

Daily System Generation Summary on Thursday

Thursday, July 09, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,172 MW
Distillate	0 MW
Total TNB	2,172 MW
Total IPP	16,686 MW
Total Co-Gen	0 MW
Total System	21,681 MW

Generation Mix

Type	MWh	Percentage
Hydro	14,621	4.17 %
Gas	34,460	9.82 %
Total TNB	49,081	13.99 %
ST-Coal	220,874	62.94 %
LSS	2,219	0.63 %
Gas	76,878	21.91 %
Total IPP	299,971	85.47 %
Co-Gen	444	0.13 %
Total Co-Gen	444	0.13 %
Total Generation	349,496	99.59 %
PLTG	-755	-0.22 %
HVDC	-700	-0.20 %
Interconnection	-1,455	-0.41 %
Net Energy	350,951	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:	15:00:00 Hour
Total Set On Bus	17,686 MW
TNB Generation	2,480 MW
IPP Generation	13,661 MW
Spinning Reserve	1,516 MW
Maximum Demand	16,266 MW
Net Energy	350,951 MWH
Load Factor	89.90 %

Fuel Cost

Total Cost:	51,267,906.40 RM
Cost per Unit	14.67 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	517
Hydro	313
Syncon	692
Thermal	145
Total	1,667

Time Weather Temperature

Afternoon	Rainy	32
Morning	Rainy	27

Gas Usage

Station	(mmscfd)
GLGR	48
TJGS	200
Total TNB	248
CBPS	48
KLPP	18
NPRI	144
PGLA	103
PLPS	28
SGB3	86
SKSP	50
Total IPP	477
Total Gas	725
Total Gas Required	725

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	14233	13562	13123	12802	12545	12358	12515	12679	13252	14954	15573	16042	15934	15625	16106	16266	16179	15865	14921	14813	15888	15675	15167	14932

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, August 04, 2020 1:36:20 PM

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

Daily MW Generation on Thursday

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	694	693	693	693	599	497	502	446	400	401	400	401	409	502	503	503	613	701	690	693	693	691	692	694	692	692	691	691	692	690	693	689	694	692	694	690	692	693	693	690	695	692	692	692	698	692	690	692	693
JMAH	U002	696	694	695	695	605	501	503	402	403	403	403	403	407	505	504	504	639	684	696	695	695	695	691	695	694	696	692	694	693	696	694	695	693	695	695	695	694	693	695	695	693	695	695	695	692	695	696	694	695
JMHE	U001	781	780	780	780	776	780	777	780	781	778	781	780	779	781	781	781	781	856	966	978	979	981	979	979	977	982	983	981	980	978	978	980	981	982	983	984	979	981	981	984	983	978	979	978	981	982	982	981	
JMHE	U002	778	781	779	779	777	779	776	779	777	780	782	782	780	780	779	778	781	856	980	978	981	983	979	979	977	981	980	981	979	978	976	981	980	979	981	982	982	980	981	980	983	980	977	977	981	982	980	981	
JMJG	U001	671	672	673	671	670	671	672	672	673	673	672	672	671	672	673	671	673	672	668	672	673	682	673	677	671	671	673	672	671	672	672	672	673	672	673	670	674	667	672	673	672	674	672	674	674	672			
JMJG	U002	673	671	672	672	672	671	671	673	672	671	671	671	672	672	673	671	672	673	672	671	673	672	677	671	671	673	672	671	671	673	667	672	674	671	673	672	671	673	670	670	672	673	668	671	673	672	671		
JMJG	U003	668	669	667	669	670	670	667	667	669	668	668	668	677	671	666	668	669	672	670	669	668	670	662	668	668	669	668	667	667	668	668	668	669	671	669	668	667	667	668	672	668	668	667	670	669	671	671	667	
PKLG	U003	281	281	281	282	281	278	278	279	278	279	282	280	280	281	280	281	280	284	284	282	283	282	282	283	283	280	281	283	281	282	283	282	284	282	282	282	281	283	284	279	283	280	281	283	282	283	281	283	
PKLG	U004	145	145	144	144	144	143	144	142	146	146	146	143	147	145	146	143	145	146	145	146	145	144	145	145	144	145	146	144	145	146	146	144	145	144	142	144	144	145	143	145	144	146	146	145	145	145	145		
PKLG	U005	466	468	468	466	469	470	433	357	349	302	261	269	279	361	409	468	466	466	466	466	468	468	468	468	466	466	466	466																					

Daily MW Generation on Thursday

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	
BSIA	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	
BSIA	HY02	24	24	11	11	11	11	11	11	11	11	11	11	11	24	24	24	24	23	23	23	23	23	12	12	12
CEND	HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	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	
CEND	HY03	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
HTRG	HY01	125	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	125
KNRG	HY01	37	37	37	37	37	37	37	37	37	37	37	37	37	0	0	0	0	0	0	0	0	0	0	0	
KNRG	HY03	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	25	25	25	
KNYR	HY01	59	99	99	99	99	99	99	99	100	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	
KNYR	HY02	99	98	98	98	98	98	-1	-1	-1	-1	-1	-1	-1	97	97	97	97	97	97	97	97	97	97	97	
KNYR	HY04	99	98	98	99	99	99	99	99	99	99	99	99	99	98	98	98	98	98	98	98	99	99	99	99	
LPIA	HY01	17	17	15	15	16	17	17	17	17	17	17	17	17	16	14	14	14	16	15	15	15	15	16	16	
LPIA	HY02	17	17	15	15	15	15	15	15	15	15	15	15	15	14	14	14	15	15	15	15	15	14	15	15	
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	6	6	6	6	6	
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	
PGAU	HY02	-1	-1	19	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	21	-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	
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	-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	45	46	44	45	33	34	34	34	34	34	33	34	34	33	34	44	44	48	47	47	47	47	46	47	
TMGR	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	
TMGR	HY04	-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	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	
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	
UPIA	HY01	6	6	5	6	5	6	6	6	6	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	3	3	3	3	5	4	3	3	4	2	3	3	
Total Hydro		585	498	498	501	469	472	473	374	374	375	395	372	375	375	339	360	337	467	487	466	531	730	718	714	
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	
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	
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	
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	
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	
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	4	4	3	3	3	3	3	3	4	4	4	4	4	2	3	4	4	4	4	2	3	3	27	28	
PCUF	CUFK	3	3	4	2	3	2	4	2	4	4	1	1	4	4	2	3	4	3	2	3	3	3	4	2	

Daily MW Generation on Thursday

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 Co-Gen		7	7	7	5	6	5	7	5	7	8	8	5	3	8	9	3	7	7	7	4	6	8	7	7	7	8	7	5	6	7	29	57	58	59	58	57	57	57	58	57	56	54	3	7	6	6	8	9		
Total Gen		14177	13871	13550	13362	13075	12921	12760	12553	12466	12315	12288	12298	12496	12562	12642	12700	13116	14293	14878	15266	15481	15738	15964	16011	15868	15655	15561	15751	16009	16108	16170	16018	16087	16039	15768	15332	14837	14704	14781	15492	15816	15758	15586	15331	15105	14892	14849	14452		
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	0	
TIE-HVDC		-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	
TIE-PLTG		-20	-66	25	-27	-12	-15	-6	-21	-44	-20	-35	-7	17	-32	-1	5	-99	12	-41	-38	-56	-5	-41	1	-30	-30	-28	-42	-61	-69	-59	-44	-56	-36	-60	-15	-48	-15	4	-41	-36	-43	-53	-56	-25	-59	-47	-33		
Interconnection		-49	-96	-5	-56	-41	-44	-35	-50	-72	-48	-63	-36	-12	-61	-30	-25	-129	-17	-69	-67	-85	-35	-71	-28	-59	-59	-57	-71	-90	-100	-89	-73	-85	-66	-90	-44	-77	-44	-25	-69	-65	-72	-82	-85	-55	-87	-76	-63		
System Total		14233	13974	13562	13425	13123	12972	12802	12610	12545	12370	12358	12341	12515	12630	12679	12732	13252	14317	14954	15340	15573	15780	16042	16046	15934	15721	15625	15829	16106	16215	16266	16098	16179	16112	15865	15383	14921	14755	14813	15568	15888	15837	15675	15423	15167	14986	14932	14522		
SRev ST-Coal		275	237	195	148	518	524	549	569	555	559	563	558	572	457	564	514	501	381	241	142	133	135	141	139	142	128	140	136	148	141	144	147	125	134	130	134	133	140	-7	188	135	151	158	127	144	156	132	146		
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	0
SRev CCGT-Gas		1244	1410	1769	2004	1853	1802	1942	1813	1862	1963	1971	1949	1756	1735	1562	1583	1424	847	642	446	490	489	505	466	749	815	832	675	393	468	371	530	475	410	585	642	810	884	913	484	410	450	473	661	812	970	1053	1435		
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	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	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	0
Syncon		1001	1127	976	976	1127	1127	1001	1102	1102	1102	951	1102	1102	1102	951	1102	1001	850	1001	827	640	640	640	827	827	827	827	763	676	489	640	640	640	640	640	489	827	914	914	727	489	489	615	853	914	914	763	763		
Hydro		99	60	211	208	89	86	86	84	84	83	214	86	83	83	79	209	81	62	193	63	172	271	283	287	222	300	260	241	278	395	362	369	360	360	418	539	257	192	204	254	443	443	533	333	179	136	223	225		
S.Reserve Total		2619	2834	3151	3336	3587	3539	3578	3568	3603	3707	3699	3695	3513	3377	3307	3257	3108	2291	1926	1652	1622	1535	1569	1532	1940	2070	2059	1815	1495	1493	1517	1686	1600	1544	1773	1804	2027	2130	2024	1653	1477	1533	1779	1974	2049	2176	2171	2569		