



Monthly Power Supply Position Report of North Eastern Region for FEB,2020

Power System Operation Corporation Limited

(A Government of India Enterprise)

North Eastern Regional Load Despatch Centre

Monthly Power Supply Position Report of North Eastern Region for FEB,2020

Date of Issue	Revision No
02-03-20	0

Monthly Power Supply Position of North Eastern Region for FEB'2020

Regional Energy Generation

Name of Constituents	Hydro		Coal / Oil / Solar		Gas Based (Open cycle)		Gas Based (Com.cycle)		Total	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net
A: State Sector										
ARUNACHAL PRADESH	2.93	2.901	0	0	0	0	0	0	2.93	2.90
ASSAM	6.91	6.84	0.50	0.50	37.89	37.51	31.04	30.43	76.35	75.28
MEGHALAYA	28.60	28.23	0.00	0.00	0.00	0.00	0.00	0.00	28.60	28.23
MIZORAM	2.49	2.47	0.00	0.00	0.00	0.00	0.00	0.00	2.49	2.47
NAGALAND	3.48	3.45	0.00	0.00	0.00	0.00	0.00	0.00	3.48	3.45
TRIPURA	2.32	2.29	0.49	0.49	51.02	50.51	0.00	0.00	53.83	53.29
Total (State Sector)									167.69	165.61
B: Central Sector										
NEEPCO										
AGBPP	0	0	0	0	0	0	154.838	150.58	154.838	150.58
AGTCCPP	0	0	0	0	0	0	76.713	74.334	76.713	74.334
DOYANG	6.5	6.422	0	0	0	0	0	0	6.5	6.422
KHANDONG	7.861	7.767	0	0	0	0	0	0	7.861	7.767
KOPILI	0	0	0	0	0	0	0	0	0	0
KOPILI-2	0	0	0	0	0	0	0	0	0	0
MONARCHAK(SOLAR)	0	0	0.493	0.488	0	0	0	0	0.493	0.488
MONARCHAK(THERMAL)	0	0	0	0	0	0	62.839	60.64	62.839	60.64
PARE	12.929	12.774	0	0	0	0	0	0	12.929	12.774
RANGANADI	31.934	31.615	0	0	0	0	0	0	31.934	31.615
TUIRIAL	6.994	6.91	0	0	0	0	0	0	6.994	6.91
NHPC										
LOKTAK	18.795	18.57	0	0	0	0	0	0	18.795	18.57
NTPC										
BGTPP	0	0	334.326	304.237	0	0	0	0	334.326	304.237
OTPCL										
PALATANA	0	0	0	0	0	0	157.858	152.648	157.858	152.648
Total (Central Sector)									872.08	826.985
Total NER	131.746	130.233	335.817	305.713	88.913	88.024	483.292	468.628	1039.77	1016.062

Inter Regional Exchange in MU :

	Import	Export
NER to ER	528.52	25.78
NER to NR	53.85	270.18
	Net_Import(MU)	
Net export by NER		295.96
Net import by NER		582.37

Estimation of Energy Requirement (MU)

Average Frequency (Hz)	49.999						
Name of Constituents	Generation	Energy drawl from grid		Energy Consumption	Frequency Correction #	Load Shedding	Actual Requirement
		Schedule	Drawal				
ARUNACHAL PRADESH	2.9	62.38	61.01	63.91	0.002	0.27	64.18
ASSAM	75.27	566.05	572.57	647.84	0.019	13.13	660.97
MANIPUR	0	85.14	76.13	76.13	0.002	0.51	76.64
MEGHALAYA	55.5	156.22	154.59	210.09	0.006	6.61	216.7
MIZORAM	9.38	46.22	42.29	51.67	0.002	0.3	51.97
NAGALAND	3.45	58.45	60.69	64.14	0.002	0.51	64.65
TRIPURA (including BANGLADESH)	113.92	48.9	45.29	159.21	0.005	0.01	159.22
Total (inluding Bangladesh)	260.42	1023.36	1012.57	1272.99	0.038	21.34	1294.33

Freq. Correction = Consumption * 0.03 * (50 - Frequency)

Monthly Power Supply Position of North Eastern Region for FEB'2020

Estimation of Peak Demand (MW)

Constituents	Maximum Demand Met (in MW)	Date & Time of Max Demand Met	Frequency at Max Demand Met Time (in Hz)	Frequency Correction #	Load Shedding at Max Demand Met Time (in MW)	Estimated Peak Demand (in MW) at 50 Hz
ARUNACHAL PRADESH	130.42	At 19:00 Hrs on 20.02.20	50.08	-0.313	27.88	157.99
ASSAM	1370.14	At 19:00 Hrs on 05.02.20	50.087	-3.699	10.5	1376.94
MANIPUR	216.44	At 17:49 Hrs on 05.02.20	50.032	-0.195	10	226.25
MEGHALAYA	369.90	At 18:00 Hrs on 08.02.20	50.129	-1.443	0	368.459
MIZORAM	132.48	At 17:45 Hrs on 03.02.20	49.952	0.199	0	132.68
NAGALAND	150.00	At 18:00 Hrs on 01.02.20	50.141	-0.63	15	164.37
TRIPURA (EXCLUDING BANGLADESH)	222.30	At 18:02 Hrs on 29.02.20	50.174	-1.134	0	221.17
TRIPURA (INCLUDING BANGLADESH)	341.70	At 18:02 Hrs on 29.02.20	50.174	-1.743	0	339.96
NER (EXCLUDING BANGLADESH)	2591.68	At 18:23 Hrs on 11.02.20	49.985	0.778	63.38	2655.839
NER (INCLUDING BANGLADESH)	2711.08	At 18:23 Hrs on 11.02.20	49.985	0.813	63.38	2775.269

Freq. Correction = Demand Met * 0.03 * (50 - Frequency)

Requirement Vs Availability in the Region

Constituents	Energy requirement (in MU) at 50 Hz				Peak Requirement (in MW) at 50 Hz			
	Availability & Load Shedding at prevailing frequency							
	Requirement	Availability	Shortfall	Shortfall (%)	Demand	Demand Met	Shortfall	Shortfall (%)
Arunachal Pradesh	64.18	63.91	0.27	0.42	158	130.4	27.88	17.61
Assam	660.97	647.84	13.13	1.99	1381	1370.1	10.50	0.76
Manipur	76.64	76.13	0.51	0.67	226	216.4	10.00	4.42
Meghalaya	216.7	210.09	6.61	3.05	370	369.9	0.00	0
Mizoram	51.97	51.67	0.3	0.58	132	132.5	0.00	0
Nagaland	64.65	64.14	0.51	0.79	165	150.0	15.00	9.09
Tripura (excluding Bangladesh)	98	97.99	0.01	0.01	222	222.3	0.00	0
Tripura (including Bangladesh)	158.54	158.53	0.01	0.01	347.1	341.7	0.00	0
NER (excluding Bangladesh)	1233.11	1211.77	21.34	1.73	2812	2591.7	63.38	31.88
NER (including Bangladesh)	1293.65	1272.31	21.34	1.65	2779.1	2711.1	63.38	31.88

Monthly Non Conventional and Conventional Generation of North Eastern Region

NON CONVENTIONAL

SL NO.	GENERATING STATION	INSTALLED CAPACITY (MW)		TYPE	GROSS GENERATION IN MU	NET GENERATION IN MU
ASSAM						
1	Myntreng	1.5*2	3	Hydro	1.072	1.061
2	Suryatap	5*1	5	Solar	0.505	0.499
MEGHALAYA						
1	Sonapani	1.5*1	1.5	Hydro	0.267	0.264
2	Uiam Stage II	10*2	20	Hydro	2.336	2.313
3	Umtru	2.80*4	11.2	Hydro	0.000	0.000
MIZORAM						
1	Serlui B	3*4	12	Hydro	2.494	2.469
NAGALAND						
1	Likimro	8*3	24	Hydro	3.485	3.450
TRIPURA						
1	Gumti	5*3	15	Hydro	2.315	2.292
NEEPCO						
1	Monarchak Solar	5*1	5	Solar	0.493	0.488
TOTAL					12.966	12.836

CONVENTIONAL

SL NO.	GENERATING STATION	INSTALLED CAPACITY (MW)		TYPE	GROSS GENERATION IN MU	NET GENERATION IN MU
ARUNACHAL PRADESH						
1	Dikshi	8*3	24	Hydro	2.93	2.901
ASSAM						
1	HHPCPL		0	Hydro	0.198	0.196
2	Karbi Langpi	50*2	100	Hydro	5.223	5.171
3	LRPP	10*7	70	Open Cycle Gas	37.894	37.515
4	LTPS	20*3 + 37.2*1	97.2	Gas	13.133	13.053
5	NTPS	21*2 + 11*1 + 24*1 + 22.5*1	99.5	Gas	17.911	17.374
MEGHALAYA						
1	Lakroh		0	Hydro	0.092	0.092
2	Myntdu Leshka	42*3	126	Hydro	2.480	2.455
3	New Umtru	20*2	40	Hydro	11.435	11.320
4	Uiam Stage I	9*4	36	Hydro	6.753	6.686
5	Uiam Stage III	30*2	60	Hydro	6.306	6.243
6	Uiam Stage IV	30*2	60	Hydro	5.908	5.849
7	Adbhunik	25*1	25	Coal	0.000	0.000
8	MPL	8*1+43.15*1	51.15	Coal	0.000	0.000
9	Maithan Alloys Ltd	15*1	15	Coal	0.000	0.000
10	Shyam Century	13.8*1	13.8	Coal	0.000	0.000
MIZORAM						
1	Bairabi	5.73*4+1*17.35	40.27	Oil	0	0

TRIPURA						
1	Baramura	5*2 + 7*1 + 21*2	59	Open Cycle Gas	14.53	14.385
2	Rokhia	8*6 + 21*3	111	Open Cycle Gas	36.489	36.124
NEEPCO						
1	DOYANG	25*3	75	Hydro	6.500	6.422
2	KHANDONG	25*2	50	Hydro	7.861	7.767
3	KOPILI	50*4	200	Hydro	0.000	0.000
4	KOPILI STG II	25*1	25	Hydro	0.000	0.000
5	PARE	55*2	110	Hydro	12.929	12.774
6	RANGANADI	135*3	405	Hydro	31.934	31.615
7	TURIAL	30*2	60	Hydro	6.994	6.910
8	AGBPP	33.5*6 + 30*3	291	Gas	154.838	150.580
9	AGTCCPP	21*4 + 25.5*2	135	Gas	76.713	74.334
10	MONARCHAK GAS	65.42*1 + 35.58*1	101	Gas	62.839	60.640
NHPC						
1	LOKTAK	35*3	105	Hydro	18.795	18.57
OTPCL						
1	PALATANA	232.39*2 + 130.91*2	726.6	Gas	157.858	152.648
NTPC						
1	BGTPP	250*3	750	Coal	334.33	304.24
TOTAL					1045.84	998.70

Inter-Country Power Exchange

BHUTAN

IMPORT

1	132KV-RANGIA-DEOTHANG	0
2	132KV-SALAKATI-GELEPHU	0
Total		0

EXPORT

3	132KV-RANGIA-DEOTHANG	6.14
4	132KV-SALAKATI-GELEPHU	7.15
Total		13.29
Net exchange with bhutan ('-' import / '+' export)		13.29

BANGLADESH

1	Total Drawal by Bangladesh from Surjamaninagar (India) in MU	60.54
2	Maximum Drawal by Bangladesh from Surjamaninagar (India) in MW	125.10

MYANMAR

1	Total Drawal by Myanmar from Manipur (India) in MU	0.659
2	Maximum Drawal by Myanmar from Manipur (India) in MW	1.990