

Daily System Generation Summary on Thursday

Thursday, June 18, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,339 MW
Distillate	0 MW
Total TNB	2,339 MW
Total IPP	17,753 MW
Total Co-Gen	0 MW
Total System	22,915 MW

Generation Mix

Type	MWh	Percentage
Hydro	13,496	3.81 %
Gas	37,265	10.52 %
Total TNB	50,761	14.33 %
ST-Coal	231,843	65.45 %
LSS	1,497	0.42 %
Gas	69,223	19.54 %
Total IPP	302,563	85.41 %
Co-Gen	436	0.12 %
Total Co-Gen	436	0.12 %
Total Generation	353,760	99.87 %
PLTG	223	0.06 %
HVDC	-699	-0.20 %
Interconnection	-476	-0.13 %
Net Energy	354,236	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	18,032 MW
TNB Generation	2,705 MW
IPP Generation	13,718 MW
Spinning Reserve	1,547 MW
Maximum Demand	16,557 MW
Net Energy	354,236 MWH
Load Factor	89.15 %

Fuel Cost

Average Spinning Reserve During Peak Hour

Type	MW
GT	738
Hydro	221
Syncon	779
Thermal	183
Total	1,921

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	48
TJGS	190
Total TNB	237
CBPS	49
KLPP	36
MPSS	13
NPRI	136
PGLA	75
PLPS	56
SKSP	51
YPKA	19
Total IPP	435
Total Gas	672

Total Gas Required 672

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	14652	13862	13408	12987	12742	12665	12621	12781	13161	14768	15383	15862	16068	15787	16207	16457	16366	16001	15804	14825	15747	15605	15146	14900

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, July 07, 2020 2:05:00 PM

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

Daily MW Generation on Thursday

[illegible]

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	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	12	12	12	11	12	13	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	11	12	12	12	12	12	12	12	12	12	11	12	12	12	12	12	12	12	11	12	11	12	12	12	12	12	12			
BSIA	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			
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8				
CEND	HY02	8	9	9	9	9	9	9	9	9	9	9	9	9	8	9	8	9	8	9	9	9	9	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9	9	9	9	9	9	9	9	9	9	9	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	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	-1	-1	-1	-1	62	62	62	62	62	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
KNRG	HY03	21	21	21	21	22	23	21	21	21	21	22	21	22	22	22	21	22	22	22	21	22	22	21	21	21	22	22	21	21	21	21	21	21	22	21	22	22	22	22	22	22	21	21	21	22	21	21	21	21			
KNYR	HY01	97	94	97	95	56	101	99	98	64	64	69	64	65	68	99	64	100	99	98	96	99	99	99	94	98	97	63	99	99	99	99	99	98	98	98	96	96	96	59	98	99	96	98	95	96	97	98	98	98			
KNYR	HY02	97	96	97	97	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	45	98	97	97	97	97	97	96	97	97	98	97	97	97	97	97	97	97	97	97	97	97	60	97	97	97	97	97	97	97	-1	-1				
KNYR	HY03	97	95	97	95	0	0	0	0	0	0	0	0	0	0	0	0	0	99	98	96	98	99	98	94	98	97	98	98	98	99	99	98	98	96	96	96	96	96	99	99	99	96	98	96	97	98	98	99	99			
KNYR	HY04	99	97	99	97	56	101	101	100	-1	-1	-1	-1	-1	59	-1	-1	57	100	99	98	99	99	99	96	99	98	99	99	99	99	99	99	98	98	98	96	96	96	96	59	99	99	99	98	98	99	98	98	99	58	57	
LPJA	HY01	19	22	22	18	18	16	16	16	16	16	15	15	15	15	15	15	15	17	17	19	20	22	22	22	22	22	20	20	20	20	20	20	20	20	20	20	20	20	20	20	21	22	22	22	22	22	22	22	22			
LPJA	HY02	19	22	22	16	16	16	14	14	14	12	12	11	10	10	10	10	10	10	12	17	19	20	22	22	22	22	22	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	21	21	21	20	21	21	21	21		
MNOR	HY01	5	5	5	5	5	5	5	5	5	3	3	3	3	3	3	3	4	4	5	5	7	7	7	7	7	7	6	6	7	7	7	7	7	7	7	5	5	5	5	5	5	6	6	6	6	6	6	6	6			
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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			
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	-1	-1				
SIHY	HY01	30	30	30	30	30	30	30	30	30	30	0	0	0	0	0	0	0	0	30	51	51	51	51	51	51	51	31	31	31	31	31	51	51	51	31	31	31	31	31	31	0	51	50	50	31	31	31	31	31			
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	30		
SIHY	HY03	30	30	30	30	30	30	30	30	30	0	0	0	0	0	0	0	0	0	0	30	50	50	50	50	50	50	30	30	30	30	30	50	50	50	30	30	30	30	30	0	0	0	22	49	29	30	30	30	30	30		
SYPS	HY01	17	17	17	17	17	17	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	25	25	25	25	25	25	25	17	17	17	17	17	0	0	0	25	25	17	17	17	17	17	17		
SYPS	HY02	17	17	17	17	17	17	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	25	25	25	25	25	25	25	16	16	16	16	16	16	0	0	0	25	25	17	7	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	25	25	25	25	25	25	16	16	16	16	25	25	25	25	17	17	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	25	25	25	17	17	17	17	17	25	25	25	25	17	17	17	17	17	17	17	17		
TMGR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	30	-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			
TMGR	HY02	31	33	32	32	33	33	33	33	33	32	33	33	33	34	33	34	34	34	34	34	34	34	33	32	33	34	34	34	34	34	33	34	34	34	34	32	34	34	34	34	34	31	33	33	34	33	33	33	32			
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	-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	HY01	-1	-1	-1	-1	-1	67	96	-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	-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	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6			
UPIA	HY02	4	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	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	4	3
Total Hydro		612	614	621	604	334	492	514	415	280	181	187	180	180	244	213	179	319	537	575	616	647	666	666	683	666	584	554	643	639	823	915	883	884	837	645	646	646	646	474	576	728	691	726	671	643	619	482	529				
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	0		
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	5	7	17	16	18	14	22	21	27	14	26	12	16	7	8	10	1	0	0	0	1	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	1	5	9	12	23	17	29	4	11	22	12	9	6	8	26	16	7	8	5	17	14	14	14	14	2	1	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	1	5	10	17	23	27	31	33	32	29	15	13	16	27	14	7	4	4	4	4	8	12	12	12	2	0	0	0	0	0	0	0	0	0	0	0	0</	

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 Gen		14648	14226	13849	13624	13346	13257	12992	12877	12779	12590	12603	12536	12564	12650	12716	12630	13131	14059	14672	14995	15437	15641	15911	16192	16062	15867	15767	16055	16169	16485	16428	16363	16332	16335	16002	15724	15724	15724	14789	15458	15792	15786	15551	15351	15071	15005	14874	14625		
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	-30	-30	-28	-28	-29	-29	-29	-29	-29	-29	-29	-30	-30	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-30	-30	-29	-29	-29	-29	-28	-28	-29			
TIE-PLTG		28	59	20	28	-30	15	37	45	69	67	-31	29	-25	20	-32	7	4	-44	-63	-22	86	31	82	40	27	30	13	59	-6	-40	4	0	-3	-18	34	-48	-48	-48	-5	21	79	87	-21	-21	-42	-47	6	13		
Interconnection		0	29	-9	-1	-58	-14	8	15	40	38	-59	0	-54	-10	-61	-22	-26	-74	-93	-51	57	1	52	11	-3	1	-16	31	-35	-69	-26	-29	-31	-47	4	-77	-77	-77	-33	-9	49	58	-50	-50	-71	-75	-22	-16		
System Total		14652	14201	13862	13629	13408	13274	12987	12865	12742	12555	12665	12539	12621	12663	12781	12656	13161	14137	14768	15049	15383	15643	15862	16184	16068	15869	15787	16027	16207	16557	16457	16395	16366	16385	16001	15804	15804	15804	14825	15470	15747	15732	15605	15405	15146	15084	14900	14645		
SRev ST-Coal		336	382	492	491	605	464	439	451	445	445	436	450	441	445	443	495	453	452	302	196	171	160	162	122	151	150	162	152	155	159	178	159	156	158	143	153	153	153	137	140	126	141	250	289	303	317	353	604		
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		1651	1827	1890	2091	2045	1740	2049	2060	2022	2068	2014	2063	2047	2053	1855	1876	1628	1051	1046	951	612	556	480	690	757	859	888	705	682	497	583	638	653	637	783	1042	1042	1042	1558	959	786	741	901	1008	1023	1053	1011	1025		
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		66	65	65	66	63	67	67	64	67	65	65	64	62	64	66	66	67	66	63	64	68	66	64	65	66	66	67	67	12	10	11	12	9	11	9	8	8	8	63	63	67	66	67	66	66	65	65	65		
Syncon		890	890	890	890	991	804	804	991	1092	1092	1092	1092	1092	991	1092	1092	890	739	890	890	739	890	977	890	977	977	977	977	977	577	426	577	577	426	890	890	890	890	890	890	703	890	890	739	890	890	991	840		
Hydro		181	179	172	189	258	288	266	178	212	161	155	162	162	199	128	162	224	257	169	128	248	128	127	197	127	209	238	150	154	309	417	274	273	471	199	198	198	198	270	118	202	152	117	323	200	174	210	364		
S.Reserve Total		3124	3343	3509	3727	3962	3363	3625	3744	3838	3831	3762	3831	3804	3752	3584	3691	3262	2565	2470	2229	1838	1800	1810	1964	2078	2261	2332	2051	1980	1552	1615	1660	1668	1703	2024	2291	2291	2291	2918	2170	1884	1990	2225	2425	2482	2499	2630	2898		