

Daily System Generation Summary on Thursday

Thursday, June 11, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,435 MW
Distillate	0 MW
Total TNB	2,435 MW
Total IPP	17,590 MW
Total Co-Gen	0 MW
Total System	22,848 MW

Generation Mix

Type	MWh	Percentage
Hydro	14,079	3.83 %
Gas	30,494	8.29 %
Total TNB	44,573	12.12 %
ST-Coal	235,358	63.98 %
LSS	2,117	0.58 %
Gas	84,782	23.05 %
Total IPP	322,257	87.61 %
Co-Gen	567	0.15 %
Total Co-Gen	567	0.15 %
Total Generation	367,397	99.88 %
PLTG	251	0.07 %
HVDC	-696	-0.19 %
Interconnection	-445	-0.12 %
Net Energy	367,842	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	18,755 MW
TNB Generation	2,730 MW
IPP Generation	14,645 MW
Spinning Reserve	1,326 MW
Maximum Demand	17,483 MW
Net Energy	367,842 MWH
Load Factor	87.67 %

Fuel Cost

Total Cost:	57,792,104.01 RM
Cost per Unit	15.73 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	439
Hydro	368
Syncon	752
Thermal	151
Total	1,710

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	26

Gas Usage

Station	(mmcsfd)
GLGR	28
TJGS	188
Total TNB	216
CBPS	49
KLPP	84
NPRI	144
PGLA	108
PLPS	55
SKSP	48
YPKA	29
Total IPP	516
Total Gas	732
Total Gas Required	732

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	15152	14539	14085	13504	13144	12931	12935	12893	13518	15236	16080	16731	16734	16511	17122	17377	17308	16872	15516	15352	16280	16127	15789	15683

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, July 07, 2020 1:24:57 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	693	692	692	692	693	692	688	693	689	692	692	692	692	693	693	692	692	691	690	693	693	692	691	689	693	693	692	691	691	693																				
JMAH	U002	698	693	694	694	693	693	693	695	692	696	694	691	694	697	695	700	696	695	694	702	692	695	695	694	693	693	695	695	696	693	696	694	694	696	691	697														
JMHE	U001	982	980	897	878	787	799	800	803	798	799	801	800	802	799	799	802	797	868	984	980	981	980	981	981	981	978	980	976	981	982	980	978	981	981	979	982	981	978	975	982	981	982	980	983						
JMHE	U002	984	980	897	881	810	800	797	803	800	802	801	799	800	799	800	803	800	861	985	983	980	980	981	980	981	982	980	980	976	979	980	978	979	981	979	980	982	982	981	980	977	977	982	978	980	980	980			
JMJG	U002	672	672	671	668	672	675	674	671	671	674	671	673	672	671	672	671	672	671	673	672	672	671	672	673	676	672	669	673	671	675	672	672	673	672	670	673	673	672	673	673	672	672	671	672	671	667	675	672		
JMJG	U003	596	595	640	683	668	671	671	671	673	671	671	670	670	679	669	669	672	668	672	671	671	669	672	673	670	667	670	671	673	671	670	667	668	671	671	669	671	669	673	670	671	670	669	670	665	671	671	670		
JMJG	U004	906	905	903	825	806	806	808	806	804	805	807	805	809	807	806	806	806	818	904	904	902	905	904	903	903	904	901	903	906	904	903	906	903	902	904	904	904	903	905	905	904	904	901	905	906	906	903	904	902	
PKLG	U003	279	281	282	283	282	281	279	207	184	188	236	234	236	237	261	281	281	282	283	282	281	280	282	281	282	281	282	284	281	278	279	280	280	281	279	281	280	282	280	282	279	279	279	282	282	282	282	282		
PKLG	U004	283	281	279	280	279	279	278	203	180	184	187	186	188	187	185	186	200	251	280	280	278	280	279	278	278	278	281	281	281	281	280	280	280	280	280	281	280	280	280	276	278	280	280	280	280	280	283			
PKLG	U005	468	468	467	467	466	467	428	358	285	269	269	268	268	271	267	269	285	378	455	473	467	468	468	467	464	481	466	458	461	467	466	466	459	468	465	465	466	466	465	466	464	468	468	473	466	465	466	468		
PKLG	U006	449	451	452	451	449	449	451	446	447	441	451	449	449	445	451	448	442	448	449	446	447	447	447	447	349	349	265	262	265	265	263	266	265	327	339	349	341	372	434	444	442	441	447	352	425	449	451	447		
TBIN	U001	687	688	687	687	689	685	687	689	690	689	688	687	689	689	689	691	689	691	687	690	687	686	689	689	688	682	690	690	689	689	687	691	690	689	687	690	690	687	690	687	689	689	690	691	690	689	689	689	689	
TBIN	U002	693	692	692	694	688	686	691	694	692	688	692	695	693	694	691	694	695	694	690	690	690	689	692	691	690	694	692	692	692	690	691	693	691	692	692	692	693	690	694	691	690	692	692	692	692	692	691	691		
TBIN	U003	690	689	689	690	690	686	689	689	688	692	688	690	691	689	689	687	689	689	693	689	691	693	690	687	687	690	689	689	690	689	689	693	689	688	688	691	689	690	690	688	691	689	691	691	689	689	689	694		
TBIN	U004	983	970	893	888	888	803	802	802	804	803	802	803	803	801	803	807	801	834	923	983	983	983	981	983	983	981	983	983	982	982	984	982	982	982	982	983	983	982	983	983	982	982	983	980	982	983	982	983		
Total ST-Coal		10063	10037	9835	9761	9560	9472	9436	9230	9097	9093	9150	9142	9156	9157	9170	9207	9218	9540	10064	10138	10114	10118	10126	10118	10118	10018	10027	9935	9934	9942	9927	9929	9945	9924	9995	10007	10023	10015	10042	10118	10115	10109	10104	10114	10039	10088	10118	10123	10133	
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	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	0	0	0	
CBPS	BLK2	349	363	349	217	224	224	217	223	223	226	221	221	220	221	221	223	223	244	361	361	362	361	359	359	361	357	357	356	355	355	356	355	357	358	358	351	359	361	361	361	362	362	361	362	358	358	361	357		
GLGR	GT02	105	109	110	110	110	95	96	95	95	95	95	95	95	95	95	95	95	98	97	97	97	106	105	96	95	97	106	105	106	106	106	95	97	96	96	96	97	96	97	97	96	97	96	96	97	96	96	97	96	
GLGR	ST1C	34	42	43	43	44	36	36	35	35	35	36	35	35	36	36	35	36	35	36	35	36	37	108	41	37	36	35	37	41	41	41	41	37	36	36	36	36	35	35	35	35	35	35	35	35	35	35	35	35	35
KLPP	GT13	107	69	64	68	69	69	69	69	69	69	69	68	68	69	69	64	71	137	135	134	136	137	136	136	136	136	136	136	136	136	137	137	136	136	138	113	113	113	137	138	138	138	138	138	138	138	137	112		
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	134	146	154	155	155	155	155	155	155	154	156	156	156	155	155	157	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KLPP	GT15	116	80	76	80	81	80	80	79	79	80	81	80	80	80	82	80	99	133	131	149	161	161	161	161	160	160	160	158	159	159	160	160	160	160	160	160	127	124	124	123	155	163	163	162	162	163	163	163	163	155
KLPP	ST17	117	88	84	90	92	93	93	91	91	93	93	92	92	93	93	93	92	138	201	206	209	207	201	201	205	201	201	202	201	201	202	202	202	202	205	185	117	122	118	135	131	131	133	133	133	133	133	134	127	
NPRI	BLK1	506	517	502	455	448	374	323	391	413	382	357	399	367	406	352	340	526	510	510	511	509	510	511	509	511	510	510	514	511	506	511	510	511	505	511	500	510	505	511	511	511	509	503	511	511	510	509	509	509	
NPRI	BLK2	509	520	506	520	523	376	316	394	413	381	360	400	365	402	350	337	528	512	512	503	512	512	511	514	513	513	514	517	514	508	512	512	512	506	514	503	512	508	512	512	513	512	506	513	514	513	514	509	509	
PCLG	PGRG	447	447	447	447	449	449	395	211	209	206	210	210	210	211	215	276	401	401	501	502	602	601	602	604	603	601	606	603	599	601	600	600	596	602	591	601	545	552	602	602	602	595	603	552	552	551	547			
PGLA	GT11	188	171	171	172	171	171	172	170	171	171	171	171	171	171	171	170	171	170	170	201	200	201	200	200	200	200	202	203	203	203	203	200	200	200	198	169	168	168	203	203	203	203	203	203	203	203	203	203		
PGLA	GT12	212	195	190	196	196	196	191	196	194	197	196	196	197	197	194	196	197	197	196	196	250	250	251	251	250	246	246	245	227	227	227	227	227	227	227	227	227	200	167	170	170	190	228	228	228	228	228	228	228	228
PGLA	ST10	230	208	207	207	207	208	208	209	207	207	207	208	208	208	207	207	207	207	209	238	240	240	241	241	241	241	241	241	243	243																				

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	
CEND	HY01	9	9	10	9	10	9	9	9	10	10	9	9	9	10	9	9	8	8	8	8	8	8	8	8	
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8	8	
CEND	HY03	10	10	10	10	10	9	10	10	10	10	10	10	9	10	10	10	10	8	8	8	8	8	8	8	
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	99	99	99	99	100	100	59	-1	-1	
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	101	101	101	101	100	100	54	63	-1	
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	35	35	35	35	24	0	0	0	0	
KNRG	HY02	23	38	38	28	27	28	27	27	27	28	28	28	27	27	28	24	25	25	37	36	36	36	36	36	
KNRG	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	24	24	36	35	35	35	35	35	35	
KNYR	HY01	95	98	95	95	97	97	96	99	99	59	57	58	58	58	60	98	96	99	99	99	99	99	98	98	
KNYR	HY02	61	98	95	96	98	98	97	98	98	-1	-1	-1	-1	-1	98	75	98	97	97	65	93	91	87	85	
KNYR	HY03	95	0	0	0	0	0	0	0	0	0	0	0	60	98	96	99	99	99	99	99	99	99	99	99	
KNYR	HY04	97	100	97	97	99	99	98	100	100	58	-1	-1	-1	-1	100	98	100	99	100	100	99	100	99	100	
LPJA	HY01	17	17	17	17	17	17	17	17	17	17	17	15	15	15	15	15	15	15	16	16	16	16	16	16	
LPJA	HY02	16	16	16	16	16	16	16	16	16	16	16	16	15	15	15	15	12	12	12	14	14	14	14	14	
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	6	6	6	6	7	7	7	7	4	
PGAU	HY01	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY02	-1	21	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	
PGAU	HY03	22	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	50	50	30	30	30	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	50	50	30	30	30	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	50	50	30	30	30	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	17	17	17	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	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	17	25	25	17	17	17	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	17	17	17	
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	HY03	-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	HY04	28	32	28	32	32	32	29	32	32	32	32	32	31	31	31	32	31	32	31	32	32	32	32	32	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	96	97	95	93	-1	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	100	99	95	96	100	98	
UPIA	HY01	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	
UPIA	HY02	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	
Total Hydro		498	466	431	446	431	431	442	433	434	254	191	193	191	210	190	209	252	561	521	551	572	604	788	774	774
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	
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	3	3	2	3	3	3	4	3	4	5	3	4	5	4	4	4	2	5	3	2	22	31	32	31	7
PCUF	CUFK	4	3	4	3	6	1	2	3	1	2	4	3	4	3	3	2	-1	5	4	1	29	27	30	29	28

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	6	6	6	9	4	6	6	5	7	7	7	9	7	7	6	1	10	7	3	51	58	62	60	59	10	9	8	9	54	59	57	59	61	62	6	6	6	8	8	60	59	58	43	34	31	6	5		
Total Gen		15134	14824	14524	14235	14036	13713	13481	13242	13147	12925	12851	12925	12878	12968	12855	12892	13496	14526	15189	15774	16080	16465	16736	16922	16735	16667	16498	16800	17069	17429	17351	17394	17258	17206	16780	16203	15494	15291	15334	15973	16269	16260	16132	15940	15780	15764	15659	15397		
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	0
TIE-HVDC		-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-30	-29	-29	-30	-30	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-28	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-28	-28	-30	-30	-30	-30	
TIE-PLTG		18	4	21	-18	-13	14	13	5	38	-20	-43	12	-20	23	-2	0	14	-6	-12	27	36	108	40	35	37	37	23	-38	-17	-18	9	-15	-13	-44	-56	47	14	32	17	36	24	44	40	-9	28	25	13	12		
Interconnection		-11	-25	-8	-47	-42	-15	-16	-24	10	-49	-73	-18	-50	-6	-31	-30	-15	-35	-40	-2	7	79	12	6	8	8	-6	-66	-46	-47	-19	-44	-43	-73	-85	18	-15	3	-11	8	-4	15	12	-37	-2	-6	-17	-18		
System Total		15152	14856	14539	14289	14085	13735	13504	13273	13144	12981	12931	12950	12935	12981	12893	12929	13518	14568	15236	15783	16080	16393	16731	16923	16734	16666	16511	16873	17122	17483	17377	17445	17308	17286	16872	16192	15516	15295	15352	15972	16280	16252	16127	15984	15789	15777	15683	15422		
SRev ST-Coal		102	128	316	442	473	481	516	565	570	573	566	567	560	557	531	540	530	191	117	141	137	129	137	190	148	150	161	143	158	156	140	161	144	158	142	150	123	47	140	146	151	141	172	167	137	132	122			
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		925	1190	1253	1483	1469	1699	1908	1932	1894	1934	2002	1922	1983	1911	2017	2040	1506	1374	1365	981	743	465	411	238	346	330	405	295	444	263	291	221	253	274	261	660	1060	1263	1159	428	303	279	340	485	395	390	407	492		
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		63	64	64	64	61	66	64	64	65	63	63	63	61	63	63	64	69	60	63	67	19	12	8	10	11	60	61	62	61	16	11	13	11	9	8	64	64	64	62	62	10	11	12	27	36	39	64	65		
Syncon		1103	952	1103	952	1103	1103	952	1103	1103	1204	1305	1305	1305	1154	1305	1154	1305	1103	1015	1015	1015	1015	828	1015	1015	1015	828	576	238	389	389	389	389	763	738	1015	1015	1015	1015	651	738	952	801	1103	1103	1103	1204			
Hydro		299	232	116	252	116	116	256	114	113	192	154	152	154	286	155	287	193	126	167	137	116	124	427	254	254	313	315	424	415	652	514	534	608	593	449	478	157	161	150	195	433	373	322	430	199	247	215	200		
S.Reserve Total		2492	2566	2852	3193	3222	3465	3696	3778	3745	3966	4090	4009	4070	3974	4097	4076	3613	3193	2801	2317	2034	1753	1803	1654	1816	1866	1946	1770	1639	1327	1361	1297	1422	1409	1639	2082	2446	2626	2433	1840	1543	1552	1767	1915	1900	1916	1921	2083		