

Daily System Generation Summary on Monday

Monday, July 27, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,311 MW
Distillate	0 MW
Total TNB	2,311 MW
Total IPP	18,105 MW
Total Co-Gen	0 MW
Total System	22,885 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,636	4.71 %
Gas	27,046	7.65 %
Total TNB	43,682	12.35 %
ST-Coal	235,937	66.73 %
LSS	1,970	0.56 %
Gas	72,175	20.41 %
Total IPP	310,082	87.70 %
Co-Gen	269	0.08 %
Total Co-Gen	269	0.08 %
Total Generation	354,033	100.13 %
PLTG	-166	-0.05 %
HVDC	632	0.18 %
Interconnection	466	0.13 %
Net Energy	353,567	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:	14:30:00 Hour
Total Set On Bus	18,369 MW
TNB Generation	2,309 MW
IPP Generation	14,556 MW
Spinning Reserve	1,496 MW
Maximum Demand	16,938 MW
Net Energy	353,567 MWH
Load Factor	86.98 %

Fuel Cost

Total Cost:	53,216,204.15 RM
Cost per Unit	15.03 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	525
Hydro	282
Syncon	796
Thermal	193
Total	1,796

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	26

Gas Usage

Station	(mmcsfd)
GLGR	48
TJGS	150
Total TNB	198
CBPS	49
NPRI	136
PGLA	104
PLPS	44
SGB3	23
SKSP	34
YPKA	30
Total IPP	421
Total Gas	618
Total Gas Required	618

Alternate Fuel Usage

Station	(mmcsfd)
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	13976	13381	12826	12356	12225	12018	12416	12476	13133	14908	15832	16345	16310	15962	16554	16807	16756	16349	15228	14950	16049	15994	15343	14937

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, August 05, 2020 12:41:20 PM

(Ir. Shanmugam Thoppalan)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Monday

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	692	703	693	693	693	694	690	692	693	693	693	691	696	692	694	694	693	692	692	692	692	690	693	694	693	693	694	692	700	689	692	691	692																
JMAH	U002	690	696	695	692	693	699	694	693	693	621	603	603	603	696	644	652	656	694	693	693	690	694	696	694	693	697	693	694	694	693	695	691	694	692	693														
JMHE	U001	949	952	948	850	779	781	774	782	781	779	778	781	779	774	777	782	782	899	976	978	981	979	981	980	979	980	979	977	980	984	977	977	976	982	980														
JMHE	U002	947	953	949	852	778	779	776	780	785	778	778	781	779	778	779	781	782	904	981	979	980	979	980	983	978	981	981	977	981	980	981	977	976	977	983	979													
JMJG	U001	679	673	672	672	671	672	671	669	669	670	672	673	673	670	676	670	675	672	672	679	666	673	675	667	668	672	671	672	671	677	672	676	672	673	668	667													
JMJG	U002	678	648	648	681	675	675	676	674	681	678	677	677	681	678	674	681	677	678	675	671	673	678	676	682	664	673	672	679	662	683	660	678	672	673	674	671	679	667											
JMJG	U003	665	666	667	665	662	665	666	663	667	667	667	662	671	667	668	670	668	667	668	667	674	666	667	667	665	668	664	665	657	667	663	673	654	672	661	667	666	663											
JMJG	U004	952	944	917	833	785	788	789	788	789	786	789	787	788	789	791	787	790	829	916	981	977	976	977	979	983	981	980	977	976	980	977	978	979	979	982	980	980	981											
PKLG	U003	284	283	282	282	281	280	279	281	282	281	280	283	280	282	281	280	280	283	280	284	284	281	283	281	279	284	275	284	279	278	281	282	283	284	284	282	281	281											
PKLG	U004	279	271	278	276	285	278	276	275	276	275	278	278	278	278	275	273	277	277	277	277	277	276	275	278	277	275	275	278	278	292	281	278	278	280	279	276	276												
PKLG	U005	151	152	151	151	149	154	151	171	208	227	282	313	382	459	462	466	464	468	466	466	463	464	463	464	467	466	466	466	466	463	464	463	466	463	466	464	461	468											
PKLG	U006	450	450	451	451	451	449	451	451	451	450	451	451	451	450	445	449	446	446	447	446	445	447	446	449	445	440	449	449	451	449	449	445	449	446	448	448	448												
TBIN	U001	686	689	688	689	689	691	689	686	688	689	689	691	687	688	688	689	689	689	689	690	688	690	684	690	689	689	690	689	689	689	689	689	690	688	689	686	690	686											
TBIN	U003	690	692	692	691	690	694	689	687	689	691	692	691	690	690	692	691	688	691	688	690	692	690	690	691	691	691	691	690	692	694	691	689	689	691	692	692	689	689											
TBIN	U004	952	930	841	783	782	783	782	782	784	781	782	782	782	783	782	783	782	783	782	783	827	916	981	983	982	983	982	984	982	983	983	984	982	980	983	982	981	983	981										
Total ST-Coal		9744	9702	9572	9261	9063	9082	9053	9074	9136	9066	9019	9055	9202	9373	9288	9307	9307	9719	10034	10168	10179	10160	10171	10160	10167	10149	10185	10177	10181	10157	10168	10167	10168	10164	10163	10169	10165	10181	10155	10184	10164	10145	10139	10162	10165				
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					
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					
CBPS	BLK2	322	263	212	216	211	218	211	214	222	213	214	217	223	215	209	216	219	266	321	357	361	361	358	358	358	359	360	358	360	359	356	354	353	353	360	350	298	324	360	358	355	351	347	342	347	350	352		
GLGR	GT01	108	109	108	111	108	109	107	108	75	69	69	70	70	68	69	70	70	67	69	67	67	84	86	69	68	69	67	89	95	89	85	85	68	69	68	68	69	68	68	86	86	86	86	68	67	69	69	68	
GLGR	GT02	107	106	106	107	107	107	106	107	73	68	67	67	67	67	68	67	68	67	68	69	85	86	67	68	68	68	90	94	89	85	85	68	68	68	68	68	68	69	68	86	86	86	86	68	68	68	68		
GLGR	ST1C	94	93	94	94	93	93	94	94	80	71	71	71	71	71	71	71	70	71	70	81	81	75	71	71	70	80	84	83	81	80	71	71	71	72	72	71	71	81	81	81	72	72	71	71	71	71			
NPRI	BLK1	485	505	496	502	496	314	308	310	319	313	308	320	318	316	300	308	320	499	510	502	507	506	509	509	508	508	509	506	507	511	510	505	503	497	501	503	491	440	494	505	504	503	499	491	487	487	491	497	
NPRI	BLK2	488	320	310	314	309	313	305	305	321	310	307	316	317	312	298	307	319	499	514	504	508	508	511	511	512	511	511	509	509	512	512	506	505	499	502	505	494	507	496	508	506	507	502	496	487	491	500	426	
PCGP	PGRG	575	603	592	598	588	496	401	302	181	181	182	182	181	182	182	181	181	584	602	590	597	600	601	601	600	600	603	600	600	604	603	594	594	588	589	594	577	598	588	603	602	603	597	585	579	580	584	592	
PGLA	GT11	160	165	165	167	163	167	162	164	168	163	161	168	178	165	159	164	179	162	167	165	188	202	210	198	200	174	169	193	189	211	203	209	178	176	165	165	162	162	162	214	175	214	166	164	222	185	167	167	
PGLA	GT12	187	193	192	194	191	193	189	191	195	190	189	194	205	192	187	191	207	190	195	192	217	231	239	225	229	200	196	221	219	239	232	238	205	204	190	193	188	187	190	242	203	244	195	191	225	187	168	168	
PGLA	ST10	201	208	203	203	203	201	205	201	206	213	208	216	206	206	199	199	204	204	204	203	225	226	231	231	234	208	205	214	216	232	230	229	218	222	214	202	202	200	202	235	213	204	206	201	236	226	213	213	
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	74	116	115	114	118	115	134	121	122	112	112	112	112	109	127	129	128	128	133	134	133	128	128	128	129	128	
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	148	144	145	129	120	120	120	123	119	138	125	124	117	115	117	64	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	43	44	32	52	80	143	139	142	141	140	125	112	112	111	115	112	130	117	116	108	108	110	15	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	ST18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	32	60	58	140	144	144	168	198	199	199	198	199	207	206	198	196	200	197	160	61	58	58	57	58	58	58	59	58	57	58	58	
SGB3	GT33	0	0	0	0	0	0	0	0	0	0	0	29	26	70	48	82	142	140	140	109	113	113	113	113	113	112	112	112	112	112	112	108	108	109	109	109	112	108	114	138	138	140	111	111	111	108	113		
SGB3	ST34	0	0	0	0	0	0	0	0	0	0	0	0	13	26	34	62	64	64	57	57	57	57	57	57	57	56	56	57	57	56	56	57	57	54	54	56	62	63	63	57	57	57	57	57	57	57	57		
SKSP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	21	50	102	172	347	34																															

Daily MW Generation on Monday

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	
CEND	HY02	9	9	9	9	9	9	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
CEND	HY03	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
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	8	
HTRG	HY01	63	63	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	64	64	64	63	126	125	125	62	124	
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	64	125	126	125	125	125	124	125	124	
KNRG	HY01	36	36	36	36	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KNRG	HY02	37	37	37	37	37	38	38	38	38	38	38	38	38	38	38	0	0	0	0	0	0	0	0	0	
KNRG	HY03	36	36	36	36	36	37	37	37	37	37	37	37	37	38	38	38	38	38	38	38	38	38	38	38	
KNYR	HY01	95	97	97	97	97	97	97	97	98	98	97	98	98	98	98	98	98	98	98	98	98	98	98	98	
KNYR	HY02	95	97	97	97	97	97	97	97	97	97	97	97	98	98	98	98	98	98	98	98	98	98	98	98	
KNYR	HY04	96	98	99	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	
LPIA	HY01	23	23	23	23	23	23	23	18	17	17	14	14	12	12	12	22	22	22	23	23	23	23	23	23	
LPIA	HY02	23	23	23	23	23	23	23	18	14	11	8	8	8	8	10	16	20	22	22	22	22	22	22	20	
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5	5	5	5	6	6	6	6	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	0	
PGAU	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	
PGAU	HY03	-1	-1	-1	-1	18	-1	15	-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	50	50	30	30	51	51	51	51	0	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	0	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	0	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	17	17	17	17	17	17	0	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	17	17	17	17	17	17	0	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	17	17	0	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	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	29	33	33	33	32	33	31	32	33	32	33	33	33	33	33	33	33	33	33	33	33	33	33	33	
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-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	89	92	92	90	-1	-1	89	93	82	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	93	34	-1	-1	-1	94	88	87	
UPIA	HY01	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	5	5	6	6	6	6	6	6	6	
UPIA	HY02	4	4	4	4	4	4	3	3	2	2	2	1	1	1	1	1	1	1	4	5	4	4	4	4	
Total Hydro		584	594	531	531	548	496	511	495	486	481	475	471	494	471	450	277	348	367	407	611	620	740	829	990	
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	1	1	5	8	15	19	21	24	19	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	17	15	14	22	31	16	5	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	16	25	27	23	34	23	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	16	9	6	9	9	12	15	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	11	12	17	24	36	34	41	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9	21	21	18	29	38	21	5	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	14	20	27	30	25	29	40	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	7	21	16	19	15	25	40	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	11	17	37	22	39	28	33	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	11	15	20	25	30	33	35	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	24	63	138	170	208	220	291	259	
PCUF	CUFG	3	4	4	4	3	4	3	2	4	4	3	4	3	4	3	4	3	4	3	5	4	4	3	5	4
PCUF	CUFK	2	4	4	4	3	3	2	4	4	4	3	3	2	3	3	3	2	3	3	3	4	2	2	4	4
Total Co-Gen		5	8	8	8	6	7	5	6	8	6	7	8	7	6	6	6	7	5	5	6	7	7	34	33	31

Daily MW Generation on Monday

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																									
Total Gen		13942	13627	13347	13065	12840	12554	12415	12330	12229	12097	12034	12168	12411	12646	12541	12608	13097	14354	14918	15487	15885	16113	16377	16412	16322	15990	15922	16245	16544	16873	16789	16791	16745	16698	16367	15775	15270	14935	15028	15852	16069	16144	15967	15731	15389	15224	14971	14637	
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	0	
TIE-HVDC		-29	-29	-29	29	29	31	31	31	31	29	29	30	30	30	30	29	29	31	31	30	30	30	30	30	31	31	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	29	30	30	30	30	30	30	
TIE-PLTG		2	-49	2	-9	-9	-32	36	29	-19	11	-6	-22	-28	68	42	23	-58	36	-14	37	30	6	9	-55	-11	-9	-64	-18	-33	-88	-41	-25	-34	21	-6	-4	20	-48	55	-9	-3	-22	-49	0	23	1	11	-27	
Interconnection		-27	-78	-27	20	21	-1	66	60	11	40	23	8	2	98	72	52	-29	67	17	67	60	37	39	-25	19	21	-33	12	-3	-58	-11	5	-4	51	25	26	49	-18	85	21	27	7	-20	30	53	31	41	3	
System Total		13976	13712	13381	13052	12826	12562	12356	12277	12225	12064	12018	12167	12416	12555	12476	12563	13133	14294	14908	15427	15832	16083	16345	16444	16310	15976	15962	16240	16554	16938	16807	16793	16756	16654	16349	15756	15228	14960	14950	15838	16049	16144	15994	15708	15343	15200	14937	14641	
SRev ST-Coal		295	337	408	485	493	479	499	504	485	478	570	541	417	268	360	574	576	481	321	187	176	195	184	171	199	184	195	188	206	170	178	174	198	187	188	187	191	192	186	190	174	200	171	191	210	216	193	190	
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
SRev CCGT-Gas		525	811	898	869	911	1165	1288	1379	1535	1590	1601	1773	2049	2175	2304	2087	1764	975	841	786	447	405	482	440	634	796	927	661	513	294	442	411	487	541	653	985	915	1156	1103	546	484	307	487	616	705	728	754	1060	
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
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
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
Syncon		1040	1040	1166	1166	1015	1166	1015	1166	1166	1166	1166	1166	1015	1166	1166	1267	1116	1254	1254	1128	1128	815	664	628	628	815	1002	1002	815	664	628	628	628	477	1002	1002	1128	1254	1254	664	815	664	815	815	941	941	826	1103	
Hydro		169	159	96	96	230	91	227	92	101	106	112	116	244	116	137	209	289	92	52	161	152	345	407	282	284	246	157	96	191	369	317	328	292	432	119	305	227	161	111	415	191	428	304	404	262	265	376	131	
S.Reserve Total		2029	2347	2568	2616	2649	2901	3029	3141	3287	3340	3449	3596	3725	3725	3967	4137	3745	2802	2468	2262	1903	1760	1737	1521	1745	2041	2281	1947	1725	1501	1569	1545	1609	1641	1966	2483	2465	2767	2658	1819	1668	1603	1781	2030	2122	2154	2149	2484	