



Monthly Power Supply Position Report of North Eastern Region for JUN,2022

Power System Operation Corporation Limited

(A Government of India Enterprise)

North Eastern Regional Load Despatch Centre

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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	7.663	7.586	0	0	0	0	0	0	7.663	7.586
ASSAM	64.638	63.992	12.463	12.338	43.88	43.441	109.269	107.213	230.25	226.984
MEGHALAYA	141.969	140.547	0	0	0	0	0	0	141.969	140.547
MIZORAM	7.128	7.043	0	0	0	0	0	0	7.128	7.043
NAGALAND	13.631	13.495	0	0	0	0	0	0	13.631	13.495
TRIPURA	0.99	0.98	0.37	0.366	41.197	40.785	64.792	62.524	107.35	104.655
Total (State Sector)									507.99	500.31
B: Central Sector										
NEEPCO										
AGBPP	0	0	0	0	0	0	136.972	133.205	136.972	133.205
AGTCCPP	0	0	0	0	0	0	76.452	74.082	76.452	74.082
DOYANG	25.281	24.977	0	0	0	0	0	0	25.281	24.977
KAMENG HEP	348.012	343.835	0	0	0	0	0	0	348.012	343.835
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
PARE	72.978	72.102	0	0	0	0	0	0	72.978	72.102
RANGANADI	192.515	190.59	0	0	0	0	0	0	192.515	190.59
NHPC										
LOKTAK	74.744	73.847	0	0	0	0	0	0	74.744	73.847
NTPC										
BGTPP	0	0	457.66	416.471	0	0	0	0	457.66	416.471
OTPCL										
PALATANA	0	0	0	0	0	0	234.266	226.535	234.266	226.535
Total (Central Sector)									1618.88	1555.644
Total NER	713.53	705.351	457.66	416.471	0	0	447.69	433.822	1618.88	1555.644

Inter Regional Exchange in MU :

	Import	Export
NER to ER	169.72	101.18
NER to NR	0	487.22
		Net_Import(MU)
Net export by NER		588.4
Net import by NER	169.72	

Estimation of Energy Requirement (MU)

Average Frequency (Hz)	49.985						
Name of Constituents	Generation	Energy drawal from grid		Energy Consumption	Frequency Correction #	Load Shedding	Actual Requirement
		Schedule	Drawal				
ARUNACHAL PRADESH	7.59	71.02	68.91	76.5	0.034	0	76.500
ASSAM	226.98	765.56	768.62	995.6	0.448	0.34	995.940
MANIPUR	0	75.86	76.81	76.81	0.035	0.14	76.950
MEGHALAYA	140.55	10.81	16.26	156.81	0.071	7.98	164.790
MIZORAM	7.043	48.91	45.16	52.2	0.023	0	52.203
NAGALAND	13.5	66.49	65.68	79.18	0.036	0	79.180
TRIPURA (including BANGLADESH)	104.66	113.25	114.3	218.96	0.099	0	218.960
HVDC_BNC	0	0.716	0.715	0.715	0.0003	0	0.715
Total (inluding Bangladesh)	500.323	1152.616	1156.455	1656.06	0.746	8.46	1,664.523

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	137.16	At 19:00 Hrs on 20.06.22	50.07	-0.288	21	157.87
ASSAM	2059.36	At 20:00 Hrs on 01.06.22	49.974	1.853	80.3	2141.51
MANIPUR	198	At 18:32 Hrs on 07.06.22	50.061	-0.356	3	200.64
MEGHALAYA	342.28	At 19:00 Hrs on 25.06.22	49.999	0	0	342.28
MIZORAM	118.03	At 17:45 Hrs on 22.06.22	49.989	0.035	0	118.07
NAGALAND	150.1	At 17:45 Hrs on 09.06.22	50.004	0	0	150.1
HVDC_BNC	1.327	At 14:15 Hrs on 23.06.22	50.04	-0.0016	0	1.327
TRIPURA (EXCLUDING BANGLADESH)	306.4	At 19:19 Hrs on 06.06.22	50.036	-0.368	0	306.03
TRIPURA (INCLUDING BANGLADESH)	463.51	At 20:08 Hrs on 20.06.22	49.983	0.278	0	463.79
NER (EXCLUDING BANGLADESH)	3193	At 19:12 Hrs on 02.06.22	50.045	-4.818	0	3188.18
NER (INCLUDING BANGLADESH)	3329	At 19:12 Hrs on 02.06.22	50.045	-5.013	0	3334.01

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	76.5	76.5	0	0	158	137	21	13.28
Assam	995.94	995.6	0.34	0.03	2140	2059	80	3.75
Manipur	76.95	76.81	0.14	0.18	201	198	3	1.49
Meghalaya	164.79	156.81	7.98	4.84	342	342	0	0
Mizoram	52.2	52.2	0	0	118	118	0	0
Nagaland	79.18	79.18	0	0	150	150	0	0
Tripura (excluding Bangladesh)	134.19	134.19	0	0	306	306	0	0
Tripura (including Bangladesh)	218.36	218.36	0	0	464	464	0	0
HVDC_BNC	0.716	0.715	0.001	0.205	1.327	1.327	0	0
NER (excluding Bangladesh)	1579.75	1571.29	8.46	0.54	3193	3193	0	0
NER (including Bangladesh)	1663.92	1655.46	8.46	0.51	3329	3329	0	0

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
ARUNACHAL PRADESH						
1	DIKSHI	3*8	24	Hydro	7.663	7.586
ASSAM						
1	Champavati / HHPCPL	2*2	4	Hydro	0.021	0.021
2	Myntreng	2*1.5	3	Hydro	3.929	3.89
3	Azure Solar	1*25	25	Solar	2.872	2.843
4	Azure Solar_Boko	1*25	25	Solar	2.744	2.717
5	Azure Solar_Nagaon	1*15	15	Solar	1.696	1.679
6	Azure Solar_Pailapool	1*25	25	Solar	0	0
7	Maheshwari Mining Solar	1*10	10	Solar	0.172	0.17
8	Suryatap	1*5	5	Solar	0.253	0.25
9	Solar park Amguri	1*25	25	Solar	4.726	4.678
MEGHALAYA						
1	Sonapani	1*1.5	0	Hydro	0.717	0.709
2	Umiam Stage II	2*10	20	Hydro	11.228	11.116
3	Umtru	4*2.8	11.2	Hydro	0	0
MIZORAM						
1	Sertui B	4*3	12	Hydro	0	0
NAGALAND						
1	Likimro	3*8	24	Hydro	13.631	13.495
TRIPURA						
1	Gumti	3*5	15	Hydro	0.99	0.98
NEEPCO						
1	Monarchak Solar	1*5	5	Solar	0.37	0.366
TOTAL					51.012	50.5

CONVENTIONAL

SL NO.	GENERATING STATION	INSTALLED CAPACITY (MW)		TYPE	GROSS GENERATION IN MU	NET GENERATION IN MU
ASSAM						
1	Karbi Langpi	2*50	0	Hydro	60.688	60.081
2	NRPP	63*1 + 37*1	100	Combined Cycle Gas	43.975	42.656
3	LRPP	7*10	0	Open Cycle Gas	43.88	43.441
4	LTPS	3*20+1*37.2	0	Gas	51.216	50.903
5	NTPS	2*21+1*11+1*24+1*22.5	0	Gas	14.077	13.655
MEGHALAYA						

1	Lakroh	1*1.5	1.5	Hydro	0	0
2	Myntdu Leshka	3*42	126	Hydro	56.398	55.834
3	New Umtru	2*20	40	Hydro	19.993	19.793
4	Umiam Stage I	4*9	36	Hydro	21.693	21.476
5	Umiam Stage III	2*30	60	Hydro	11.614	11.498
6	Umiam Stage IV	2*30	60	Hydro	20.324	20.121
7	Adhunik	1*25	25	Coal	0	0
8	MPL	1*8+1*43.15	51.15	Coal	0	0
9	Maitban Alloys Ltd	1*15	15	Coal	0	0
10	Shyam Century	1*13.8	13.8	Coal	0	0
MIZORAM						
1	Bairabi	4*5.73+1*17.35	40.27	Oil	0	0
2	TURIAL	2*30	60	Hydro	7.128	7.043
TRIPURA						
1	Baramura	2*21	42	Open Cycle Gas	27.371	27.097
2	Rokhia	3*21	63	Open Cycle Gas	13.826	13.688
3	MONARCHAK GAS	1*65.42+1*35.58	101	Gas	64.792	62.524
NEEPCO						
1	DOYANG	3*25	0	Hydro	25.281	24.977
2	KAMENG	2*150	600	Hydro	348.012	343.835
3	KHANDONG	2*25	0	Hydro	0	0
4	KOPILI	4*50	0	Hydro	0	0
5	KOPILI STG II	1*25	0	Hydro	0	0
6	PARE	2*55	0	Hydro	72.978	72.102
7	RANGANADI	3*135	0	Hydro	192.515	190.59
8	AGBPP	6*33.5+3*30	0	Gas	136.972	133.205
9	AGTCCPP	4*21+2*25.5	0	Gas	76.452	74.082
NHPC						
1	LOKTAK	3*35	0	Hydro	74.744	73.847
OTPC						
1	PALATANA	2*232.2+2*131.1	726.6	Gas	234.266	226.535
NTPC						
1	BGTPP	3*250	0	Coal	457.66	416.471
TOTAL					2075.855	2005.454

Inter-Country Power Exchange

BHUTAN

IMPORT

1	132KV-RANGIA-DEOTHANG	26.66
2	132KV-SALAKATI-GELEPHU	8.09
Total		34.75

EXPORT

3	132KV-RANGIA-DEOTHANG	0
4	132KV-SALAKATI-GELEPHU	0.01
Total		0.01
Net exchange with bhutan ('-' import / '+' export)		-34.74

BANGLADESH

1	Total Drawal by Bangladesh from Surjamaninagar (India) in MU	84.170
2	Maximum Drawal by Bangladesh from Surjamaninagar (India) in MW	179.380

MYANMAR

1	Total Drawal by Myanmar from Manipur (India) in MU	0.862
2	Maximum Drawal by Myanmar from Manipur (India) in MW	2.390