

Daily System Generation Summary on Thursday

Thursday, September 3, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,282 MW
Distillate	0 MW
Total TNB	2,282 MW
Total IPP	17,633 MW
Total Co-Gen	0 MW
Total System	22,384 MW

Generation Mix

Type	MWh	Percentage
Hydro	22,964	6.20 %
Gas	28,396	7.67 %
Total TNB	51,360	13.86 %
ST-Coal	253,325	68.38 %
LSS	2,748	0.74 %
Gas	63,459	17.13 %
Total IPP	319,532	86.26 %
Co-Gen	296	0.08 %
Total Co-Gen	296	0.08 %
Total Generation	371,188	100.20 %
PLTG	20	0.01 %
HVDC	721	0.19 %
Interconnection	741	0.20 %
Net Energy	370,447	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	18,902 MW
TNB Generation	3,005 MW
IPP Generation	14,633 MW
Spinning Reserve	1,233 MW
Maximum Demand	17,645 MW
Net Energy	370,447 MWH
Load Factor	87.48 %

Fuel Cost

Total Cost:	52,013,342.65 RM
Cost per Unit	14.00 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	609
Hydro	329
Syncon	507
Thermal	221
Total	1,666

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	48
TJGS	133
Total TNB	181
CBPS	46
KLPP	54
NPRI	135
PGLA	102
YPKA	36
Total IPP	372
Total Gas	553
Total Gas Required	553

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	14997	14367	14048	13509	13097	12944	13274	13365	13624	15363	16285	16747	16819	16593	17236	17645	17518	16960	15700	15680	16555	16387	15884	15536

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, October 5, 2020 2:00:16 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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	691	694	691	693	691	692	691	694	551	551	550	550	603	649	694	604	605	671	694	693	692	692	691	692	692	690	693	691	691	690	691	692	693	690	692	692	692	692	692	692	692	691	691	692	692	693	691	692	
JMAH	U002	695	693	692	695	695	696	695	698	546	553	554	556	611	648	696	615	602	672	695	697	694	693	695	695	693	694	696	694	692	695	693	694	694	697	694	690	698	693	693	692	695	694	693	694	695	695	693	693	
JMHE	U001	974	978	976	763	777	782	780	779	779	778	778	781	779	780	779	783	780	776	915	980	986	979	978	975	975	983	980	978	974	979	977	981	978	981	979	976	978	973	982	979	980	984	979	981	982	978	974	978	
JMHE	U002	981	980	977	781	778	781	778	781	780	780	779	780	781	778	780	784	780	777	777	894	983	978	980	975	976	984	981	980	974	980	975	982	980	981	980	977	979	975	981	981	979	982	980	980	980	978	977	981	
JMJG	U001	676	667	675	673	672	678	667	672	672	670	670	670	670	673	678	671	675	671	669	673	673	671	673	668	673	672	672	671	668	668	671	673	668	670	669	673	669	673	669	671	672	673	672	671	670	673	673	671	
JMJG	U002	687	662	667	666	667	671	677	662	665	675	664	671	672	656	668	672	676	666	671	671	679	672	672	671	676	672	671	661	671	677	682	671	673	674	672	673	677	672	673	674	676	673	673	672	674	672	675	673	
JMJG	U003	662	667	667	665	665	665	663	670	666	666	667	664	660	667	665	668	665	662	666	666	667	666	662	667	666	663	662	666	664	666	666	665	666	657	664	667	665	665	666	662	662	666	664	666	666	672	668	670	
JMJG	U004	974	977	979	977	977	979	928	878	848	821	791	791	790	787	788	786	788	813	897	979	980	974	972	971	972	972	974	972	971	972	974	973	975	975	976	973	973	973	972	972	971	973	972	972	972	972	972	972	
PKLG	U003	279	279	278	281	277	281	279	277	275	276	276	279	277	277	277	278	279	278	278	277	277	278	277	276	277	280	275	277	278	277	278	277	274	276	276	275	276	275	276	277	277	276	277	275	276	277	276	277	
PKLG	U004	278	278	277	276	272	278	277	276	274	275	276	279	279	277	277	273	276	279	278	277	277	277	277	280	278	277	275	277	281	277	278	276	277	275	276	274	280	281	278	277	276	277	276	277	276	277			
PKLG	U005	465	466	468	468	466	466	468	464	468	468	464	467	468	468	468	467	466	468	467	468	467	468	470	467	465	465	466	466	468	468	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466		
PKLG	U006	448	447	449	449	448	448	449	449	450	449	449	448	445	448	448	445	448	446	449	449	447	448	445	445	446	445	445	450	448	446	446	448	449	449	449	450	452	452	452	449	453	449	449	451	453	445	447	446	
TBIN	U001	690	690	691	691	692	691	693	692	691	690	691	691	692	689	690	656	690	689	689	691	691	689	691	690	689	693	691	690	687	687	691	690	692	691	690	687	690	690	691	692	692	690	691	691	692	690	691	688	
TBIN	U002	692	693	691	694	693	694	691	693	694	691	692	692	694	692	692	660	694	691	692	694	693	692	693	691	691	693	692	693	693	694	694	695	694	693	695	698	694	695	693	694	694	695	695	695	694	692	695	694	693
TBIN	U003	687	689	690	691	692	690	691	691	690	692	690	691	692	693	691	654	692	690	690	690	690	691	691	689	690	500	504	503	500	502	504	527	691	691	690	688	690	692	692	696	692	691	689	690	692	691	691	686	
TBIN	U004	982	982	982	982	982	780	780	780	780	780	780	780	780	780	780	780	780	860	980	980	980	980	985	983	981	983	981	981	983	982	982	984	982	982	982	982	983	983	984	983	983	983	981	982	982	981	982	983	
Total ST-Coal		1086110842108501044510444102721020710156 9829 9815 9771 9790 9893 9962 10071 9796 9896 10029103871078010876108481084710837108421066110665106481064010662106671069110856108481085010848108581085010860108601085810869108531085610864108551084810845																																																
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	
CBPS	BLK2	330	263	210	225	225	224	219	220	224	219	221	228	218	226	210	217	223	214	215	214	220	264	303	339	355	356	356	352	354	359	358	355	356	354	353	346	293	228	231	282	347	361	360	353	346	287	228	199	
GLGR	GT01	94	66	67	68	67	68	67	68	69	67	68	68	68	67	67	69	69	80	83	103	103	103	95	65	67	67	106	102	104	104	104	103	103	77	83	73	67	67	81	85	85	83	68	68	67	67	67		
GLGR	GT02	94	67	68	68	68	68	67	68	68	67	68	68	68	67	68	68	81	84	103	103	103	103	94	67	67	67	105	104	104	104	104	104	104	104	76	85	72	68	67	82	84	85	84	67	68	67	68	68	
GLGR	ST1C	91	73	72	72	72	72	71	72	72	72	72	72	72	72	72	72	76	78	96	96	96	96	93	72	72	72	93	95	95	96	95	94	82	79	80	73	72	77	85	82	83	73	73	72	72	72	72		
KLPP	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	111	131	132	134	132	110	110	109	106	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	133	142	123	121	118	154	155	157	158	114	114	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	GT15	129	134	130	130	131	131	129	130	129	135	129	135	131	127	123	131	135	131	130	126	137	127	135	134	134	119	123	158	158	158	158	111	111	121	121	124	124	129	130	153	153	137							

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	10	10	10	9	10	9	10	9	10	10	9	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	10	10	10	10	10	10	10	10	10					
CEND	HY02	10	10	10	10	10	9	10	10	10	10	9	9	10	9	10	10	10	9	10	10	10	10	10	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	HY03	9	9	9	9	9	9	9	9	9	9	10	9	9	9	9	9	10	9	10	10	10	10	10	10	9	9	10	10	10	10	10	9	10	10	10	10	10	10	10	10	9	10	10	9	10	10	9	10			
CEND	HY04	7	7	7	7	7	8	7	8	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	64	122	122	122	122	122	121	121	122	122	122	121	121	122	122	121	121	62	62	121	121	122	122	122	122	63	63	-1	-1		
HTRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	62	121	122	122	122	122	121	121	122	122	122	121	121	122	122	120	121	63	63	121	122	121	122	122	122	63	63	63	0	
KNRG	HY01	36	36	36	36	36	36	36	36	0	0	0	0	0	0	0	0	0	0	0	0	36	36	36	36	36	37	37	37	37	37	37	37	37	37	36	36	36	36	36	21	21	21	22	21	22	21	22	22	21		
KNRG	HY02	37	37	37	37	37	37	37	37	0	0	0	0	0	0	0	0	0	0	0	0	37	37	37	37	37	0	0	0	0	0	0	0	0	0	37	37	37	37	37	37	22	23	22	22	22	21	22	22	22	21	
KNRG	HY03	36	36	36	36	36	36	36	36	23	24	24	24	24	24	24	23	23	24	36	36	36	36	36	36	37	37	37	37	37	36	37	37	37	37	36	36	36	36	36	21	21	21	22	21	21	21	22	21	20		
KNYR	HY01	94	98	95	98	100	58	57	0	0	0	0	0	0	0	0	0	0	0	99	95	95	95	101	101	101	99	101	100	96	99	100	99	99	99	99	99	97	96	95	99	100	101	100	100	99	97	98	98	99	92	
KNYR	HY02	96	99	97	99	99	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	99	96	96	96	100	100	100	100	100	96	99	100	99	100	99	99	99	99	99	98	97	96	100	100	100	100	100	99	98	98	100	93		
KNYR	HY03	94	98	95	98	100	58	57	0	0	0	0	0	0	0	0	0	0	97	94	94	94	100	100	99	97	99	98	94	97	99	97	97	97	97	96	95	94	98	98	100	98	98	98	97	96	96	98	90			
KNYR	HY04	94	99	95	99	100	58	57	56	59	60	59	59	60	101	55	32	59	99	96	96	96	101	101	101	100	101	100	96	99	101	99	99	99	99	99	98	97	96	100	100	101	100	100	100	99	97	98	99	92		
LPIA	HY01	0	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	16	16	16	15	16	15	15	14	14	15	16	17	17	17	17	17	17	15	15	15	15	15	16	16		
LPIA	HY02	27	20	18	15	15	15	18	18	18	17	16	16	16	16	15	15	16	16	16	16	16	16	16	16	16	16	17	17	17	16	16	15	15	15	15	16	16	16	16	16	16	15	15	15	15	15	15	15			
MNOR	HY01	5	5	5	5	5	5	5	5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5	6	6	6	6	6	4	4	5	5	5	5	5	5	7	7	7	7		
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	21	21	21	21	21	21	21	21	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
PGAU	HY03	-1	-1	-1	-1	-1	21	-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	-1	-1	-1	-1	-1	-1	-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	0	0	0	30	21	20	21	21	21	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0		
SIHY	HY02	50	50	30	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31	31	31	31	50	50	50	50	0	0	50	50	50	50	50	50	50	50	50	50	
SIHY	HY03	50	50	30	30	30	30	30	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31	31	31	31	50	50	50	49	0	0	50	50	49	50	49	50	49	50	50	50	
SYPS	HY01	25	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	17	17	17	25	25	25	25	0	0	25	25	25	25	25	25	25	25	0	0	0	
SYPS	HY02	25	16	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	17	17	17	25	25	25	25	0	0	25	25	25	25	25	25	25	0	0	0		
SYPS	HY03	25	25	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	17	17	17	25	25	25	25	0	0	25	25	25	25	25	25	25	25	0	0	0	
SYPS	HY04	25	25	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	17	17	17	25	25	25	25	0	0	25	25	25	25	25	25	25	25	0	0	0	
TMGR	HY01	41	32	29	32	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	83	83	83	83	83	83	83	83	83	83	84	84	83	83	83	83	83	83	83	83	61	42	42	42	42	41	41	42	42	42	29	
TMGR	HY02	42	33	28	33	33	33	33	32	33	33	33	33	33	33	33	30	32	33	31	88	87	88	88	88	88	88	88	88	88	86	88	88	88	88	88	88	88	88	88	62	44	44	44	43	44	43	42	44	44	44	25
TMGR	HY03	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	78	78	77	81	81	81	81	78	81	81	75	79	81	81	81	81	84	84	84	84	57	40	40	40	40	40	39	39	40	40	-1	
TMGR	HY04	38	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	83	83	85	85	84	85	85	85	85	85	82	85	85	85	85	85	85	85	85	58	41	41	41	41	41	40	39	41	41	41	24	
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	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1					
UPIA	HY01	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	5	5	5	5	4	4	5	5	4	5	4	5	4	4	4	4	4	4	4	5	5	5	5	5		
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	5	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5			
Total Hydro		987	900	822	839	707	503	480	248	223	223	220	221	221	264	211	214	303	921	964	1022	1094	1234	1256	1217	1276	1378	1313	1375	1447	1468	1547	1524	1521	1561	1423	1223	998	1094	1218	1245	1335	1241	1235	1228	1093	994	937	751			
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	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	2	6	9</																																

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	
PCUF	CUFG	4	3	3	3	3	4	3	4	4	4	4	4	3	3	3	4	5	3	3	4	5	3	5	3	3	4	3	4	4	3	24	39	39	39	39	3	4	3	4	5	3	4	2	4	3	2	2	2
PCUF	CUFK	3	3	3	2	2	4	4	5	3	2	3	4	4	3	3	4	3	1	3	3	4	3	4	4	3	3	2	3	3	7	29	29	29	29	4	3	3	5	5	4	6	2	4	3	1	3	4	
Total Co-Gen		7	6	6	5	5	8	7	9	7	6	7	8	7	6	6	8	8	4	6	7	9	6	9	7	6	7	6	6	7	6	31	68	68	68	68	7	7	6	9	10	7	10	4	8	6	3	5	6
Total Gen		15020	14640	14391	14216	14073	13658	13533	13370	13121	13061	12966	13041	13297	13502	13389	13168	13647	14788	15386	15953	16309	16676	16771	16909	16843	16632	16617	16999	17259	17567	17669	17666	17543	17454	16983	16434	15722	15552	15702	16450	16578	16533	16412	16208	15907	15781	15561	15241
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		
TIE-HVDC		29	29	30	30	31	31	30	30	30	29	29	31	31	30	30	29	29	29	29	29	30	30	30	30	30	31	31	30	30	30	30	31	31	30	30	29	29	29	29	30	30	31	31	29	29	31	31	
TIE-PLTG		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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Interconnection		30	30	31	31	32	32	31	31	31	31	30	30	31	31	31	31	30	30	30	30	31	31	31	31	31	31	32	32	31	31	31	31	32	31	31	31	30	30	30	30	31	31	32	32	30	30	32	32
System Total		14997	14617	14367	14192	14048	13633	13509	13346	13097	13037	12944	13019	13274	13479	13365	13144	13624	14765	15363	15930	16285	16652	16747	16885	16819	16608	16593	16975	17236	17543	17645	17642	17518	17431	16960	16411	15700	15529	15680	16428	16555	16510	16387	16183	15884	15758	15536	15216
SRev ST-Coal		194	213	205	372	367	423	484	510	645	630	649	635	636	611	504	743	625	563	370	263	179	207	208	218	213	264	190	207	215	193	188	364	199	207	205	207	197	205	195	195	197	186	202	199	191	200	207	210
SRev CCGT-Gas		1401	1660	1839	1625	1635	1749	1784	1773	1655	1699	1750	1698	1626	1596	1834	1796	1664	1327	1176	1254	1091	506	623	500	629	816	1019	684	588	314	310	290	491	564	820	838	1017	1133	1093	369	328	311	404	609	780	796	954	1149
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 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 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 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		802	889	889	889	976	926	1077	1077	1077	1077	1077	1077	1077	1077	926	1077	802	802	802	676	676	525	525	525	338	525	525	338	338	151	338	338	338	676	676	676	676	676	525	338	525	525	525	676	676	802	890	
Hydro		240	180	258	241	186	440	312	214	189	189	191	190	190	147	201	349	196	133	90	157	211	71	200	199	240	325	352	390	505	485	593	429	432	391	78	78	303	361	286	410	507	414	421	428	412	411	342	315
S.Reserve Total		2637	2942	3191	3127	3164	3538	3657	3574	3566	3595	3667	3600	3529	3431	3616	3814	3562	2825	2438	2476	2157	1460	1556	1442	1607	1743	2086	1806	1646	1330	1242	1421	1460	1500	1779	1799	2193	2375	2250	1499	1370	1436	1552	1761	2059	2083	2305	2564