

Daily System Generation Summary on Tuesday

Tuesday, March 17, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,097 MW
Distillate	0 MW
Total TNB	2,097 MW
Total IPP	18,586 MW
Total Co-Gen	0 MW
Total System	23,062 MW

Generation Mix

Type	MWh	Percentage
Hydro	7,038	1.85 %
Gas	28,951	7.61 %
Total TNB	35,989	9.46 %
ST-Coal	254,538	66.89 %
LSS	2,667	0.70 %
Gas	86,715	22.79 %
Total IPP	343,920	90.38 %
Co-Gen	476	0.13 %
Total Co-Gen	476	0.13 %
Total Generation	380,385	99.97 %
PLTG	565	0.15 %
HVDC	-698	-0.18 %
Interconnection	-133	-0.03 %
Net Energy	380,518	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:	16:00:00 Hour
Total Set On Bus	19,791 MW
TNB Generation	2,071 MW
IPP Generation	15,873 MW
Spinning Reserve	1,800 MW
Maximum Demand	18,025 MW
Net Energy	380,518 MWH
Load Factor	87.96 %

Fuel Cost

Total Cost:	59,977,631.22 RM
Cost per Unit	15.77 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	755
Hydro	218
Syncon	1,085
Thermal	186
Total	2,244

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	28
TJGS	176
Total TNB	204
CBPS	47
KLPP	84
NPRI	141
PGLA	100
PLPS	36
SGRI	83
YPKA	34
Total IPP	526
Total Gas	730
Total Gas Required	730

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	16326	15489	14909	14329	13869	13577	13482	13415	13829	15605	16542	17070	17053	16876	17549	17868	18025	17477	16156	15695	16882	16689	16270	15796

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, April 02, 2020 11:02:33 AM
(Ir. Shanmugam Thoppalan)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Tuesday

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			
YPKA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	127	68	68	68	100	100	69	68	68	101	124	125	125	125	125	125	124	118	68	67	68	68	81	66	66	0	0	0	0	0		
YPKA	GT12	66	67	67	67	67	67	67	67	67	66	67	67	67	66	67	66	66	66	78	68	68	68	101	101	70	69	69	103	126	126	126	126	126	126	126	120	69	69	69	68	82	66	66	66	65	65	66	65		
YPKA	ST10	31	31	31	31	31	31	30	31	31	31	31	31	31	30	31	30	30	28	95	79	79	79	98	100	87	81	81	102	116	119	118	119	120	119	120	115	82	81	81	82	87	78	45	31	31	31	31	31		
Total CCGT-Gas		5238	4858	4485	4404	4236	3898	3906	3885	3952	3745	3872	3745	3721	3942	3928	3630	3781	4364	4562	4648	5018	5157	5424	5465	5362	5182	5227	5440	5654	5933	5933	6052	6074	5934	5745	5563	4892	4463	4432	5034	5539	5437	5375	5228	5033	4847	4595	4513		
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	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	11	11	11	12	11	11	11	12	11	11	11	11	12	12	11	11	11	11	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	11	11	11	11	10	10	10	11	11	12	11	11	11	11		
CEND	HY01	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
CEND	HY03	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
HTRG	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	-1	-1		
KNRG	HY03	23	23	23	24	24	23	23	23	24	24	23	23	23	24	24	23	24	23	23	24	23	23	23	23	23	23	35	35	35	35	35	35	35	35	35	35	35	35	23	22	22	22	35	35	23	24	23	23	24	
KNYR	HY02	-1	-1	96	101	100	97	98	97	101	101	101	101	99	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	60	60	-1	-1	-1	-1	93	93	-1	-1	-1	-1	-1	-1	-1			
KNYR	HY03	0	0	0	101	99	97	97	97	101	100	101	100	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
KNYR	HY04	55	57	96	101	100	97	97	97	103	101	101	100	99	65	61	56	59	59	56	55	59	57	58	58	58	58	57	58	61	60	60	60	60	60	60	53	59	53	52	93	93	58	59	60	59	60	59	59		
LPIA	HY01	14	14	14	15	15	15	15	15	15	15	15	15	15	15	8	8	8	12	12	12	12	15	15	15	15	15	17	17	17	17	16	12	12	12	13	14	14	14	16	16	16	16	12	12	13	13	14			
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5	5	3	3	3	3	3	3	3	3	3	3	3	3			
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	18			
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
PGAU	HY03	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	16	-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	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	0	0	0	0	0	0	0	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	0	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	0	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	0	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	0	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	0	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	-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	33	30	31	34	33	32	32	33	33	33	33	34	33	34	34	29	33	32	29	33	33	33	33	32	33	32	33	32	34	33	34	34	34	34	34	27	31	27	30	29	29	38	38	36	36	36	36	36		
TMGR	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	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	-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	-1	-1		
UPIA	HY01	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
UPIA	HY02	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	7	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Total Hydro		152	151	288	405	399	410	412	390	406	402	401	400	394	185	155	143	151	184	147	151	154	174	175	192	200	175	176	254	453	458	548	525	586	583	482	266	276	253	255	298	314	192	175	180	158	159	158	179		
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	0	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	10	14	18	18	23	21	26	27	28	21	25	22	21	18	15	10	8	7	4	3	1	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	4	11	17	24	30	35	38	42	45	47	48	47	47	46	42	36	34	33	23	19	10	8	3	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	2	8	15	22	24	22	29	41	21	39	41	16	5	1	0	5	21	8	3	1	0	0	0	0										

Daily MW Generation on Tuesday

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		18	13	15	13	12	15	16	16	14	15	12	14	16	13	15	14	16	13	14	14	15	13	16	14	15	14	15	15	16	11	14	42	47	46	47	45	18	11	12	41	47	46	46	19	10	10	10	11		
Total Gen		16304	15858	15495	15141	14934	14573	14307	14052	13849	13640	13570	13460	13444	13434	13412	13502	13743	14859	15579	16089	16521	16695	17003	17094	17028	16843	16845	17176	17534	17755	17847	17855	17991	17848	17472	17012	16277	15823	15777	16456	16957	16732	16643	16474	16231	16052	15782	15485		
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	-30	-30	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-28	-28	-30	-30	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	
TIE-PLTG		10	92	38	20	58	-3	10	-40	13	-3	27	-35	-6	-39	29	91	-53	83	6	-11	11	-26	-35	15	8	-19	0	-6	18	-1	12	-19	-1	24	28	212	153	127	115	117	109	6	-14	12	-6	-9	18	-4		
Interconnection		-19	63	9	-10	28	-32	-19	-69	-17	-33	-4	-64	-35	-68	0	62	-83	53	-23	-39	-18	-56	-64	-15	-22	-48	-28	-35	-11	-30	-17	-48	-30	-5	-1	184	125	97	86	87	79	-22	-42	-17	-35	-38	-10	-32		
System Total		16326	15798	15489	15154	14909	14608	14329	14124	13869	13676	13577	13527	13482	13505	13415	13443	13829	14809	15605	16131	16542	16754	17070	17112	17053	16894	16876	17215	17549	17789	17868	17907	18025	17857	17477	16832	16156	15730	15695	16373	16882	16758	16689	16494	16270	16094	15796	15521		
SRev ST-Coal		303	332	466	682	683	729	783	865	1026	1028	1025	1029	1032	1032	1025	844	803	701	465	163	155	168	153	172	170	147	195	169	161	161	180	205	154	160	157	170	169	130	167	148	174	174	184	184	201	155	172	341		
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		893	914	1142	1223	1391	1729	1721	1742	1675	1882	1755	1882	1906	1685	1699	1997	1846	1546	1485	1399	1029	890	623	582	685	865	820	607	688	409	549	430	408	548	737	919	1374	1803	1834	1232	727	829	826	690	813	999	1251	1108		
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		59	64	62	64	65	62	61	61	63	62	65	63	61	64	62	63	61	64	63	63	62	64	61	63	62	63	62	62	61	66	63	35	30	31	30	32	59	66	65	36	30	31	31	58	67	67	67	66		
Syncon		1141	1141	1040	1040	1040	889	889	1040	1040	1040	1040	1040	990	1141	1141	1141	1141	1141	1141	1141	1141	1141	1141	990	990	1141	1141	1141	1141	1141	990	1141	1040	1040	1141	1141	1141	1141	1141	1141	1141	1141	990	1141	1141	1141	990			
Hydro		163	164	128	111	117	257	255	126	110	114	108	109	115	274	153	165	157	174	161	157	154	284	283	417	409	283	282	303	204	199	260	132	172	175	175	191	181	204	202	260	265	135	132	279	149	148	149	279		
S.Reserve Total		2559	2615	2838	3120	3296	3666	3709	3834	3914	4126	3993	4123	4154	4045	4080	4210	4008	3626	3315	2923	2541	2547	2261	2224	2316	2499	2500	2282	2255	1976	2042	1943	1804	1954	2240	2453	2924	3344	3409	2716	2085	2310	2314	2201	2371	2510	2780	2784		