

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,454 MW
Distillate	0 MW
Total TNB	2,454 MW
Total IPP	15,740 MW
Total Co-Gen	0 MW
Total System	21,162 MW

Generation Mix

Type	MWh	Percentage
Hydro	30,698	8.50 %
Gas	47,190	13.06 %
Total TNB	77,888	21.55 %
ST-Coal	162,461	44.96 %
ST-Gas	446	0.12 %
ST-Oil	1,036	0.29 %
LSS	3,066	0.85 %
Distillate	11,506	3.18 %
Gas	103,734	28.71 %
Total IPP	282,249	78.11 %
Co-Gen	1,370	0.38 %
Total Co-Gen	1,370	0.38 %
Total Generation	361,507	100.04 %
PLTG	-580	-0.16 %
HVDC	723	0.20 %
Interconnection	143	0.04 %
Net Energy	361,364	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	18,301 MW
TNB Generation	3,994 MW
IPP Generation	12,886 MW
Spinning Reserve	1,359 MW
Maximum Demand	16,952 MW
Net Energy	361,364 MWH
Load Factor	88.82 %

Fuel Cost

Total Cost:	90,169,521.00 RM
Cost per Unit	24.94 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	738
Hydro	464
Syncon	176
Thermal	189
Total	1,567

Time	Weather	Temperature
Afternoon	Cloudy	34
Morning	Cloudy	25

Gas Usage

Station	(mmscfd)
GLGR	49
TJGS	170
Total TNB	219
CBPS	47
EMPP	199
KLPP	31
NPRI	145
PCGP	72
PGLA	99
PLPS	62
SGB3	32
SPGP	104
PKLG	5
Total IPP	797
Total Gas	1,017

Total Gas Required 1,128

Alternate Fuel Usage

Station	(mmscfd)
EMPP	48
KLPP	23
PLPS	7
SGB3	23
PKLG	10
Total	111

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	14350	13805	13442	13108	12774	12566	12820	13060	13557	15208	15834	16396	16200	16017	16544	16916	16952	16548	15481	15541	16500	16336	15690	15338

Daily MW Generation on Wednesday

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 CCGT-Gas		5609	5605	5439	5372	5259	5106	4896	4800	4644	4499	4555	4482	4524	4810	4804	4820	5118	6038	6488	7357	7534	7627	7657	7170	7351	7181	6876	6808	7104	7394	7424	7437	7390	7392	7238	6889	6527	6515	6537	7076	7123	7116	7092	7050	6613	6551	6554	6409						
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	0					
BSIA	HY01	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22						
BSIA	HY02	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22					
BSIA	HY03	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22					
CEND	HY01	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	10	10	10	10	10	10	10	10	10	10			
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	10	10	10	10	10	10	10	10	10	10			
CEND	HY03	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	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9			
CEND	HY04	7	8	7	8	7	7	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	HY01	63	63	63	63	63	63	63	63	62	63	63	125	124	124	125	125	124	125	124	124	124	124	125	125	125	124	125	126	125	125	124	62	-1	-1	-1	124	124	124	125	124	63	63	62	62	62	62	62	62	62	62	62	62		
HTRG	HY02	63	63	63	63	63	63	63	63	63	63	123	123	123	124	124	124	124	123	124	123	123	123	124	123	124	124	124	123	123	123	123	34	0	0	0	0	123	123	123	123	63	63	63	63	63	63	63	63	63	63	63	63		
HTRG	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	7	7	7			
KNRG	HY01	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33			
KNRG	HY02	35	35	35	35	35	35	36	35	35	35	35	35	35	35	36	35	35	35	35	35	35	36	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35		
KNRG	HY03	35	35	35	35	34	34	35	35	35	35	35	35	35	35	35	35	34	35	34	35	35	35	35	35	35	35	35	35	35	35	34	34	35	35	34	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35		
KNYR	HY01	99	98	97	97	98	97	97	97	97	97	95	98	100	100	100	100	100	97	98	95	95	99	96	100	75	88	66	94	92	91	72	87	90	85	62	81	62	100	92	97	99	98	93	92	94	92	94	92	94	96	96	96		
KNYR	HY02	101	100	98	98	99	99	98	98	99	98	97	100	102	102	102	102	102	98	100	96	96	101	100	102	99	100	98	100	99	100	100	99	99	98	96	96	96	61	100	101	102	101	99	99	99	99	99	99	99	99	99	99	99	99
KNYR	HY03	91	68	65	63	96	79	88	72	77	64	60	78	97	78	75	97	63	97	61	75	65	99	101	98	98	96	99	98	0	0	0	99	98	96	96	96	61	100	101	101	101	99	99	99	99	99	99	99	99	99	99	99	99	99
KNYR	HY04	101	100	99	99	100	99	99	99	100	99	98	100	102	102	102	102	102	99	101	97	97	102	101	102	100	101	98	101	100	101	101	100	100	99	97	97	97	60	101	102	102	102	100	100	100	100	100	100	100	100	100	100	100	
LPJA	HY01	20	20	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	20	20	20	21	21	21	21	21	19	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20			
LPJA	HY02	20	20	20	19	19	19	18	18	18	18	18	18	18	18	18	18	19	19	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
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	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3			
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	22	-1	-1	-1	-1	-1	151	-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	-1	-1	-1	-1	
PGAU	HY03	0	0	0	0	0	0	19	2	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	21	21	21	21	20	21	21	21	21	21	21	20	21	21	0	0	0	79	79	0	0	0	0	0	0	0	0	0	0	0	
PGAU	HY04	21	21	21	21	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	147	21	21	21	21	21	21	21	21	21	21	21	21	21	21	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	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
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	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
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	17	17	17	17	17	17	17	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
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	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	
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	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	
TMGR	HY01	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84		
TMGR	HY02	88	88	88	88	88	89	88	88	88	88	86	88	88	88	88	88	88	88	87	88	89	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	86	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
TMGR	HY03	70	44	44	38	75																																																	

