

Daily System Generation Summary on Thursday

Thursday, June 04, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,384 MW
Distillate	0 MW
Total TNB	2,384 MW
Total IPP	16,792 MW
Total Co-Gen	0 MW
Total System	21,999 MW

Generation Mix

Type	MWh	Percentage
Hydro	13,239	3.78 %
Gas	35,640	10.16 %
Total TNB	48,879	13.94 %
ST-Coal	217,024	61.89 %
LSS	1,799	0.51 %
Gas	83,251	23.74 %
Total IPP	302,074	86.15 %
Co-Gen	753	0.21 %
Total Co-Gen	753	0.21 %
Total Generation	351,706	100.30 %
PLTG	344	0.10 %
HVDC	721	0.21 %
Interconnection	1,065	0.30 %
Net Energy	350,641	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:	11:30:00 Hour
Total Set On Bus	18,261 MW
TNB Generation	2,353 MW
IPP Generation	13,747 MW
Spinning Reserve	2,099 MW
Maximum Demand	16,145 MW
Net Energy	350,641 MWH
Load Factor	90.49 %

Fuel Cost

Total Cost:	55,834,527.85 RM
Cost per Unit	15.88 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	547
Hydro	379
Syncon	988
Thermal	174
Total	2,088

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	49
TJGS	204
Total TNB	253
CBPS	51
KLPP	95
NPRI	151
PGLA	56
PLPS	50
SGB3	25
SKSP	47
YPKA	44
Total IPP	519
Total Gas	772
Total Gas Required	772

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	14795	14194	13715	13226	12909	12810	12691	12649	13139	14951	15724	16060	15918	15568	15848	15853	15840	15458	14508	14458	15418	15288	14785	14650

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, July 07, 2020 12:56:01 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	692	693	692	690	693	691	692	692	694	691	689	694	691	695	693	693	692	693	691	692	694	692	689	692	693	693	
JMAH	U002	696	693	696	694	694	692	695	698	693	696	695	695	692	697	695	695	696	697	694	689	695	695	693	694	694	696	695	
JMHE	U001	980	980	796	799	798	802	802	802	794	800	801	800	800	802	798	799	800	799	795	801	947	981	983	981	979	979	981	983
JMHE	U002	975	976	976	862	800	798	801	800	797	802	801	801	801	800	800	799	800	800	802	964	981	978	980	974	975	979	980	
JMJG	U002	671	675	671	675	673	672	672	677	676	671	676	672	668	678	672	672	670	673	673	672	677	677	673	672	673	672	671	
JMJG	U003	666	478	450	446	446	447	444	491	506	506	508	510	511	513	593	675	668	670	673	664	660	667	669	671	664	673	655	
JMJG	U004	901	904	901	902	822	803	805	804	804	804	803	805	804	806	801	803	804	806	807	894	903	901	902	902	901	905	905	
PKLG	U003	281	282	281	281	281	280	280	281	279	282	282	282	282	283	283	282	281	280	282	282	281	282	287	283	283	283	284	
PKLG	U004	280	281	279	282	279	278	277	277	282	281	283	280	280	279	279	280	279	279	280	282	281	281	280	280	281	276	278	
PKLG	U005	467	468	466	462	468	466	466	466	468	468	468	454	366	294	273	267	347	428	466	466	466	466	466	466	467	468	469	
PKLG	U006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	
TBIN	U001	690	689	689	693	690	689	690	688	686	688	687	692	689	690	690	691	683	689	691	689	691	690	690	691	689	688	690	
TBIN	U002	692	695	694	694	696	690	693	695	694	693	692	686	695	690	690	691	693	694	688	693	687	691	696	691	693	682	689	
TBIN	U003	687	689	693	691	689	688	689	689	688	689	694	690	689	689	682	691	687	691	690	693	687	690	692	690	690	689	691	
TBIN	U004	983	982	902	814	804	802	802	802	802	804	802	802	803	802	803	804	805	802	827	918	983	983	981	982	980	983	981	
Total ST-Coal		9663	9484	9187	8987	8830	8800	8807	8862	8861	8878	8884	8862	8773	8715	8748	8840	8906	9003	9027	9152	9540	9683	9692	9666	9663	9660	9652	
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	
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	
CBPS	BLK2	363	363	363	362	361	356	254	223	224	222	224	225	227	227	218	224	365	364	358	358	361	361	361	354	354	345	352	
GLGR	GT01	69	67	68	67	69	67	67	67	67	67	68	68	67	68	68	65	67	67	69	68	69	68	68	67	69	70	103	
GLGR	GT02	68	68	68	66	67	68	68	67	67	68	68	68	68	68	68	68	68	68	68	68	74	102	101	102	101	101	102	
GLGR	ST1C	71	71	71	72	72	71	72	71	71	71	71	71	71	71	71	71	71	71	71	72	71	71	71	71	71	71	71	
KLPP	GT13	136	134	136	135	135	70	71	70	70	71	71	71	71	74	71	67	71	109	113	108	108	130	123	118	119	117	119	
KLPP	GT14	148	81	0	0	0	0	0	0	0	0	0	0	0	0	41	118	153	153	155	140	132	131	131	128	128	132	137	
KLPP	GT15	150	154	153	154	154	104	87	84	84	80	84	83	82	88	82	83	87	121	124	120	120	144	132	136	134	129	134	
KLPP	ST17	195	186	135	128	131	101	87	86	87	86	86	85	85	86	86	86	87	121	180	189	190	190	196	191	191	192	187	
NPRI	BLK1	508	510	510	505	511	505	511	520	484	467	484	401	375	401	367	340	528	520	523	518	517	520	517	518	509	506	500	
NPRI	BLK2	512	513	513	509	512	509	513	512	506	364	318	318	317	321	318	317	320	524	524	521	520	522	522	522	511	509	499	
PCGP	PGRG	374	376	378	378	379	374	378	378	377	377	378	381	381	382	382	381	382	502	507	501	498	601	598	403	395	436	575	
PGLA	GT12	180	181	181	179	180	178	180	178	180	180	180	181	180	182	180	178	181	254	253	244	246	228	226	228	225	213	209	
PGLA	ST10	89	89	89	89	89	89	89	88	88	88	88	89	89	89	89	89	114	113	114	109	106	104	104	104	100	97	87	
PLPS	GT11	128	129	129	128	129	128	128	128	128	128	128	128	129	128	128	129	128	125	127	131	130	130	130	122	121	112	109	
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	143	142	140	141	126	119	108	106	107	
PLPS	ST18	57	58	58	57	58	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	
SGB3	GT33	113	113	113	113	113	112	112	112	112	112	112	112	112	112	112	113	113	117	113	112	110	110	111	108	108	105	108	
SGB3	ST34	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	66	66	64	64	64	64	65	62	62	62	64	
SKSP	BLK1	308	219	328	339	234	239	290	260	220	218	223	232	222	226	220	217	231	234	261	217	219	231	244	224	218	217	218	
TJGS	GT1A	225	204	211	229	229	199	196	185	152	146	149	153	136	151	124	129	151	198	227	214	196	193	216	223	208	199	181	
TJGS	GT1B	216	202	204	220	216	192	192	179	145	144	141	147	134	145	117	124	146	193	219	208	192	186	212	219	205	195	176	
TJGS	ST1C	233	232	243	243	236	238	223	199	185	169	181	176	177	181	173	167	178	222	250	241	221	229	241	244	234	227	205	
TJGS	GT2A	214	214	214	214	215	213	146	145	148	148	148	148	148	148	148	147	147	219	214	214	214	214	215	215	215	215	184	
TJGS	GT2B	210	210	210	210	213	210	139	145	144	144	144	144	144	144	144	144	144	216	211	211	211	211	211	211	211	211	211	
TJGS	ST2C	259	259	259	259	259	259	213	211	211	211	211	211	211	211	211	211	211	249	258	258	258	258	255	255	255	255	236	
YPKA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	126	99	99	100	110	126	123	97	95	98	
YPKA	GT12	67	68	67	68	68	68	68	68	68	67	68	68	67	69	68	68	68	68	69	100	101	101	107	128	125	98	96	
YPKA	ST10	34	33	33	33	34	33	33	33	33	33	33	33	33	33	33	33	33	31	89	99	100	100	101	101	107	120	119	
Total CCGT-Gas		4992	4799	4799	4822	4729	4505	4240	4133	3971	3783	3778	3714	3646	3727	3610	3568	3848	4869	5373	5487	5426	5528	5643	5453	5340	5236	5254	

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 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
BSIA	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22
BSIA	HY02	11	11	12	12	11	12	12	11	11	12	12	11	11	11	11	11	12	12	11	11	12	11	11	11
CEND	HY01	8	7	8	8	8	8	8	8	8	7	8	7	7	8	8	0	0	0	0	0	8	8	8	7
CEND	HY02	7	7	7	7	7	7	7	7	7	7	7	7	7	7	10	10	10	10	10	10	10	10	9	10
CEND	HY03	8	7	8	8	8	7	8	8	8	7	8	8	8	8	10	10	10	10	10	10	10	10	10	7
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	65	-1	-1	-1	-1	-1	-1	-1	-1
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36
KNRG	HY02	25	25	25	25	25	26	25	25	25	25	25	26	25	25	24	25	25	25	24	24	25	25	25	25
KNRG	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	21	21	21	20	21	22	21	21	21
KNYR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99	97	97	54	54	54	100	93	96	98
KNYR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	71	93	96	98	98	98	57	-1	-1
KNYR	HY03	76	66	75	74	85	65	74	72	64	64	65	66	65	66	66	79	85	96	66	65	89	68	62	59
KNYR	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	101	100	100	100	64	66	63	63	67	80	94
LPIA	HY01	21	9	15	15	15	15	15	15	15	15	15	15	15	15	16	17	18	18	18	19	19	20	20	20
LPIA	HY02	21	19	15	15	15	15	15	15	15	15	15	15	15	15	16	17	17	17	17	18	19	19	20	20
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	6	6	6	6	6	7	7	7	7	7	7	7	4	4
PGAU	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY02	-1	-1	-1	20	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	5	21	21	21	21	-1
PGAU	HY03	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
SIHY	HY01	0	0	0	0	0	0	0	0	0	31	31	31	31	31	31	49	49	31	31	31	31	31	0	0
SIHY	HY02	0	0	0	0	0	0	0	0	0	31	31	31	31	31	31	50	50	30	30	30	29	30	30	30
SIHY	HY03	0	0	0	0	0	0	0	0	0	31	31	31	31	31	31	50	50	49	30	30	30	29	30	30
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	25	25	25	17	17	17	17	17	17	17	17	17	17	17
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	25	25	25	16	16	16	16	16	16	16	16	16	16	16
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	25	25	25	16	17	17	17	17	17	17	17	17	17	17
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	25	25	25	16	16	16	16	16	16	16	16	16	16	16
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	-1	-1	-1	-1	0	0	36	0	0	0	0	0	0	0	0	2	-1	-1	-1	-1	0	0	0	0
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	32	32	32	32	32	30	29	27	31
TMGR	HY04	33	33	33	32	33	33	33	-1	33	32	33	33	33	33	33	33	33	32	34	32	33	33	33	31
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	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5
UPIA	HY02	6	6	5	5	5	5	5	5	5	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3
Total Hydro		216	211	203	222	213	192	204	203	192	212	193	192	379	390	388	374	386	406	518	550	582	582	590	778
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	1	1	1	2	2	1	2	3	3	4	10
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	8	8	7	9	19	26	12	11	8
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	12	16	17	18	24	13	42	24	24
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	16	7	7	7	5	5	5	4
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	12	13	25	28	22	44	29	17	20
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	10	14	27	34	19	13	21	34	5
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	5	11	3	0	2	6	24	31	33
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	6	9	9	11	13	12	19	26	38
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	7	38	25	7	7	27	34	41

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																								
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	16	17	19	18	26	23	14	25	4	1	7	12	19	15	26	17	14	12	7	4	2	0	0	0	0	0	0	0	0				
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	9	32	57	90	146	162	137	129	203	204	197	199	209	247	266	257	273	234	178	157	110	68	31	9	0	0	0	0	0	0	0	0	0			
PCUF	CUFG	5	4	6	3	5	5	6	5	5	5	5	2	5	4	4	2	4	3	3	15	32	32	32	37	31	32	32	35	31	31	32	33	32	3	4	3	4	4	30	32	31	32	30	31	31			
PCUF	CUFK	3	2	4	1	3	4	5	2	2	3	4	2	3	3	2	2	3	30	30	29	30	29	3	3	25	29	31	29	28	29	29	29	3	3	3	3	4	31	26	29	28	29	28	29				
Total Co-Gen		8	6	10	4	8	9	11	7	7	8	9	7	5	8	8	7	5	6	5	6	45	62	61	62	61	40	34	57	61	66	60	59	61	62	61	6	7	6	7	8	61	58	60	60	59	58	60	60
Total Gen		14879	14500	14199	14035	13780	13506	13262	13205	13031	12881	12864	12775	12803	12840	12754	12798	13177	14341	15013	15341	15755	15992	16115	16162	15974	15815	15645	15720	15862	15644	15895	15919	15883	15800	15559	14976	14522	14372	14444	15131	15423	15360	15294	15092	14856	14780	14640	14457
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			
TIE-HVDC		31	30	30	31	31	31	31	30	30	31	31	29	29	30	30	30	30	30	30	30	30	30	30	30	31	29	29	31	31	30	29	30	30	30	30	30	31	31	29	29	30	30	29	29	30	30		
TIE-PLTG		57	42	-21	93	38	39	9	57	96	12	28	35	85	58	79	81	12	1	36	-11	4	-15	28	-9	29	68	51	28	-12	-261	14	37	18	15	74	17	-13	-35	-41	-38	-20	-82	-20	15	46	15	-37	-12
Interconnection		88	72	9	124	69	70	40	87	126	43	58	64	115	88	108	111	42	31	66	19	34	15	58	21	60	98	81	58	17	-232	45	68	47	45	104	47	17	-4	-10	-8	9	-52	10	45	75	45	-7	18
System Total		14795	14432	14194	13915	13715	13440	13226	13122	12909	12842	12810	12714	12691	12755	12649	12691	13139	14314	14951	15325	15724	15980	16060	16145	15918	15721	15568	15665	15848	15879	15853	15854	15840	15759	15458	14932	14508	14379	14458	15143	15418	15416	15288	15051	14785	14738	14650	14442
SRev ST-Coal		152	191	285	362	444	472	465	462	452	449	440	461	496	482	422	324	534	512	482	393	275	132	123	149	152	155	163	147	146	57	139	121	109	124	126	153	118	114	126	119	133	131	106	209	206	124	110	107
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		787	980	827	732	825	1049	1314	1421	1583	1771	1776	1840	1908	1827	1944	1986	1706	910	679	703	764	662	547	537	650	754	936	919	837	639	499	365	375	367	545	721	805	703	747	390	268	480	536	477	463	415	564	570
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	
SRev Co-Gen		62	64	60	66	62	61	59	63	63	62	61	63	65	62	62	63	65	64	65	64	25	8	9	8	9	30	36	13	9	4	10	11	9	8	9	64	63	64	63	62	9	12	10	10	11	12	10	10
Syncon		1204	1053	1204	1053	1204	1116	1116	1203	1116	965	1116	1116	965	1116	1116	965	1116	1142	1041	1041	1041	1172	1021	1172	1021	1166	1267	1267	1267	1015	790	1103	1103	1103	1103	1254	1355	1355	1254	916	880	729	880	578	729	880	880	1254
Hydro		133	289	146	278	136	158	146	147	158	289	157	159	323	211	213	377	214	280	269	327	335	334	477	237	460	334	409	401	384	388	492	322	312	343	333	289	209	209	310	452	357	512	486	405	409	367	374	190
S.Reserve Total		2338	2577	2522	2491	2671	2856	3100	3296	3372	3536	3550	3639	3757	3698	3757	3715	3635	2908	2536	2528	2440	2308	2177	2103	2292	2439	2811	2747	2643	2103	1930	1922	1908	1945	2116	2481	2550	2445	2500	1939	1647	1864	2043	1679	1818	1798	1938	2131