

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,518 MW
Distillate	0 MW
Total TNB	2,518 MW
Total IPP	16,525 MW
Total Co-Gen	0 MW
Total System	21,866 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,884	5.39 %
Gas	35,108	10.01 %
Total TNB	53,992	15.40 %
ST-Coal	209,913	59.88 %
LSS	2,174	0.62 %
Gas	83,915	23.94 %
Total IPP	296,002	84.43 %
Co-Gen	197	0.06 %
Total Co-Gen	197	0.06 %
Total Generation	350,191	99.89 %
PLTG	303	0.09 %
HVDC	-696	-0.20 %
Interconnection	-393	-0.11 %
Net Energy	350,584	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	17,756 MW
TNB Generation	3,262 MW
IPP Generation	13,284 MW
Spinning Reserve	1,201 MW
Maximum Demand	16,643 MW
Net Energy	350,584 MWH
Load Factor	87.77 %

Fuel Cost

Total Cost:	42,352,139.05 RM
Cost per Unit	12.09 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	297
Hydro	577
Syncon	426
Thermal	156
Total	1,456

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	49
TJGS	201
Total TNB	250
CBPS	51
NPRI	156
PGLA	105
PLPS	88
SKSP	33
YPKA	48
Total IPP	481
Total Gas	731

Total Gas Required 731

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	13904	13361	12890	12480	12298	12138	12344	12681	13038	14739	15521	16070	15981	15856	16286	16633	16486	16075	15232	15514	15814	15437	14846	14453

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, January 5, 2021 10:21:37 AM Head
Grid System Operator

(Ir. Shanmugam Thoppalan)

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							
BSIA	HY02	11	12	12	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	23	23	12	12	12	12	14	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	22	22						
BSIA	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	24	23	12	12	12	12	12	24	24	24	23	23	24	23	23	23	23	23	23	23	23	23	23	23	23	23					
CEND	HY01	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	9	9	9	10	10	9	9	9	9	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	9	9					
CEND	HY02	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	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	0	0	0	0	10	9	9	9	9	9	9	9	9	9	9	9	10	10	9	10	9	9						
CEND	HY04	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						
HTRG	HY01	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	0	0	0	0	0	62	63	124	124	125	0	0	0	-1	63	125	125	125	125	124	125	-1	-1	61	125	124	62	62	63	0	0	0	0	0					
HTRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	62	121	124	123	0	0	0	50	63	123	124	123	124	124	123	123	125	125	125	124	124	124	124	0	0	0	0	0	0				
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	35	35	35	35	35	21	22	22	22	22	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35				
KNRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36	36	36	36	36	22	22	22	22	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36				
KNRG	HY03	23	24	24	23	24	23	24	24	24	24	24	24	24	24	24	25	25	25	35	35	34	34	35	34	35	34	34	23	23	23	24	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34				
KNYR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	59	100	100	100	58	-1	-1	-1	99	99	100	100	99	99	99	65	69	74	67	65	66	69	66	71	65	-1	94	101	101	101				
KNYR	HY02	57	59	58	57	60	56	60	61	61	60	60	60	62	62	60	61	73	67	69	69	61	99	67	60	60	71	61	75	65	99	62	61	69	61	60	61	66	65	60	66	62	72	66	65	62	62	54	61	61				
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	59	100	101	101	54	0	0	0	100	100	100	101	101	101	101	100	101	-1	-1	-1	101	101	55	0	0	0	0	0	93	99	99	99	99	
KNYR	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	101	101	101	59	60	-1	-1	101	101	101	101	101	101	101	62	65	80	71	61	61	68	61	-1	-1	-1	95	101	101	101	101			
LPIA	HY01	22	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21					
LPIA	HY02	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21				
MNOR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	3	3	3	3	3	3	3	3	4	4	5	5	5	5	5	5	1	1	0	0	0	0	0	0	0	0	0	0			
PGAU	HY01	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	21	21	-1	-1	-1	-1	-1	-1	21	21	21	21	21	21	21	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
PGAU	HY02	-1	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	21	21	21	21	21	21	21	21	21	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	20	20	21	21			
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	20	20	-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	21	21	21	26	22	22			
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	21	21	21	21	21	21	21	21	21	20	20	20	20	20	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	30	30	30	30	30	30	30	30	30	30	49	49	49	48	49	0	0	0	31	49	48	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	30	30	30	30	30	30	30	30	30	30	50	50	50	50	50	50	0	0	0	30	50	50	29	0	0	0	0	0	0	0	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	0	0	0	0	0	0	30	50	50	50	50	50	50	0	0	0	21	50	50	30	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	17	17	17	0	0	0	17	17	17	17	17	17	17	17	17	0	0	0	17	25	25	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	17	17	17	0	0	0	17	17	17	17	17	17	17	17	17	0	0	0	17	25	25	4	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	17	17	17	17	17	17	17	17	0	0	0	17	25	25	14	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	17	17	17	17	17	17	17	17	0	0	0	17	25	25	5	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	14	33	64	64	33	-1	33	33	34	64	64	64	64	64	64	-1	-1	-1	84	84	84	64	64	33	-1	-1	80	84	84			
TMGR	HY02	41	44	44	41	43	41	44	44	44	44	44	46	45	44	44	53	46	52	53	44	82	52	49	53	80	70	79	69	87	67	64	80	62	53	63	72	80	72	49	49	68	54	74	53	70	40	53	53	53				
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	62	32	32	32	32	32	32	62	62	62	62	62	62	32	32	32	32	82	82	62	62	32	0	0	78	82	82	82	82	
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	33	63	63	33	33	33	33	33	63	63	63	63	63	63	33	-1	-1	83	83	83	63	63	33	33	-1	79	83	83	83			
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	93	97	95	96	96	98	98	91	95	93	93	93	96	92	94	94	92	94	94	92	-1	-1	-1	-1	97	93	93	-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	97	98	98	99	184	186	187	185	187	187	186	186	186	187	185	-1	-1	-1	-1	-1	95	96	99	96	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UPIA	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4																																								

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	9	12	27	29	34	40	41	43	43	29	16	3	12	18	8	6	5	1	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0</