



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

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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	3.705	3.705	0	0	0	0	0	0	3.705	3.705
ASSAM	14.944	14.794	0.515	0.51	42.843	42.415	40.283	39.753	98.585	97.472
MEGHALAYA	85.988	85.129	0	0	0	0	0	0	85.988	85.129
MIZORAM	7.612	7.524	0	0	0	0	0	0	7.612	7.524
NAGALAND	4.888	4.839	0	0	0	0	0	0	4.888	4.839
TRIPURA	0	0	0.553	0.547	49.206	48.714	44.673	43.109	94.432	92.37
Total (State Sector)									291.505	287.334
B: Central Sector										
NEEPCO										
AGBPP	0	0	0	0	0	0	140.978	137.101	140.978	137.101
AGTCCPP	0	0	0	0	0	0	77.76	75.349	77.76	75.349
DOYANG	3.663	3.619	0	0	0	0	0	0	3.663	3.619
KHANDONG	0	0	0	0	0	0	0	0	0	0
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	0.553	0.547	0	0	0	0	0.553	0.547
MONARCHAK(THERMAL)	0	0	0	0	0	0	44.673	43.109	44.673	43.109
PARE	41.643	41.144	0	0	0	0	0	0	41.643	41.144
RANGANADI	153.177	151.645	0	0	0	0	0	0	153.177	151.645
TUIRIAL	5.615	5.547	0	0	0	0	0	0	5.615	5.547
NHPC										
LOKTAK	8.34	8.24	0	0	0	0	0	0	8.34	8.24
NTPC										
BGTPP	0	0	213.716	194.482	0	0	0	0	213.716	194.482
OTPCL										
PALATANA	0	0	0	0	0	0	447.52	432.752	447.52	432.752
Total (Central Sector)									1086.797	1044.332
Total NER	320.255	316.934	214.784	195.539	92.049	91.129	751.214	728.064	1378.302	1331.666

Inter Regional Exchange in MU :

	Import	Export
NER to ER	125.05	117.27
NER to NR	131.13	204.02
		Net_Import(MU)
Net export by NER		321.29
Net import by NER		256.18

Estimation of Energy Requirement (MU)

Average Frequency (Hz)	50.008							
Name of Constituents	Generation	Energy drawl from grid		Energy Consumption	Frequency Correction #	Load Shedding	Actual Requirement	
		Schedule	Drawal					
ARUNACHAL PRADESH	3.67	46.13	50.28	53.95	-0.013	0.21	54.16	
ASSAM	97.46	581.81	584.86	682.32	-0.164	50.26	732.58	
MANIPUR	0	71.11	70	70	-0.017	0.27	70.27	
MEGHALAYA	85.13	64.03	58.8	143.93	-0.035	3.21	147.14	
MIZORAM	7.53	43.32	43.2	50.73	-0.012	0.24	50.97	
NAGALAND	4.84	61.66	58.38	63.22	-0.015	0.23	63.45	
TRIPURA (including BANGLADESH)	92.37	132.51	118.13	210.5	-0.051	0.69	211.19	
Total (including Bangladesh)	291	1000.57	983.65	1274.65	-0.307	55.11	1329.76	

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

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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	107.5	At 19:00 Hrs on 29.05.20	50.065	-0.226	0	107.27
ASSAM	1663	At 20:00 Hrs on 19.05.20	50.063	-2.993	57.4	1717.41
MANIPUR	188.7	At 18:45 Hrs on 21.05.20	49.936	0.34	19	208.04
MEGHALAYA	321.7	At 19:00 Hrs on 30.05.20	50.081	-0.772	0	320.93
MIZORAM	106.25	At 18:15 Hrs on 05.05.20	50.078	-0.255	0	105.99
NAGALAND	133	At 19:00 Hrs on 12.05.20	50.049	-0.2	2.9	135.7
TRIPURA (EXCLUDING BANGLADESH)	284.3	At 19:28 Hrs on 11.05.20	50.026	-0.256	0	284.04
TRIPURA (INCLUDING BANGLADESH)	461.5	At 19:28 Hrs on 11.05.20	50.026	-0.415	0	461.08
NER (EXCLUDING BANGLADESH)	2676	At 18:49 Hrs on 19.05.20	50.037	-3.211	79	2751.79
NER (INCLUDING BANGLADESH)	2820	At 19:47 Hrs on 18.05.20	50.031	-2.538	79	2896.46

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	54.16	53.95	0.21	0.39	108	108	0	0
Assam	732.58	682.32	50.26	6.86	1720	1663	57	3.34
Manipur	70.27	70	0.27	0.38	208	189	19	9.15
Meghalaya	147.14	143.93	3.21	2.18	322	322	0	0
Mizoram	50.97	50.73	0.24	0.47	106	106	0	0
Nagaland	63.45	63.22	0.23	0.36	136	133	3	2.13
Tripura (excluding Bangladesh)	121.88	121.19	0.69	0.33	284	284	0	0
Tripura (including Bangladesh)	210.72	210.03	0.69	0.33	462	462	0	0
NER (excluding Bangladesh)	1240.45	1185.34	55.11	4.44	2755	2676	79	2.87
NER (including Bangladesh)	1329.29	1274.18	55.11	4.15	2899	2820	79	2.73

Monthly Non Coventional and Coventional 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	1.593	1.577
2	Suryatap	5*1	5	Solar	0.515	0.51
MEGHALAYA						
1	Sonapani	1.5*1	1.5	Hydro	0.602	0.596
2	Umiam Stage II	10*2	20	Hydro	3.145	3.114
3	Umtru	2.80*4	11.2	Hydro	0	0
MIZORAM						
1	Serlui B	3*4	12	Hydro	1.997	1.977
NAGALAND						
1	Likimro	8*3	24	Hydro	4.888	4.839
TRIPURA						
1	Gumti	5*3	15	Hydro	0	0
NEEPCO						
1	Monarchak Solar	5*1	5	Solar	0.553	0.547
TOTAL					13.293	13.16

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	3.705	0.3705
ASSAM						
1	HHPCL	2*2,025	4.05	Hydro	0.186	0.184
2	Karbi Langpi	50*2	100	Hydro	13.165	13.033
3	LRPP	10*7	70	Open Cycle Gas	42.843	42.415
4	LTPS	20*3 + 37.2*1	97.2	Gas	28.447	28.272
5	NTPS	21*2 + 11*1 + 24*1 + 22.5*1	99.5	Gas	11.836	11.481
MEGHALAYA						
1	Lakroh	1.5*1	1.5	Hydro	0.475	0.47
2	Myntdu Leshka	42*3	126	Hydro	37.364	36.99
3	New Umtru	20*2	40	Hydro	15.2	15.048
4	Umiam Stage I	9*4	36	Hydro	5.913	5.854
5	Umiam Stage III	30*2	60	Hydro	11.249	11.137
6	Umiam Stage IV	30*2	60	Hydro	12.04	11.92
7	Adhunik	25*1	25	Coal	0	0
8	MPL	8*1+43.15*1	51.15	Coal	0	0
9	Maithan Alloys Ltd	15*1	15	Coal	0	0
10	Shyam Century	13.8*1	13.8	Coal	0	0

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	13.04	12.91
2	Rokhia	8*6 + 21*3	111	Open Cycle Gas	36.166	35.804
NEEPCO						
1	DOYANG	25*3	75	Hydro	3.663	3.619
2	KHANDONG	25*2	50	Hydro	0	0
3	KOPILI	50*4	200	Hydro	0	0
4	KOPILI STG II	25*1	25	Hydro	0	0
5	PARE	55*2	110	Hydro	41.643	41.144
6	RANGANADI	135*3	405	Hydro	153.177	151.645
7	TURIAL	30*2	60	Hydro	5.615	5.547
8	AGBPP	33.5*6 + 30*3	291	Gas	140.978	137.101
9	AGTCCPP	21*4 + 25.5*2	135	Gas	77.76	75.349
10	MONARCHAK GAS	65.42*1 + 35.58*1	101	Gas	44.673	43.109
NHPC						
1	LOKTAK	35*3	105	Hydro	8.34	8.24
OTPCL						
1	PALATANA	232.39*2 + 130.91*2	726.6	Gas	447.52	432.752
NTPC						
1	BGTPP	250*3	750	Coal	213.716	194.482
TOTAL					1365.009	1318.506

Inter-Country Power Exchange**BHUTAN****IMPORT**

1	132KV-RANGIA-DEOTHANG	24.88
2	132KV-SALAKATI-GELEPHU	10.83
Total		35.71

EXPORT

3	132KV-RANGIA-DEOTHANG	0
4	132KV-SALAKATI-GELEPHU	0.47
Total		0.47
Net exchange with bhutan ('-' import / '+' export)		-35.24

BANGLADESH

1	Total Drawal by Bangladesh from Surjamaninagar (India) in MU	88.840
2	Maximum Drawal by Bangladesh from Surjamaninagar (India) in MW	177.200

MYANMAR

1	Total Drawal by Myanmar from Manipur (India) in MU	0.772
2	Maximum Drawal by Myanmar from Manipur (India) in MW	2.840