

Daily System Generation Summary on Sunday

Sunday, March 10, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,217 MW
Distillate	0 MW
Total TNB	2,217 MW
Total IPP	14,965 MW
Total Co-Gen	0 MW
Total System	20,261 MW

Generation Mix

Type	MWh	Percentage
Hydro	5,874	1.76 %
Gas	36,767	11.04 %
Total TNB	42,641	12.80 %
ST-Coal	189,270	56.81 %
LSS	1,429	0.43 %
Gas	97,704	29.33 %
Total IPP	288,403	86.56 %
Co-Gen	1,150	0.35 %
Total Co-Gen	1,150	0.35 %
Total Generation	332,194	99.71 %
PLTG	-272	-0.08 %
HVDC	-698	-0.21 %
Interconnection	-970	-0.29 %
Net Energy	333,164	100.00 %

Maximum Demand Record

Date: 3/19/2019	18,402 MW
Date: 3/20/2019	390,048 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	21:00:00 Hour
Total Set On Bus	17,099 MW
TNB Generation	2,085 MW
IPP Generation	13,269 MW
Spinning Reserve	1,698 MW
Maximum Demand	15,432 MW
Net Energy	333,164 MWH
Load Factor	89.95 %

Fuel Cost

Total Cost:	63,716,884.17 RM
Cost per Unit	20.55 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	434
Hydro	384
Syncon	914
Thermal	235
Total	1,967

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	50
TJGS	211
Total TNB	261
CBPS	55
KLPP	72
NPRI	159
PGLA	108
PLPS	54
SGRI	71
SKSP	52
YPKA	28
Total IPP	599
Total Gas	860
Total Gas Required	860

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	14970	14495	13955	13525	13146	12841	12795	12554	11841	12470	13132	13531	13809	13796	14184	14531	14615	14434	13820	13833	15228	15432	15233	15021

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, March 27, 2019 11:03:33 AM

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

Daily MW Generation on Sunday

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	GT21	122	124	65	122	121	121	123	117	65	65	65	65	65	65	65	65	65	65	65	65	134	132	131	131	131	132	131	130	129	130	130	131	130	129	130	65	65	65	65	65	130	133	131	120	119	120	120	120		
YPKA	ST20	59	59	39	57	58	58	58	58	37	37	36	36	37	36	36	37	37	37	37	37	61	62	61	62	63	63	63	62	62	62	62	62	62	62	62	40	37	37	37	37	55	62	61	58	57	58	57	57		
Total CCGT-Gas		5512	5315	5369	5575	5614	5633	5587	5374	5221	5220	5152	5219	5154	5164	4911	4443	4487	4664	4730	4857	5308	5462	5518	5458	5484	5498	5384	5685	5631	5985	6039	6068	6068	6047	5980	5636	5509	5385	5487	6051	6506	6637	6664	6622	6553	6471	6530	6091		
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	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	13	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11			
CEND	HY01	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7			
CEND	HY02	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	10	10	10	10	10	10	10	9	10	10	0	5	0			
CEND	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
CEND	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	
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
HTRG	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	
KNRG	HY02	25	26	26	26	26	26	26	26	25	26	25	26	26	26	26	26	26	25	26	26	26	25	26	26	24	24	23	24	23	24	23	23	23	23	23	23	23	23	24	23	24	24	23	24	23	24				
KNYR	HY02	59	59	63	61	101	61	61	60	58	60	60	60	59	61	59	59	60	62	61	62	60	60	61	61	61	61	59	59	59	60	60	60	61	60	60	61	59	58	57	60	68	63	61	61	60	60	60	60		
KNYR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5	5	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	-1	-1	-1	-1	-1	-1	-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	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	23	22	22	23	23	22	23	23	23	22	22	23	23	23	23	23	23	23	23	22	23	23	23	23	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	20	21	20	20	21	21	21		
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	30	51	50	49	50	50	50	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	16	50	50	50	50	0	0	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																											

Daily MW Generation on Sunday

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																									
Interconnection		-33	-36	-106	-90	-73	-45	-63	-58	-68	-57	-101	-58	-57	-62	-53	-5	-10	-17	-54	-65	-35	-65	-29	-45	-49	-45	-54	-36	-62	-13	9	-51	-37	-33	-40	-13	-19	-20	-24	-40	-25	-28	-27	-14	52	-5	12	-99	
System Total		14970	14679	14495	14261	13955	13702	13525	13281	13146	12980	12841	12867	12795	12810	12554	12026	11841	12137	12470	12636	13132	13417	13531	13721	13809	13796	13796	14051	14184	14449	14531	14643	14615	14580	14434	13974	13820	13704	13833	14690	15228	15386	15432	15373	15233	15154	15021	14698	
SRev ST-Coal		239	219	325	424	413	379	263	292	279	340	334	334	333	344	332	342	592	510	340	328	334	333	337	333	275	281	284	286	271	341	275	164	171	168	163	171	176	172	162	89	211	105	116	105	209	198	209	204	
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
SRev CCGT-Gas		620	674	544	338	299	280	326	539	692	693	761	694	759	749	1002	1470	1426	1249	1183	1056	605	451	395	455	429	415	672	587	641	504	450	341	341	362	429	929	1056	1180	1218	730	275	287	336	378	447	529	470	474	
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
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
SRev Co-Gen		-4	0	-1	3	1	3	0	0	0	0	2	2	5	4	5	6	5	7	8	7	8	9	9	8	8	9	10	7	9	11	10	11	9	9	7	38	38	33	8	7	6	8	8	4	3	1	1	-3	
Syncon		1075	924	1075	1075	1075	1075	1075	1075	1075	1075	1075	1075	1075	1075	1075	1075	1075	1075	924	1075	924	1075	1075	924	924	924	924	924	924	924	838	838	838	989	989	989	989	989	989	989	989	989	989	989	989	989	989		
Hydro		273	402	268	269	229	270	269	270	273	271	272	270	271	269	271	271	271	268	398	269	400	272	271	401	405	405	405	432	431	432	430	407	409	406	409	278	277	280	282	280	343	395	385	404	272	272	278	278	271
S.Reserve Total		2203	2219	2211	2109	2017	2007	1933	2176	2319	2379	2444	2375	2443	2441	2685	3164	3369	3109	2853	2735	2272	2140	2087	2121	2041	2034	2322	2235	2277	2210	2066	1763	1765	1786	1866	2404	2539	2656	2657	2158	1725	1623	1702	1748	1920	1995	1947	1935	