

Daily System Generation Summary on Sunday

Sunday, July 19, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,176 MW
Distillate	0 MW
Total TNB	2,176 MW
Total IPP	17,165 MW
Total Co-Gen	0 MW
Total System	21,461 MW

Generation Mix

Type	MWh	Percentage
Hydro	14,413	4.60 %
Gas	21,234	6.78 %
Total TNB	35,647	11.38 %
ST-Coal	219,748	70.13 %
LSS	2,645	0.84 %
Gas	55,615	17.75 %
Total IPP	278,008	88.72 %
Co-Gen	318	0.10 %
Total Co-Gen	318	0.10 %
Total Generation	313,973	100.20 %
PLTG	344	0.11 %
HVDC	269	0.09 %
Interconnection	613	0.20 %
Net Energy	313,360	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	16,321 MW
TNB Generation	2,446 MW
IPP Generation	12,731 MW
Spinning Reserve	1,131 MW
Maximum Demand	15,179 MW
Net Energy	313,360 MWH
Load Factor	86.02 %

Fuel Cost

Total Cost:	47,517,186.77 RM
Cost per Unit	15.13 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	838
Hydro	377
Syncon	674
Thermal	378
Total	2,267

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	49
TJGS	91
Total TNB	141
CBPS	44
NPRI	136
PGLA	54
PLPS	57
SKSP	2
YPKA	21
Total IPP	315
Total Gas	455
Total Gas Required	455

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	13597	13009	12595	12269	11986	11818	11801	11535	11090	11695	12471	12857	12869	12989	13361	13483	13719	13556	13258	13517	14881	15146	14912	14699

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, August 04, 2020 2:33:07 PM

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

Daily MW Generation on Sunday

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	690	691	693	692	693	693	692	692	691	691	692	693	693	693	691	695	691	695	692	692	691	692	692	690	692	695	692	691	691	692	692	693	693	693	690	692													
JMAH	U002	692	694	694	691	695	697	694	694	697	698	695	694	692	654	636	531	427	463	505	534	698	697	691	692	694	694	695	695	695	693	691	694	695	694	696	695	695	698	695	697	695	693	693						
JMHE	U001	940	941	748	749	748	742	748	749	748	748	750	749	749	751	750	750	748	748	750	748	750	751	750	754	748	747	749	749	751	796	843	839	839	840	840	841	842	841	844	935	931	931	937	930	930	928	929	930	
JMHE	U002	940	942	780	759	748	747	749	748	748	750	750	748	748	749	750	753	749	747	750	748	750	751	750	752	749	749	748	747	752	798	840	840	838	839	839	842	841	839	845	934	931	934	933	929	930	930	929	930	
JMJG	U001	676	682	688	676	677	676	677	671	679	673	679	682	677	679	672	680	674	671	679	676	679	674	679	674	667	680	669	673	671	677	675	670	671	672	677	669	672	672	671	671	671	675	673	673	671	672	677	669	
JMJG	U002	657	674	682	667	662	683	677	667	679	666	671	679	668	685	660	662	690	669	670	682	657	679	676	660	638	669	672	679	676	677	672	673	673	677	671	684	669	672	675	677	671	672	670	669	674	672	677	669	
JMJG	U003	667	664	671	667	667	674	662	664	667	664	657	667	666	667	667	665	677	664	667	665	667	663	666	667	667	669	668	666	665	666	666	662	664	662	666	666	668	668	664	670	666	667	666	666	666	666	662		
JMJG	U004	0	0	0	0	0	0	0	0	317	431	450	453	547	596	615	612	632	719	760	761	759	758	763	760	762	761	759	765	753	756	847	845	846	843	847	845	845	847	846	872	935	936	937	935	938	938	939	939	
PKLG	U003	282	281	282	282	279	284	283	283	282	285	277	281	282	281	284	284	284	283	285	283	285	283	282	283	283	282	284	283	285	280	277	278	279	282	279	284	281	282	279	279	281	280	279	281	282	282	283		
PKLG	U004	278	278	274	278	277	278	273	280	277	279	280	278	279	281	284	281	283	281	280	283	281	282	283	281	280	281	282	278	280	282	278	279	279	278	280	281	280	280	276	278	277	281	281	281	281	281	281		
PKLG	U005	468	468	465	468	467	466	467	468	467	466	466	466	466	468	464	466	467	466	468	467	466	467	467	468	468	468	468	468	468	468	468	465	466	467	468	468	468	466	465	467	464	474	466	467	468	459	466		
PKLG	U006	450	449	448	448	445	448	450	446	448	449	448	447	448	447	448	449	448	445	445	446	446	451	447	449	443	445	445	449	449	449	446	449	442	451	450	449	446	446	449	449	448	446	446	448	445	448	451	448	
TBIN	U001	687	687	687	688	688	687	689	687	688	689	688	689	689	688	689	691	689	687	687	686	686	689	688	687	687	686	687	686	688	688	685	689	688	687	688	689	686	689	688	691	687	689	674	689	686	687	689	690	
TBIN	U002	689	695	695	689	710	695	695	696	691	692	695	696	692	694	693	695	690	696	693	692	691	692	691	692	694	691	692	694	693	693	691	694	694	692	691	693	693	693	690	693	693	691	692	692	689	690	692	682	
TBIN	U003	693	689	691	690	691	689	687	692	692	691	687	690	690	690	689	694	687	689	693	690	691	692	692	691	689	691	687	691	692	689	691	690	691	692	689	690	693	694	687	687	689	691	692	692	689	690	690	682	
Total ST-Coal		8809	8835	8498	8444	8447	8459	8441	8437	8771	8873	8885	8912	8986	8982	8927	8745	8570	8696	8893	8944	9202	9221	9219	9202	9161	9205	9200	9212	9209	9303	9460	9462	9456	9467	9474	9478	9474	9480	9480	9684	9734	9740	9742	9734	9740	9742	9738	9731	
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			
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			
CBPS	BLK2	355	362	361	360	357	254	223	226	219	223	223	218	221	217	221	220	210	218	223	226	224	220	228	219	223	224	224	223	229	225	223	250	310	352	331	243	221	243	295	358	361	362	362	361	360	359	354	363	
GLGR	GT01	101	102	100	102	101	98	69	70	67	68	70	68	68	69	69	68	68	68	68	69	68	69	68	69	68	69	68	69	68	69	67	69	69	67	69	68	68	68	66	103	102	102	102	101	95	93	85		
GLGR	GT02	102	102	101	101	101	98	68	69	68	68	68	68	68	69	68	69	68	69	68	69	68	69	68	68	68	68	68	68	68	68	68	67	67	68	68	68	68	68	68	102	101	101	101	102	96	93	84		
GLGR	ST1C	89	89	89	90	89	88	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	72	71	71	72	71	71	71	71	71	71	88	90	89	89	89	85	83				
NPRI	BLK1	510	520	518	521	511	506	520	518	314	320	319	313	319	316	317	311	311	320	326	331	331	326	333	328	331	332	332	330	337	398	510	512	509	506	511	509	495	446	503	510	518	514	510	510	502	499	510		
NPRI	BLK2	407	484	471	505	403	419	419	466	368	409	331	448	382	431	326	322	310	408	332	484	520	322	412	333	340	468	359	397	473	515	333	491	456	490	435	512	502	391	421	464	474	526	523	499	479	431	409	422	
PCGP	PGRG	590	602	602	602	594	587	602	603	446	302	244	303	303	302	180	179	181	303	201	201	309	401	409	500	502	507	607	601	612	607	602	604	602	602	593	603	602	582	603	597	602	615	605	604	603	595	589	601	
PGLA	GT11	164	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
PGLA	GT12	191	195	223	224	222	182	187	187	184	187	186	184	186	185	185	183	178	181	185	186	186	185	187	185	186	187	188	186	189	187	186	186	187	187	185	186	188	180	248	244	247	247	253	254	256	230	230	230	
PGLA	ST10	202	90	101	101	101	90	91	91	90	90	92	90	90	87	87	91	88	91	90	90	91	90	90	91	91	90	91	91	91	91	91	91	90	90	90	90	90	90	109	112	112	113	113	113	112	112			
PLPS	GT12	116	120	123	129	118	69	67	67	66	66	65	63	63	67	63	61	63	63	67	63	67	66	67	63	67	66	68	70	66	67	68	70	66	67	65	67	65	67	66	61	141	142	142	145	140	141	141	137	121
PLPS	GT13	106	109	112	117	107	86	63	63	62	63	64	61	59	59	63	61	57	59	63	63	63	63	61	64	64	63	64	62	63	68	64	62	63	64	63	60	63	63	57	131	130	130	133	129	130	130	125	125	110
PLPS	ST18	133	133	136	137	131	111	92	91	90	89	90	92	91	87	90	85	85	88	90	91	91	91	94	90	92	95	93	94	93	97	93	95	93	91	92	93	93	87	143	142	143	145	144	143	143	143	135		
SKSP	BLK1	217	148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	BLK1	189	189	188	186	189	283	188	192	180	189	189	10	10	10	10																																		

Daily MW Generation on Sunday

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		
KNRG	HY03	22	22	22	23	22	22	23	23	22	22	23	22	22	22	21	38	38	38	38	38	37	37	37	37	37	
KNYR	HY01	62	76	67	80	61	60	78	94	76	69	71	64	63	62	63	0	0	0	0	0	0	0	0	0	0	
KNYR	HY02	97	-1	98	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	
KNYR	HY04	98	98	99	62	57	55	100	59	59	60	59	59	59	57	58	53	53	60	58	61	91	59	74	63	84	
LPIA	HY01	21	21	21	21	21	21	21	21	20	20	20	20	20	20	20	20	18	18	18	18	19	19	19	19	19	
LPIA	HY02	20	20	20	20	20	20	20	20	19	19	19	19	19	19	18	18	18	18	18	18	18	19	20	20	20	
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	7	7	7	7	7	7	6	
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	
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	-1	
PGAU	HY03	55	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-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	0	
SIHY	HY01	50	50	50	50	50	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SIHY	HY02	50	50	50	50	50	50	50	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	0	
SYPS	HY01	0	25	25	25	25	25	25	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY02	25	25	25	25	25	25	25	17	17	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	0	
SYPS	HY04	25	25	25	25	25	25	25	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TMGR	HY01	33	34	32	32	32	31	32	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
TMGR	HY02	32	33	33	33	33	32	33	33	33	33	33	33	33	33	33	30	32	33	33	33	33	33	33	33	33	
TMGR	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	
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	-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	-1	
UPIA	HY01	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	6	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	5	
Total Hydro		692	526	615	493	467	462	529	411	389	267	269	261	260	256	277	190	184	231	233	214	244	461	488	544	564	
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	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	
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	40	3	3	2	4	3	4	3	2	6	4	4	4	3	3	4	3	3	3	3	3	3	3	3	3	3
PCUF	CUFK	36	4	2	3	2	1	3	4	1	4	5	3	4	4	3	4	4	3	3	4	4	4	4	4	4	4
Total Co-Gen		76	7	5	5	6	4	7	7	3	10	9	7	8	7	6	6	7	6	6	7	6	6	5	11	9	
Total Gen		13647	13304	13018	12895	12568	12392	12234	12168	11986	11893	11772	11771	11783	11812	11566	11277	11096	11555	11731	11977	12432	12609	12813	12891	12860	
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	
TIE-HVDC		29	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-PLTG		31	39	20	31	-16	43	-24	-20	11	-15	-35	13	-7	-9	42	-10	17	85	47	-17	-28	14	-33	6	2	
Interconnection		61	39	20	31	-16	43	-24	-20	11	-15	-35	13	-7	-9	42	-10	17	85	47	-17	-28	14	-33	6	2	
System Total		13597	13276	13009	12875	12595	12360	12269	12199	11986	11919	11818	11769	11801	11832	11535	11298	11090	11481	11695	12005	12471	12606	12857	12896	12869	

Daily MW Generation on Sunday

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	
SRev ST-Coal		236	210	275	309	294	276	301	305	370	470	460	430	356	463	519	508	467	564	510	508	396	376	389	410	445	396	409	397	394	395	415	408	413	402	402	395	400	394	401	331	321	315	313	321	315	313	317	324
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
SRev CCGT-Gas		882	1016	470	415	723	998	1113	1061	1539	1628	1762	1601	1663	1625	1836	1864	1896	1645	1674	1509	1365	1489	1358	1370	1350	1209	1224	1195	1092	995	1191	898	863	791	890	876	911	876	611	376	168	101	107	136	158	277	320	333
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
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		676	928	827	928	928	928	928	1015	1141	1267	1267	1267	1267	1267	1116	1267	1267	1116	1116	1267	1267	889	889	889	889	1015	1015	889	551	551	702	918	792	792	641	1015	1166	1166	1267	702	302	302	302	389	389	274	274	461
Hydro		351	163	175	196	222	227	160	216	237	158	156	164	165	169	299	135	141	245	243	111	81	342	315	259	239	220	216	215	431	490	297	259	355	294	458	185	129	243	284	500	589	414	569	553	619	709	765	784
S.Reserve Total		2145	2317	1747	1848	2167	2429	2502	2597	3287	3523	3645	3462	3451	3524	3770	3774	3771	3570	3543	3395	3109	3096	2951	2928	2923	2840	2864	2696	2468	2431	2605	2483	2423	2279	2391	2471	2606	2679	2563	1909	1380	1132	1291	1399	1481	1573	1676	1902