	402	402	401	403	422	452	451	500	552	562	562	564	603	678	690	695	692	692	693	693														

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		
KNYR	HY02	99	58	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	99	99	99	99	100	0	0	0	60	99	99	98	98	98	98	99	99	99		
KNYR	HY03	100	60	59	59	59	-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	100	100	99	99	99	99	100	100	100			
KNYR	HY04	99	59	59	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	100	99	99	99	0	0	0	60	101	101	98	99	99	98	101	100	100			
LPIA	HY01	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	17	17	17	17	17	15	15	15	15	15	15	18	19	19	22	22	20	15	15	16	16	16	18	18	18	18		
LPIA	HY02	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	17	17	17	17	17	15	15	15	15	15	15	18	19	19	22	22	20	15	15	16	16	12	10	10	10	10		
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	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	-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				
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	0	0	0	0	0	0	0	0	0	0	0	0	0	31	50	50	48	47	47	31	31	31		
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	0	0	0	0	0	0	0	0	0	0	0	2	50	50	50	30	30	0			
SIHY	HY03	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	30	30	50	50	50	50	30	30	0		
SYPS	HY01	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25	25	17	17	17		
SYPS	HY02	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25	25	17	17	17		
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	0	0	0	0	0	0	0	0	0	0	0	0	0	17	24	25	25	25	25	17	17	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	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25	25	17	17	0		
TMGR	HY01	62	2	-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	33	33	34	34	34	34	-1	-1	-1	-1	84	84	84	84	84	84	84	84	84		
TMGR	HY02	64	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	2			
TMGR	HY03	60	32	32	32	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	32	32	-1	-1	-1	-1	-1	-1	83	84	84	83	83	83	83	84	41	41		
TMGR	HY04	41	65	41	43	56	59	41	40	41	42	52	42	42	41	42	40	41	41	63	43	41	41	42	42	42	42	41	61	42	41	42	42	41	51	42	42	51	85	84	42	44	42	42	41	83	41		
UJLI	HY01	89	101	88	91	-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	96	94	94	94	92	92	96	93	89		
UJLI	HY02	93	-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				
UPIA	HY02	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7				
Total Hydro		1000	642	502	449	288	231	222	201	235	227	249	204	221	239	211	198	199	236	291	265	243	268	259	232	247	228	218	235	272	421	547	578	586	553	474	330	286	321	525	1244	1256	1139	1180	1147	1140	1112	1066	934
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		
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	10	14	17	19	19	16	25	24	23	10	7	14	4	3	4	3	3	2	1	1	1	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	3	7	12	16	21	25	27	30	7	15	28	30	30	12	10	11	13	5	2	1	1	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	3	5	9	20	20	26	26	28	30	30	30	30	29	25	6	3	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	5	9	17	13	20	29	28	34	39	33	28	23	31	23	26	35	15	13	8	8	8	3	1	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	2	4	6	10	16	28	25	35	38	40	39	32	29	30	36	37	18	20	22	12	8	3	1	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	1	5	8	13	17	19	21	23	25	25	26	25	17	15	11	14	6	2	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	1	6	5	14	11	18	30	24	38	27	32	26	49	33	44	14	41	4	4	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	0	1	4	8	15	11	13	15	34	25	50	24	33	24	19	22	26	22	19	20	13	15	9	5	1	0	0	0	0	0	0	0	0		
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	10	23	29	38	33	36	37	40	38	41	42	41	15	16	1	1	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	0	1	4	3	11	15	25	26	27	30	30	15	30	14	23	7	3	2	1	1	1	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	1	3	7	11	15	22	34	35	41	44	46	49	46	43	27	7	3	16	11	9	10	5	4	0	0	0	0	0	0	0	0			
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	12	20	26	28	30	38	51	42	49	21	36	26	46	46	42	12	13	27	11	1	2	1	0	0	0	0	0	0	0	0		
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	14	19	25	29	33	35	38	38	42	44	26	20	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	1	4	8	12	15	15	22	24	19	18	23	28	15	21	28	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0			
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	10	20	17	26	27	30	29	21	19	12	14	26	22	18	17	10	10	7	7	3	1	0	0	0	0	0	0	0	0		
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	56	104	188	251	317	395	423	476	481	470	437	445	391	408	262	233	137	117	93	65	36	20	5	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																									
System Total		14017	13678	13408	13175	12918	12669	12417	12251	12069	11934	11805	11739	11757	11711	11515	11200	11230	11633	11934	12204	12404	12627	12762	12870	12862	12903	12962	13195	13336	13519	13497	13504	13394	13338	13247	13068	12953	13076	13251	14000	14059	13970	13944	13846	13840	13827	13753	13571	
SRev ST-Coal		228	244	324	493	523	606	657	649	635	653	657	642	649	656	700	789	789	790	676	641	573	572	578	570	564	580	574	467	436	384	385	393	398	386	399	394	402	384	385	397	395	398	431	420	393	396	385	398	
SRev CCGT-Gas		116	106	144	147	130	145	141	162	136	127	286	302	296	295	418	474	453	260	455	453	469	456	486	491	573	459	460	462	456	459	479	461	458	458	459	454	467	460	438	439	464	459	454	461	462	440	477	484	
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	-1	19	37	105	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		277	464	551	551	825	926	926	926	926	926	926	926	926	926	926	926	926	926	926	926	926	926	926	926	926	926	926	926	839	752	752	752	839	839	926	926	926	926	464	338	464	464	464	464	464	464	464		
Hydro		510	581	419	372	159	115	124	145	110	118	96	141	125	107	135	148	147	110	55	81	103	78	87	114	99	118	128	111	74	212	173	192	184	130	109	66	110	75	199	217	331	197	206	239	246	274	407	389	
S.Reserve Total		1131	1395	1438	1563	1637	1792	1848	1882	1807	1824	1965	2011	1996	1984	2179	2337	2315	2086	2112	2101	2071	2032	2077	2101	2162	2083	2088	1966	1892	1894	1789	1798	1792	1813	1806	1840	1905	1845	1948	1517	1527	1537	1592	1689	1565	1574	1733	1735	