



भारत सरकार Government of India
विद्युत मंत्रालय Ministry of Power
उत्तर पूर्वी क्षेत्रीय विद्युत समिति
North Eastern Regional Power Committee
एन ई आर पी सी कॉम्प्लेक्स, डोंग पारमाओ, लापालाङ, शिल्लोंग-७९३००६, मेघालय
NERPC Complex, Dong Parmaw, Lapalang, Shillong - 793006, Meghalaya

SPEED POST/FAX
Ph : 0364-2534077
Fax: 0364-2534040
email: nerpc@ymail.com
website: www.nerpc.nic.in

सं/No. NERPC/MPR/2017/

दिनांक/Date 31st July 2018

सेवा में,
To

संलग्नक सुचि के अनुसार
As per enclosed list.

विषय: उ.पू.क्षे.वि.स. की अक्तुबर 2017 से मर्च 2018 तक की मासिक प्रगति रिपोर्ट
Subject: Monthly Progress Report of NERPC for the month of **October 2017 to March 2018**.

महोदय,
Sir,

उत्तर पूर्वी क्षेत्रीय विद्युत समिति की अक्तुबर 2017 से मर्च 2018 तक की मासिक प्रगति रिपोर्ट आपके अवलोकनार्थ हेतु हमारा वेबसाइट www.nerpc.nic.in में अपलोड की गई है ।

The Monthly Progress Report of the North Eastern Regional Power Committee for the month of October 2017 to March 2018 is uploaded in our office website www.nerpc.nic.in for your perusal.

संलग्न : यथोपरि

Encl: as above

भवदीय / Yours faithfully,

(एल. बी. मुआनथंग/ L. B. Muanthang)
अधीक्षण अभियंता / Superintending Engineer

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Brief highlights of North Eastern Regional Power System for the month of October 2017

- The maximum unrestricted demand during the month of October 2017 was 2596 MW, which was 2629 MW in the month of September 2017. The peak demand met in NER during the period under review was 2499 MW, which was 2520 MW in the previous month.
- The energy requirement during the month of October 2017 was 1486.85 MU, which was 1526.14 MU in the month of September 2017. The energy availability in NER during the period under review was 1450.71 MU, which was 1475.09 MU in the previous month.
- The maximum, minimum & average system frequencies were 50.20 (10.10.17), 49.65 (13.10.17) & 49.97 Hz respectively. The maximum, minimum & average FVI were 0.093, 0.025 & 0.049 respectively. The average FVI was more than its previous month's figure of 0.045. (Refer Annex-II).
- Maximum export of power from NER to ER was 270 MW (on 22.10.17 at 00:00Hrs.) and that from ER to NER was 1188 MW (on 19.10.17 at 00:00 Hrs). The same Inter-Regional Exchanges of NER with NR and vice versa were 1007 MW (on 01.10.17 at 01:00Hrs.) and 0 MW respectively. Total net energy import during the month was -136.14 MU (346.86 MU from ER and -483 MU from NR).

Salient Features of North Eastern Regional Grid for October 2017

1	New Unit/Transmission Line/Transformer commissioned during this month		
2	Number of major grid disturbance during this month		
		Oct-17	Oct-16
3	Installed Capacity of the Region (in MW) *		
	(i) Grid	3473.00	3496.00
	(ii) Isolated	124.00	124.00
	Total (As on 31.10.2017)	3597.00	3620.00
4	Energy Generation in MU (Gross):		
	Thermal/Gas	898.97	917.01
	Hydel	674.04	506.49
	Solar	0.60	0.60
	Total	1573.43	1424.10
5	Demand in MW:		
	Registered Peak Demand	2596	2466
	Peak Demand Met	2499	2439
	Shortage (%age)	3.9	1.1
6	Regional Energy (Gross) in MU:		
	Energy Requirement	1486.85	1411
	Energy Availability	1450.71	1354
	Surplus (+)/Deficit(-) (%age)	-2.5	-4.2
7	Inter Regional Energy Exchange in MU:		
	NER -----> ER	9.44	29.29
	ER -----> NER	356.3	401.1
	NER -----> NR	483	396
	NR -----> NER	0	10
	Net Import	-136.14	-14.19
8	Frequency Profile:		
	Average Frequency (Hz)	49.97	49.98
	Average Frequency Variation Index	0.049	-

*The installed capacity of NER as on 01.10.2016 as furnished by the constituents is : Grid = 3362.3MW and isolated is 109.51 MW. Total NER= 3471.81MW

Monthly Power Supply Position

1. Energy Generation In The Region For the Month of October 2017

All figures in MU

Constituents	Hydro		Coal/Oil fired		Gas Based (OC/CC)		Solar		Total (Gen)	Total (Gen)
	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net
	A	B	C	D	E	F	G	H	I	J
State Sector :										
Assam	69.80				94.60				164.40	
Meghalaya	130.55								130.55	
Mizoram	2.55								2.55	
Tripura	3.30				45.05				48.35	
Nagaland	14.44								14.44	
Total (S. Sector)	220.64				139.65		0		360.29	
Central Sector :										
NEEPCO:										
Khd+Kop+Kop-II	184.2								184.2	
Kathalguri (AGBPP)					144.0				144.0	
RC Nagar					59.4				59.4	
Doyang	38.2								38.2	
Ranganadi	153.2								153.2	
Monarchak					53.74		0.6		54.34	
NHPC:										
Loktak	77.8								77.8	
OTPC:										
Pallatana Gas PP					374.5				374.5	
NTPC:										
BgTPP			127.5						127.5	
Total (C. Sector)	453.4		127.5		631.64		0.6		1213.14	
Total NER	674.04		127.5		771.29		0.6		1573.43	

2. Requirement Vs Availability In The Region

STATES	ENERGY requirement (MU) at 50 Hz				POWER requirement (MW) at 50 Hz			
	<i>Availability & L/S at prevailing frequency</i>				<i>Availability & L/S at prevailing frequency</i>			
	Requirement	Availability	Shortfall	% Shortfall	Requirement	Availability	Shortfall	% Shortfall
Ar. Pradesh	70.79	69.46	1.33	1.91	145.47	139	6.47	4.65
Assam	856.55	827.36	29.19	3.53	1822.34	1745	77.34	4.43
Manipur	71.16	69.71	1.45	2.08	173.87	170	3.87	2.28
Meghalaya	120.69	120.65	0.04	0.03	300	300	0	0.00
Mizoram	38.97	37.84	1.13	2.99	87.96	85.60	2.36	2.76
Nagaland	67.51	66.31	1.2	1.81	136.68	134.86	1.82	1.35
Tripura	261.18	259.37	1.81	0.70	338.87	327.00	11.87	3.63
REGION	1486.85	1450.71	36.14	2.49	2596	2499	97	3.88

3. Estimation Of Peak Demand (In MW)

Constituents	Peak Demand Met	Date	Freq (Hz)	Estimated Peak Demand at 50 Hz
Arunachal Pradesh	139	22.10.17	49.97	145
Assam	1745	27.10.17	49.92	1822
Manipur	170	12.10.17	49.96	174
Meghalaya	300	05.10.17	50.01	300
Mizoram	86	12.10.17	50.07	88
Nagaland	135	16.10.17	50.04	137
Tripura*	291	26.10.17	49.86	303
REGION	2499	26.10.17	50.07	2596

4. Estimation of Energy Requirement (In MU)

Constituents	Generation	Energy Drawal from Grid		Energy Availability	Actual Requirement
		Schedule	Drawal		
Arunachal Pradesh	0	75.17	69.46	69.46	70.79
Assam	164.40	650.31	667.68	827.36	856.55
Manipur	0	74.44	69.71	69.71	71.16
Meghalaya	130.55	-8.65	-9.81	120.65	120.69
Mizoram	2.55	39.14	35.32	37.84	38.97
Nagaland	14.44	54.47	51.89	66.31	67.51
Tripura	48.35	108.13	107.54	259.37	261.18
REGION	360.29	993.01	991.79	1450.71	1486.85

*Tripura(excluding Bangladesh)

Station-Wise Energy Generated (MU) and Peak Generation (MW)

S. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Oct-17	Oct-16
(i) STATE SECTOR : HYDRO					
ASSAM : HYDRO					
1	LANGPI U-1	50	51	35.04	28.90
2	LANGPI U-2	50	51	34.76	27.81
TOTAL		100	102	69.80	56.71
MEGHALAYA : HYDRO					
3	UMIAM STAGE - 1 U-1	9	9	3.96	1.60
4	UMIAM STAGE - 1 U-2	9	9	4.08	1.77
5	UMIAM STAGE - 1 U-3	9	9	4.02	1.51
6	UMIAM STAGE - 1 U-4	9	9	3.89	2.00
7	UMIAM STAGE - 2 U-1	10	10	3.82	2.98
8	UMIAM STAGE - 2 U-2	10	10	4.05	0.61
9	UMIAM STAGE - 3 U-1	30	0	0	1.24
10	UMIAM STAGE - 3 U-2	30	29	14.98	15.93
11	UMIAM STAGE - 4 U-1	30	30	14.64	4.77
12	UMIAM STAGE - 4 U-2	30	30	15.62	14.16
13	UMTRU U-1	3	0	0	0
14	UMTRU U-2	3	0	0	0
15	UMTRU U-3	3	0	0	0
16	UMTRU U-4	3	0	0	0
17	MYNTDU-LESHKA U-1	42	42	18.0	10.80
18	MYNTDU-LESHKA U-2	42	42	20.20	7.28
19	MYNTDU-LESHKA U-3	42	42	22.52	22.68
20	SONAPANI	2	1	0.80	0.76
TOTAL		316	272	130.55	88.10
NAGALAND : HYDRO					
21	LIKIMRO - 1	8	8	4.62	4.45
22	LIKIMRO - 2	8	8	4.66	4.37
23	LIKIMRO - 3	8	8	5.16	4.00
TOTAL		24	24	14.44	12.82
MIZORAM : HYDRO					
24	SERLUI B U-1	4	4	1.5	0
25	SERLUI B U-2	4	4	0	0
26	SERLUI B U-3	4	0	1.05	0
TOTAL		12	8	2.55	0
TRIPURA : HYDRO					
27	GUMTI - 1	5	0	0	0
28	GUMTI - 2	5	5	2.63	2.93

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29	GUMTI - 3	5	5	0.67	1.53
TOTAL		15	10	3.30	4.46
TOTAL STATE (HYDRO) :		467	416	220.64	162.09
Sr. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Oct-17	Oct-16
(i) STATE SECTOR : THERMAL/GAS					
MIZORAM : THERMAL					
1	BAIRABI U-1	6	0	0	0
2	BAIRABI U-2	6	0	0	0
3	BAIRABI U-3	6	0	0	0
4	BAIRABI U-4	6	0	0	0
TOTAL		24	0	0	0
TRIPURA : THERMAL					
5	BARAMURA - 1	5			
6	BARAMURA - 2	5			
7	BARAMURA - 3	6.5			
8	BARAMURA - 4	21	22	9.13	15.16
9	BARAMURA - 5	21	21	6.02	0
10	ROKHIA - 1	8			
11	ROKHIA - 2	8			
12	ROKHIA - 3	8	0	0	0
13	ROKHIA - 4	8	0	0	0
14	ROKHIA - 5	8	0	0	0
15	ROKHIA - 6	8	0	0	0
16	ROKHIA - 7	21	21	6.40	13.44
17	ROKHIA - 8	21	22	11.30	11.98
18	ROKHIA - 9	21	21	12.20	12.40
TOTAL		169.5	107	45.05	52.97
MEGHALAYA PRIVATE : THERMAL(COAL)					
19	Maithon Alloy Ltd.	15	0	0	0
19	Shyam Century	14	0	0	0
20	Adhunik Cement	25	0	0	0
TOTAL		54	0	0	0
ASSAM : THERMAL					
21	LTPS - 1	15	0	0	0
22	LTPS - 2	15	15	9.35	9.51
23	LTPS - 3	15	17	6.80	0
24	LTPS - 4	15	0	0	9.62
25	LTPS - 5	20	20	15.28	12.48
26	LTPS - 6	20	21	14.40	13.31
27	LTPS - 7	20	30	14.02	13.50
28	LTPS - 8	37	0	0	13.59
29	NTPS - 1	20	0	0	10.25
30	NTPS - 2	21	20	10.41	6.93
31	NTPS - 3	21	20	11.67	4.88
32	NTPS - 4	11	10	4.23	0
33	NTPS - 5	24	10	4.23	5.67

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34	NTPS - 6	22	13	4.22	6.11
35	DLF	25	0	0	0
TOTAL		301	176	94.60	105.84
TOTAL STATE (THERMAL/GAS) :		561.5	283	139.65	158.81
TOTAL STATE GEN (HY+TH/GAS)		1028.5	699	360.29	320.90

S. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Oct-17	Oct-16
(ii) CENTRAL SECTOR : HYDRO					
1	KHANDONG - 1	25	27	17.9	6.3
2	KHANDONG - 2	25	27	16.8	5.4
3	KOPILI Stg - II	25	27	8.5	10.3
4	KOPILI - 1	50	50	31.3	22.4
5	KOPILI - 2	50	53	36.9	30.6
6	KOPILI - 3	50	52	36.6	21.0
7	KOPILI - 4	50	51	36.2	22.6
8	DOYANG - 1	25	25	15.1	8.8
9	DOYANG - 2	25	25	9.5	9.0
10	DOYANG - 3	25	26	13.6	8.9
11	LOKTAK - 1	35	36	26.0	25.5
12	LOKTAK - 2	35	37	26.0	25.1
13	LOKTAK - 3	35	37	25.8	25.2
14	RANGANADI - 1	135	143	27.4	42.8
15	RANGANADI - 2	135	143	64.6	42.2
16	RANGANADI - 3	135	143	61.2	38.3
TOTAL CS HYDRO :		860	872	453.4	344.4
(ii) CENTRAL SECTOR : THERMAL/GAS					
1	KATHALGURI - 1	34	34	21.1	17.0
2	KATHALGURI - 2	34	28	18.5	21.8
3	KATHALGURI - 3	34	30	18.4	18.1
4	KATHALGURI - 4	34	29	9.4	18.1
5	KATHALGURI - 5	34	27	21.4	15.2
6	KATHALGURI - 6	34	27	14.2	12.5
7	KATHALGURI - 7	30	30	16.5	16.3
8	KATHALGURI - 8	30	24	10.0	15.6
9	KATHALGURI - 9	30	23	14.5	11.8
10	R.C. NAGAR - 1	21	22	12.9	13.9
11	R.C. NAGAR - 2	21	21	5.9	14.0
12	R.C. NAGAR - 3	21	21	12.9	14.1
13	R.C. NAGAR - 4	21	22	7.4	14.5
14	R.C. NAGAR - 5	23	23	9.1	16.4
15	R.C. NAGAR - 6	23	24	11.2	16.0
16	MONARCHAK SOLAR PV	5	5	0.6	0.6
17	MONARCHAK - GTG 1	65.5	68	38.2	0
18	MONARCHAK - STG 1	35.5	36	15.54	0

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19	PALLATANA - GTG 1	232	233	107.6	103.2
20	PALLATANA - STG 1	131	132	72.5	65.1
21	PALLATANA - GTG 2	232	232	117.5	140.3
22	PALLATANA - STG 2	131	131	76.9	82.8
23	BgTPP - 1	250	255	127.5	132
24	BgTPP - 2				
25	BgTPP - 3				
TOTAL CS (THERMAL/GAS) :		1505	1436	759.74	759.3
TOTAL CS GEN (HY+TH/GAS)		2365	2308	1213.14	1103.7
TOTAL NER GEN (HY+TH/GAS)		3393.5	3007	1573.43	1424.60

Plant Load Factor (PLF)

PLANT LOAD FACTOR OF THE THERMAL/GAS STATIONS IN N.E.R.					
S. No.	Power Station	State/Constituent	Installed Capacity (MW)	Generation (in MU)	Stationwise PLF(%)
1	LTPS*	AEGCL	157.00	59.85	56.68
2	NTPS*	AEGCL	119.00	34.75	38.08
3	Baramura	Tripura	42.00	15.15	49.04
4	Rokhia	Tripura	95.00	29.90	63.79
5	AGBPP	NEEPCO	291.00	144.0	60.82
6	AGTPP	NEEPCO	84.00	59.4	57.83
7	AGTPP-2	NEEPCO	46.00		
8	Monarchak	NEEPCO	102.00	53.74	71.51
9	Pallatana	OTPC	727.00	374.5	67.92
10	BgTPP	NTPC	250.00	127.5	75.52

*LTPS -- Lakwa Thermal Power Station; *NTPS -- Namrup Thermal Power Station

Voltage Profile

1. Maximum and Minimum Voltage (KV) Of Important Substations

S. No.	NAME of SUB-STATION	MAXIMUM (kV)	MINIMUM (kV)
1	MISA 400 kV	424	400
2	BALIPARA 400 kV	411	408
3	BONGAIGAON 400 kV	416	393
4	RANGANADI 400 kV	423	396
5	PALLATANA 400 kV	422	413
6	SILCHAR 400 kV	420	399
7	BISHWANATH CHARIALI 400 kV	422	396
8	AZARA 400 kV	413	402
9	BgTPP 400 kV	424	402
10	MISA 220 kV	226	214
11	SALAKATI 220 kV	244	214
12	AGBPP 220 kV	229	224
13	MOKOKCHUNG 220 kV	238	224
14	AIZAWL 132 kV	136	122
15	IMPHAL 132 kV	137	128
16	Byrnihat 400kV	412	399
17	Kahilipara 132kV	141	126
18	Nirjuli 132kV	136	123

2. Voltage Range In KV as Percentage Of Time For The Block

SUB-STATION	kV < 360	360 < kV < 380	380 < kV < 420	kV > 420
MISA	0.01	0	98.30	1.69
BALIPARA	0	0	100.00	0
BONGAIGAON	0.93	0	99.07	0
PALATANA	0	0	94.60	5.40
SILCHAR	0	0	100.00	0
Azara	0.01	0	99.99	0
Biswanath Charali	0.01	0	99.99	0
BgTPP	0	0	98.25	1.75
Byrnihat	100.00	0	0	0

Inter-Regional Energy Exchange, Major Grid Disturbance and Meetings held by NERPC

1. Inter-Regional Energy Exchange

All Fig. in MU

N E R to E R	9.44
E R to N E R	356.3
NET IMPORT FORM E R	346.86
N E R to N R	483
N R to N E R	0
NET IMPORT FROM N R	-483
NET IMPORT	-136.14

2. Major Grid Disturbances:

None.

3. Meetings Held by NERPC:

Sr. No.	Meeting	Date	Venue
1.	18 th TCC Meeting	10.10.2017	Shillong
2.	18 th NERPC Meeting	11.10.2017	Shillong
3.	137 th OCC Meeting	27.10.2017	Guwahati
4.	32 nd Metering Meeting	27.10.2017	Guwahati

Status of Progress

1. Generating Projects in NER

Progress of Thermal Power Generation Projects in NER					
Central Sector					
Sr. No.	Plant	Units	Capacity in MW	Commissioning Schedule	Remarks
1		3rd		Jul-17	<ul style="list-style-type: none"> Boiler Drum Lifting Feb'13 & Boiler Hydro test Mar'14 Next Milestone : Boiler Light Up Nov'16

Progress of Hydro Power Generation Projects in NER					
Central Sector					
Sr. No.	Plant	Units	Capacity in MW	Commissioning Schedule	Remarks
1	Subhansiri Lower (Ar. Pradesh/NHPC)	8	8x250	Syn. Comm: 2016-18	1. Signing of MoU with State Government of Assam 2. Law & Order problem 3. Issue of Downstream Impact Assessment & demand for stoppage of works by anti-dam activists. Since 16.12.2011 work.
2	Kameng (Ar. P/NEEPCO)	4	4x150	Jan-18	Work in Progress
3	Pare (Ar. P/NEEPCO)	2	2x55	Dec-17	Work in Progress
4	Tuirial (Ar. P/NEEPCO)	2	2x30	Sep-17	Work in Progress
5	Demwe Lower (Ar. P)	6	5x342; 1x40	2016-17	
State Sector					
1	New Umtru MeGPCL	2	2x20	2014-15	Slow progress of civil works.
2	Ganol SHP (MePGCL)	3	3x7.5	Oct-15	LOI issued on 22nd Dec,2012. Work Order is being issued.
3	Lakroh MHP (MePGCL)	1	1.5		Delayed due to rain.

2. Transmission Lines In NER

Progress of Transmission Lines in NER					
POWERGRID					
Sr. No.	Name of Lines	Total length in Km	Target Date		Remarks
			Scheduled	Revised	
1	400 kV Kameng-Balipara D/C	144	Aug-13	Dec-17	ATS slowed down to the extent possible to match with generation of Kameng.
2	400 kV Lower Subansiri-Biswanath Chariyali D/C I	335	Aug-13	Mar-18	Completion matching with Gen.(Sch. uncertain).Works Standstill on account of local disturbance/agitation against big dam. Generation schedule uncertain.
3	400 kV Lower Subansiri-Biswanath Chariyali D/C II	348	Aug-13	Mar-18	Completion matching with Gen.(Sch. uncertain).Works Standstill on account of local disturbance/agitation against big dam. Generation schedule uncertain.
4	400 kV Silchar-Melriat(New) D/C (Charged at 132 kV)	248	Dec-12	Feb-18	Major portion of line in forest. severe ROW in vicinity of Aizawl town due to stiff resistance from influential local owner. Package re-awarded in Jun'16.
5	400 kV D/C Jigmeling - Alipurduar TL	-	Jan-18	Mar-19	Work in Progress
6	132 kV Aizawl (PG) - Zemabawk at Melriat (PG)	30	Dec-12	Feb-18	Package re-awarded in Jun'16. ROW problem. Work under progress.
7	LILO of 132 kV Zemabawk - W.Phaileng at Sihmui	5		Dec-13	
8	132KV D/C Interconnecting Silchar-Melriat T/L using 220 KV Towers	-	Mar-17	June-17	
9	132 kV D/C Silchar-Hailakandi TL	-	Dec-12	Nov-17	
10	132 kV Tezu-Namsai S/C	96	Dec-12	Feb-18	Progress affected due to severe ROW Problem.
TSECL					
11	132 kV Monarchak-Surajmani Nagar D/C	50	Jun-14	Mar-17	Work in Progress

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12	132 kV Surjyamani Nagar-Badarghat D/C	6		Aug-16	Fund proposed in World Bank.
13	132 kV Surjyamani Nagar(TSECL)-Rokhia DC	32.32	Nov-14	Mar-14	3.598 km line in forest land for which TSECL will supply for forest clearance. LOA issued.
14	132 kV Gamai Tilla - Dhalabil	31		Sep-13	ROW problems affected the work
15	132 kV P K Bari - Kanchanpur	47		Mar-15	All works completed in non forest land. Stage I clearance received and compliance for conditions completed.
MePTCL					
16	132 kV Rongkhon-Ampati D/C	1		Dec-17	
MeECL					
17	LILO of 132 kV Mawlai-Cherrapunjee at Mawngap	10		Mar-18	Work held up due to ROW problem. The PHED,GOMe has complained and filed and FIR against Loc No. 3 to 8. Overall status is 90% completed.
18	LILO of 132 kV NEIGRIHMS - Khliehriat at Lad Nongkrem	6		Nov-17	Delay in supply of materials for line by the vendor.
19	LILO of 132 kV Rongkhon - Ampati at Praharinagar	20		Sep-18	Survey works for 132 kV LILO is completed. LOA for the LILO is yet to be awarded.
Mizoram					
20	132 kV Tural-Aizawl	12		Mar-14	
AEGCL					
21	BTPS - Rangia D/C line	326.374	Mar-13	June-17	1. Overall 89%completed.A. All normal foundation completed. B. 5 nos. of Pile foundation completed.
22	LILO of one Ckt. of Samaguri - Sarusajai D/C line at Sonapur sub-station	26.624	Dec-13	March-18	Water logging & harvesting are reasons to be attributed for delaying.
23	132 kV DC Sonapur-Jagiroad Tr. Line.	51.75	Nov-13	March-18	Compensation/ROW Issue.
24	132 kV DC Sonapur-Chandrapur Tr. Line	28.438	Nov-13	March-18	Railway X'ing/ ROW/ Compensation issue.
26	Agia- Sonapur (Hatchingmari) S/C line on D/C tower	102.51	April -17		

Commercial Status

1. Entitlement, Schedule, Drawal and DSM Charges for the month of October 2017

Name of states	Entitlement from ISGS in NER (in MU)	Entitlement from ISGS in ER (in MU)	Total Entitlement (in MU)	Scheduled energy against entitlement (in MU)	Schedule Drawal (for Dev A/c) (Ex-PP State) (in MU)	Actual Drawal from Grid (in MU)	Over Drawal (+) / Under Drawal (-) (in MU)	Dev Payable (-) / Receivable (+) (including additional deviation) (Rs. In Cr)
Arunachal Pradesh	74.50	3.80	78.30	75.17	75.17	69.46	-5.72	1.14
ASEB	519.61	94.40	614.01	537.67	650.31	667.68	17.37	-8.34
Manipur	110.14	0.00	110.14	101.94	74.44	69.71	-4.72	1.06
MeSEB	133.96	0.00	133.96	103.41	-8.65	-9.81	-1.16	-0.61
Mizoram	53.51	2.78	56.30	54.31	39.14	35.32	-3.82	1.02
Nagaland	63.70	8.35	72.05	59.44	54.47	51.89	-2.58	0.63
Tripura	163.03	0.00	163.03	158.47	108.13	107.54	-0.59	-1.03
PGCIL-HVDC	1.65	0.00	1.65	1.20	1.20	0.76	-0.45	0.11

(Source: PSP, NERPC)

* In addition to total entitlement, bilateral exchanges and purchase/sell through traders/exchange are covered in Annexure-III.

2. Schedule for ISGS Generation for the month of October 2017

ISGS	Schedule (MU)	Injection (MU)
AGTCCPP	109.60	139.72
AGBPP	207.81	151.69
KOPILI - I HEP	75.02	76.11
KOPILI - II HEP	31.52	
KHANDONG HEP	129.11	

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DHEP	14.03	0.00
RHEP	51.15	37.81
LOKTAK HEP	53.64	58.77
OTPC, PALLATANA	198.20	357.41
BgTPP	46.07	117.91

Source: Final PSP for the month of October 2017.

3. Cumulative Wt. Average Share Allocation (%) (Up to this month) in CS Stations

States	Kopili (200 MW)	Kopili-II (25 MW)	Khandong (50 MW)	RHEP (405 MW)	DHEP (75 MW)	AGBPP (291 MW)	AGTCCPP (130 MW)	BgTPP (250 MW)	OTPC (726.6 MW)	Loktak HEP (105 MW)
Arunachal Pradesh	5.191	5.992	4.194	18.462	6.852	5.694	6.702	5.1325	3.0303	4.940
Assam	53.455	52.355	56.285	43.328	43.808	56.503	43.720	57.420	33.058	29.445
Manipur	7.395	6.945	6.555	8.373	7.865	8.105	8.225	7.505	5.7851	42.508
Meghalaya	17.395	13.675	16.905	11.505	11.455	11.815	12.633	10.980	10.882	0.000
Mizoram	4.610	6.040	3.940	5.700	5.250	5.410	6.0	5.415	3.0303	5.020
Nagaland	6.147	5.735	6.653	5.335	17.967	5.805	5.737	4.930	3.7190	6.435
Tripura	5.807	9.258	5.468	7.297	6.803	6.668	16.983	7.6175	26.9972	11.652
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	98.995	86.5019	100.00

4. Share Allocation (%) in CS Stations from Eastern Region

States	Farakka-I	Kahelgaon-I	Kahelgaon-II	Talcher	Farakka-III
Assam	2.455737%	2.104847%	5.093479%	2.095419%	0.000000%
Meghalaya	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%
Nagaland	0.429803%	0.424446%	0.000000%	0.424823%	0.000000%
Arunachal Pradesh	0.191917%	0.191747%	0.000000%	0.196898%	0.000000%
Mizoram	0.141736%	0.141610%	0.000000%	0.141736%	0.000000%
Assam (NVVN Coal Power)	0.091912%	0.091912%	0.091912%	0.091912%	0.091912%

5. Details of Fixed and Energy Charges of CS Stations for FY 2015-16

Projects	Installed Capacity (MW)	Design Energy (GWh)	Annual Fixed Charge (Crore)	Reference
KOPILI HEP	200	1186.14	109.8446	As per CERC order dated 13.01.2016 in petition No 46/GT/2015.
KOPILI - II	25	86.30	13.2283	As per CERC order dated 23.01.2012 in pet. No 298/2009

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KHANDONG HEP	50	277.61	40.3627	As per CERC order dated 13.01.2016 in petition No 42/GT/2015.
RHEP	405	1509.69	260.4693	As per CERC order dated 05.01.2016 and corrigendum 07.03.2016 in petition No.40/GT/ 2015.
DHEP	75	227.24	101.5605	As per CERC order dated 13.01.2016 and corrigendum dtd. 07.03.16 in petition No 43/GT/ 2015.
AGBPP	291	NA	296.5691	As per CERC order dated 15.02.2016 in Pet. No 459/GT/ 2014& 41/GT/2015. Base Rate of energy Charge as per the CERC Order
AGTPP	84	NA	71.7633	As per CERC order dated 11.03.2011 in Pet.No 299/2009,^Base Energy charge as per CERC order
LOKTAK HEP	105	448.00	107.1660	As per CERC order dated 22.10.2012 in RP No. 24/2011 in Pet.No 108/2010
PALLATANA	726.6	NA	763.9771	As per CERC order dated 17.06.2015 in Pet. No 129/GT/2015
BgTPP	250	NA	NA	

Regional Transmission Account (RTA) for the month of October 2017

Name of DIC	Demand/ Injection Zone	PoC Charges	Reliability Support Charges	HVDC Charges	Total
Arunachal Pradesh	Arunachal Pradesh	29681285.68	3931104.12	1208112.79	34820502.58
ASEB	Assam	326651724.1	26994181.1	8295892.09	361941797.3
Manipur	Manipur	35639029.61	4720170.73	1450609.93	41809810.26
MeECL	Meghalaya	18352497.03	6117667.05	1880090.58	26350254.67
Mizoram	Mizoram	31050345.23	2565970.36	788577.85	34404893.44
Nagaland	Nagaland	28077544.45	3231768.43	993191.9	32302504.79
Tripura	Tripura	22644765.26	7548462.43	2319804.76	32513032.44
HVDC BNC	Assam	668165.23	55216.53	16969.23	740350.98

Grid Disturbance Report

List of Important Grid Disturbances in N E Regional Grid during October 2017

1. At 18:21 Hrs on 02.10.2017, 132 kV Loktak - Ningthoukhong line tripped. It was restored at 18:50 hrs. Outage duration: 0:29 hrs. Load Loss: 53 MW, Generation Loss: 0MW. Category- GD-I. Due to tripping of this element, Ningthoukhong area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.
2. At 17:15 Hrs on 15.10.2017, 132 kV Sonabil -Depota line and 132 kV Sonabil - Ghoramari line tripped. It was restored at 18:44 hrs. Outage duration: 1:29 hrs. Load Loss: 100 MW, Generation Loss: 0 MW. Category- GD-I. Due to tripping of these elements, Depota area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.
3. While charging 132 kV Aizawl - Kumarghat Line at 15:30 Hrs on 18.05.2017, 132 kV Aizawl- Kolasib line and 132 kV Aizawl - Jiribam line tripped. It was restored at 16:00 hrs. Outage duration: 0:30 hrs. Load Loss: 80 MW, Generation Loss: 0 MW. Category- GD-I. Due to tripping of these elements, Zuangtui area and Luangmual area of Mizoram Power System were separated from rest of NER Grid and subsequently collapsed due to no source in these areas and 132 kV Aizawl Substation was also blacked out.
4. At 09:26 Hrs on 21.10.2017, 132 kV Palatana - Surajmaninagar line, 132 KV Monarchak - Rokhia Line, 132 KV AGTCCPP - Kumarghat Line and 132 KV Kumarghat - P K Bari Line tripped. It was restored at 10:23 hrs. Outage duration: 0:57 hrs. Load Loss: 110 MW, Generation Loss: 211 MW. Category- GD-I. Due to tripping of these elements, Tripura Power System (except Udaipur area), Dullavchera area of Assam Power System and Bangladesh(South Comilla) Power System were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.

Annexures and Exhibits

A-1

Major Reservoirs Level of The Month

	FRL (mtr.)	MDDL (mtr.)	Oct 2017	Oct 2016
			Level in mtr/ft	Level in mtr/ft
KHANDONG	719.3	704	723.9	714.3
KOPILI	609.5	592.83	609.5	604.8
LOKTAK	768.5	766.2	769.2	768.9
BARAPANI	3220 ft	3150 ft	3218.6	3176.6
GUMTI	93.55	83.6	93.8	90.6
DOYANG	333	306	322.9	321.0

A-2

Frequency Analysis For The Month of October 2017

Frequency	Freq. (in Hz.)	Date (D.M.Y)
1. Maximum Frequency	50.20	10.10.2017
2. Minimum Frequency	49.65	13.10.2017
3. Monthly Average	49.97	

Frequency in Hz as %age of Time for the Blocks

$f < 49.90$	$49.90 < f < 50.05$	$f > 50.05$
13.60	77.21	9.19

Daily Frequency Variation Index (FVI):

Date	FVI	Date	FVI
01-10-2017	0.025	17-10-2017	0.029
02-10-2017	0.035	18-10-2017	0.033
03-10-2017	0.090	19-10-2017	0.029
04-10-2017	0.075	20-10-2017	0.033
05-10-2017	0.072	21-10-2017	0.035
06-10-2017	0.039	22-10-2017	0.034
07-10-2017	0.060	23-10-2017	0.054
08-10-2017	0.035	24-10-2017	0.049
09-10-2017	0.037	25-10-2017	0.069
10-10-2017	0.048	26-10-2017	0.060
11-10-2017	0.045	27-10-2017	0.093
12-10-2017	0.053	28-10-2017	0.073
13-10-2017	0.070	29-10-2017	0.064
14-10-2017	0.039	30-10-2017	0.036
15-10-2017	0.027	31-10-2017	0.052
16-10-2017	0.045		

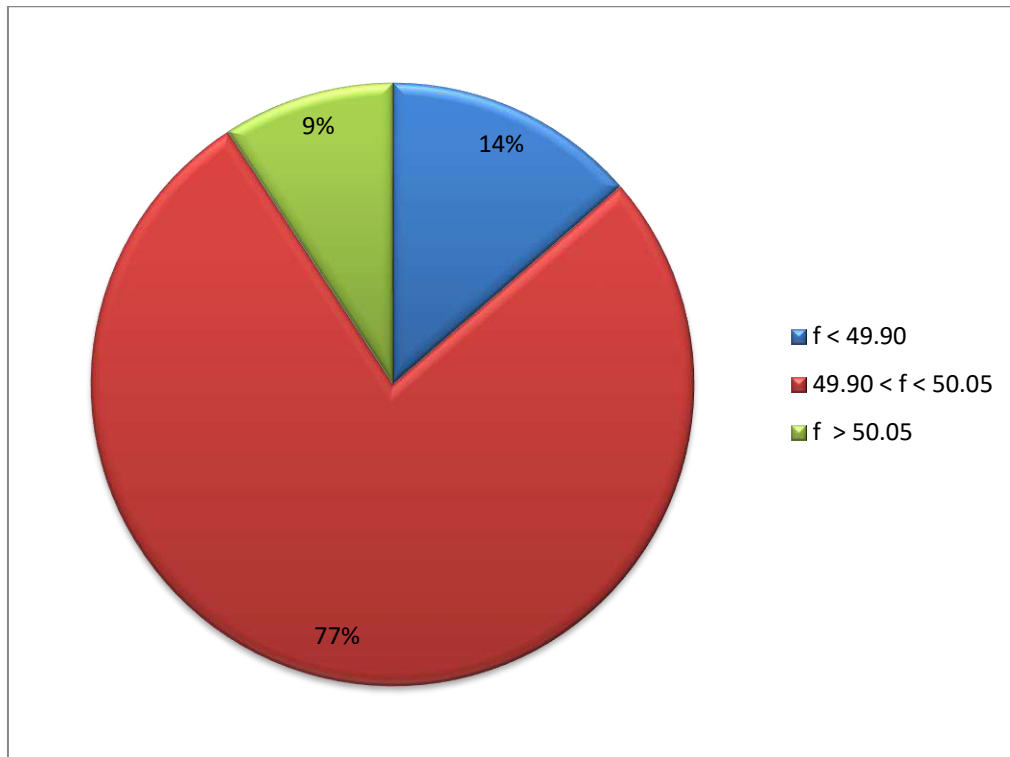
A-3

Consolidated Scheduled Bilateral Exchanges in NE Region during October 2017

Name of Trader	Energy at NER periphery (in MWH)
APPCPL	23138
IEX	1320
IEXL	1406
MPPL	12280.5
NPC	143
NPCL	1644
PTC	3296
OTPC	48360

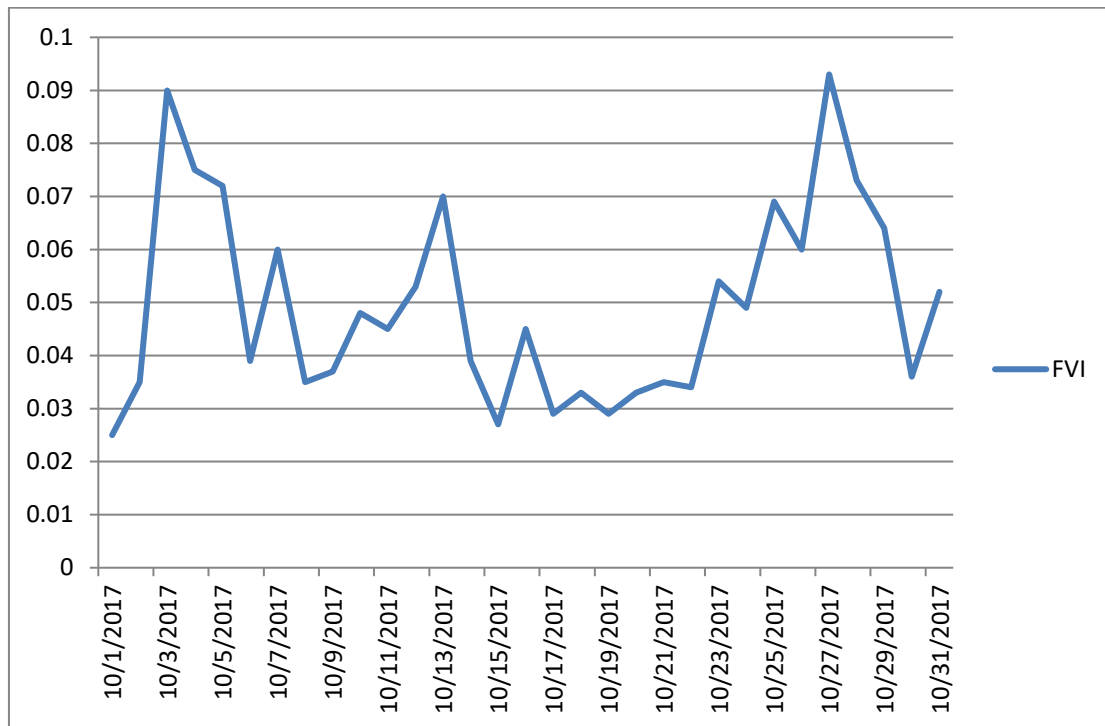
B-1

Frequency Duration for October 2017



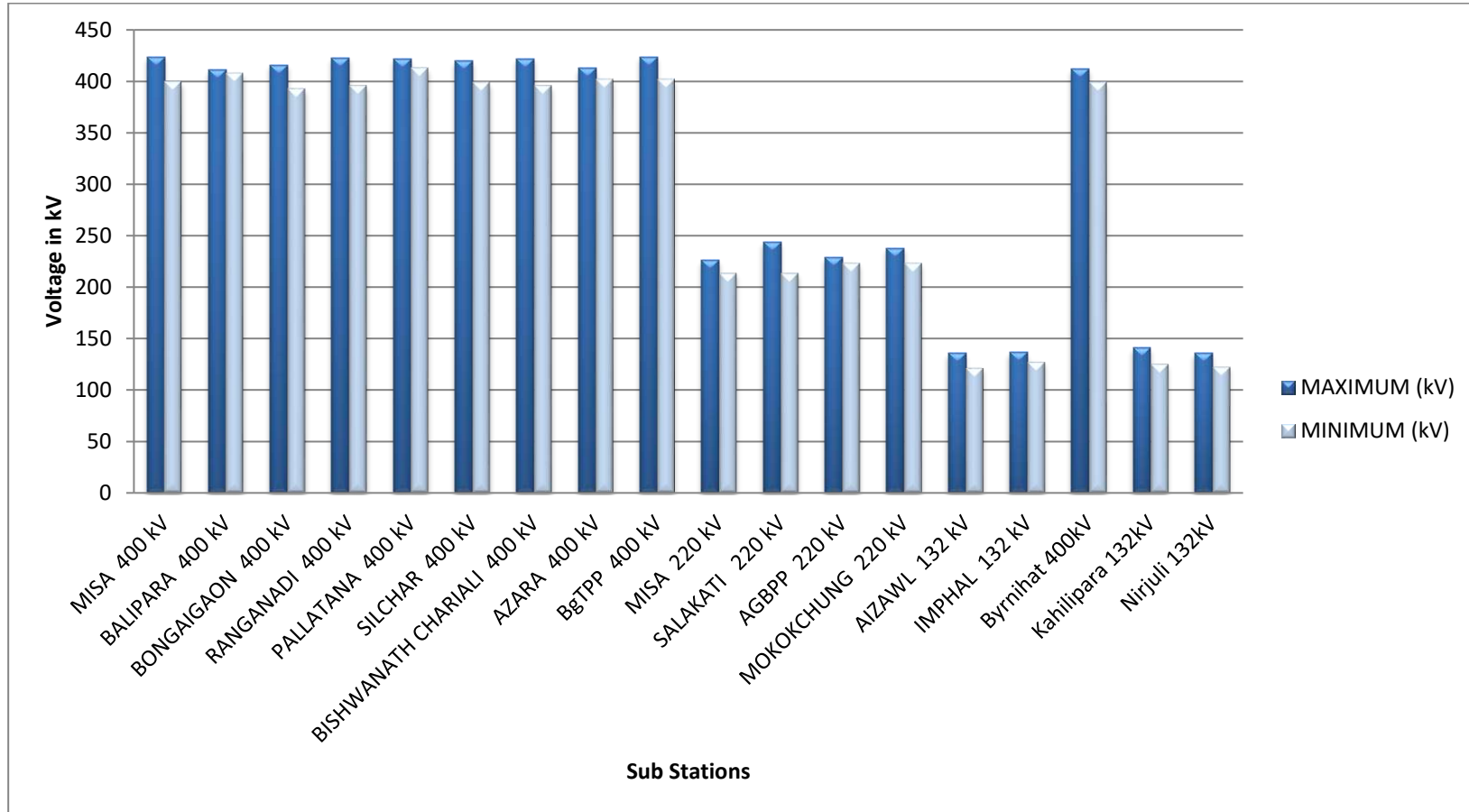
B- 2

FVI Characteristic for October 2017



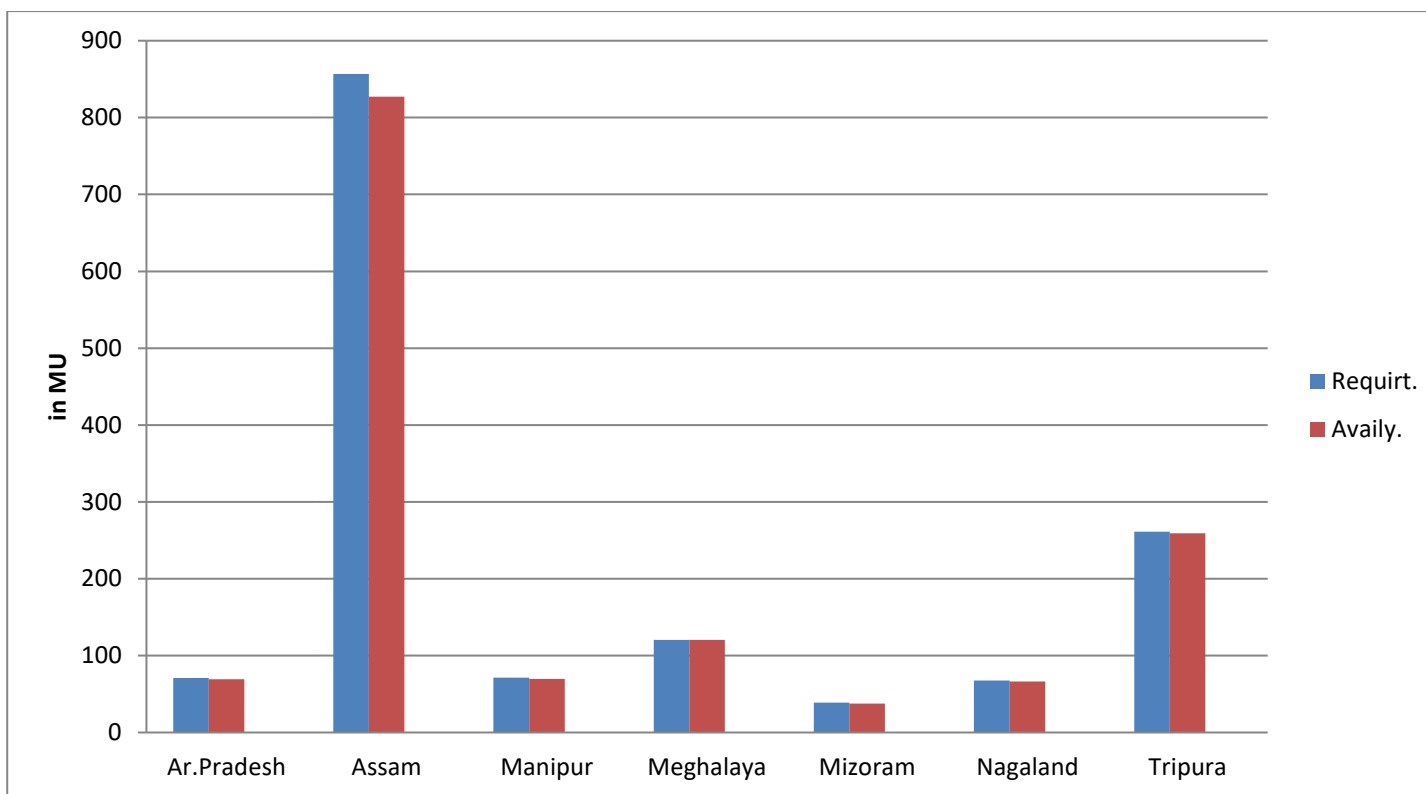
B-3

Voltage Variation Range for October 2017



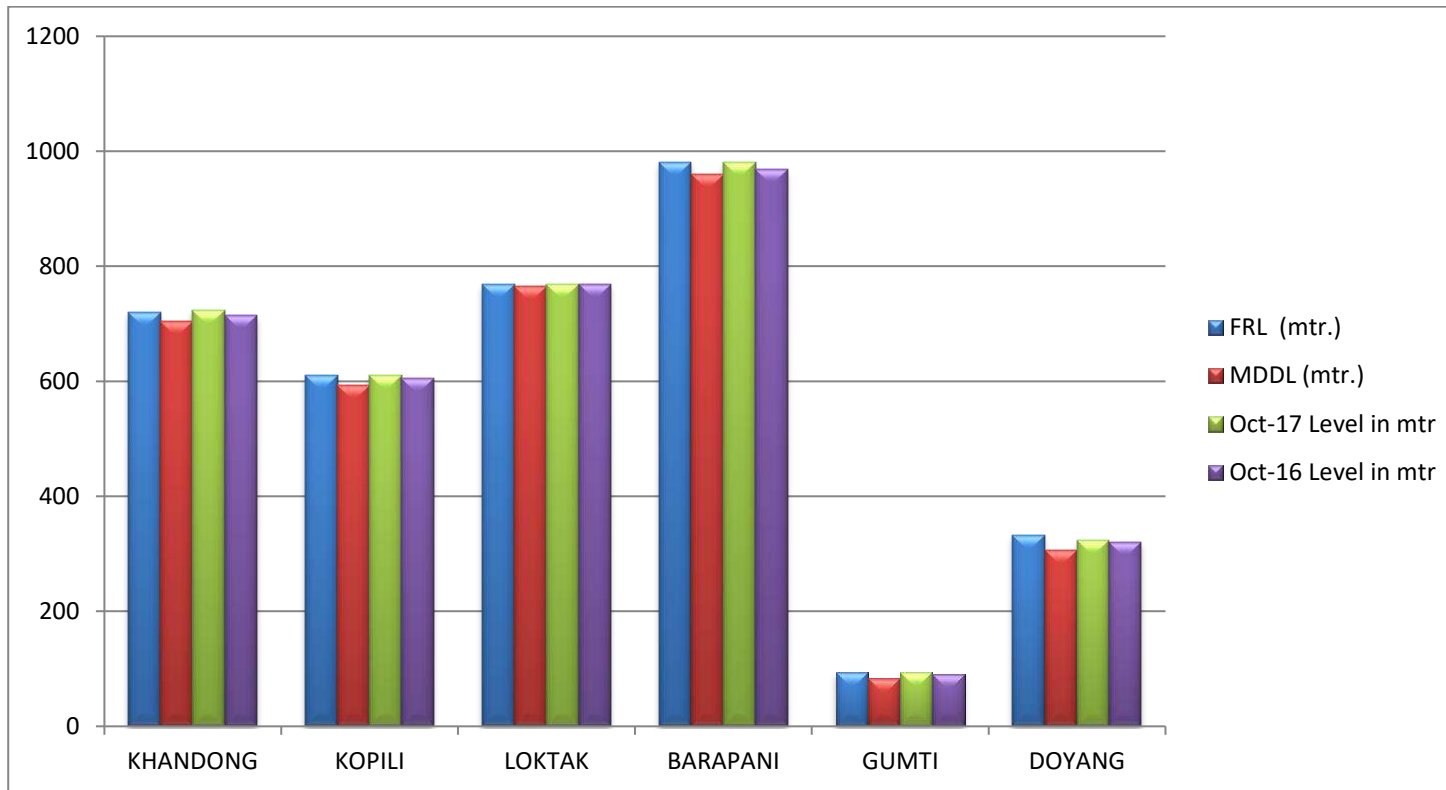
B-4

Energy Profile for October 2017



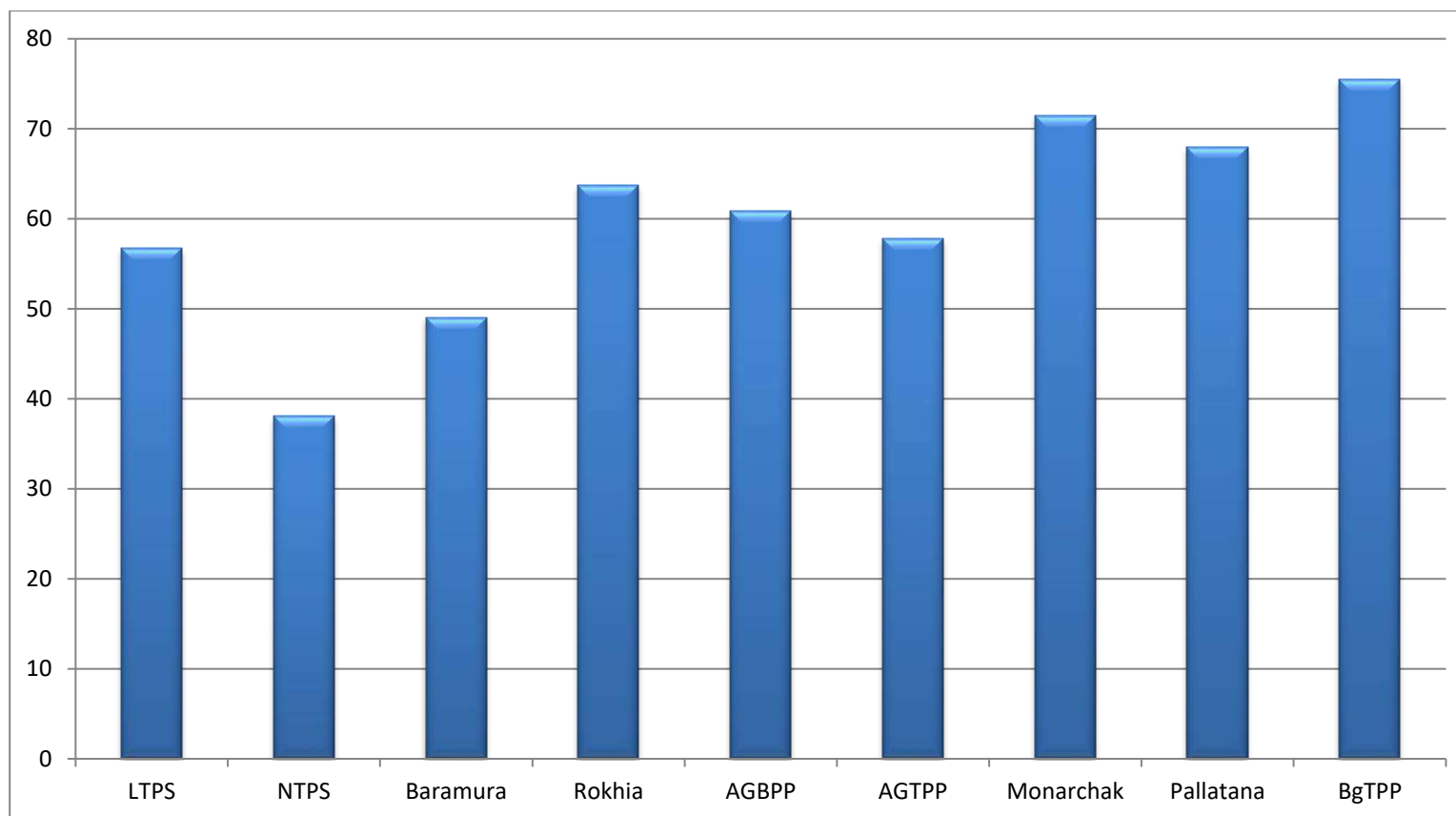
B-5

Reservoir Profile for October 2017



B-6

Station-wise Plant Load Factor for October 2017



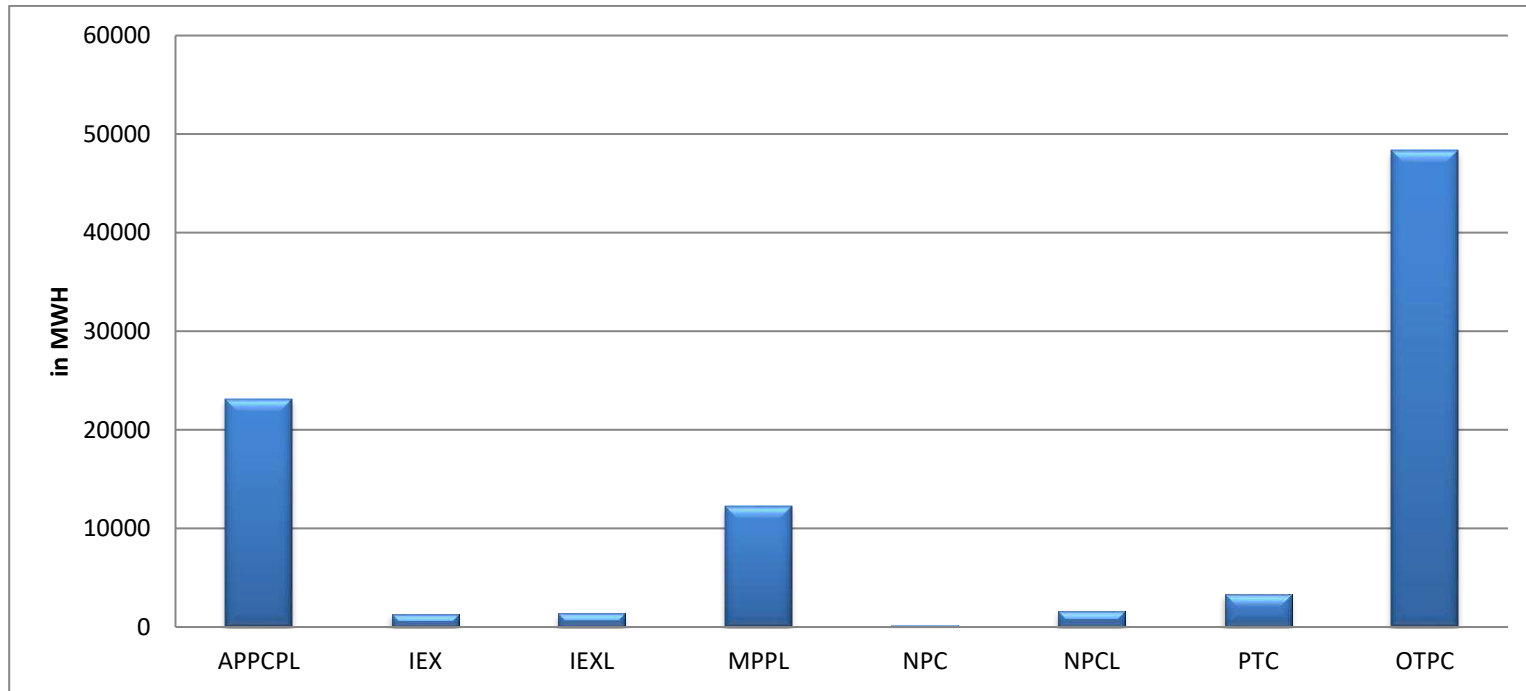
B-7

Collective Transaction through IEX Power Exchange October 2017



B-8

Consolidated SEB in NE Region for the month of October 2017





सत्यमेव जयते

Progress Report for the month of November 2017

Government of India
Ministry of Power
North Eastern Regional Power Committee
Shillong

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Brief highlights of North Eastern Regional Power System for the month of November 2017

- The maximum unrestricted demand during the month of November 2017 was 2443 MW, which was 2596 MW in the month of October 2017. The peak demand met in NER during the period under review was 2380 MW, which was 2499 MW in the previous month.
- The energy requirement during the month of November 2017 was 1290.19 MU, which was 1486.85 MU in the month of October 2017. The energy availability in NER during the period under review was 1268.92 MU, which was 1450.71 MU in the previous month.
- The maximum, minimum & average system frequencies were 50.27 (19.11.17), 49.62 (07.11.17) & 49.97 Hz respectively. The maximum, minimum & average FVI were 0.156, 0.031 & 0.059 respectively. The average FVI was more than its previous month's figure of 0.049. (Refer Annex-II).
- Maximum export of power from NER to ER was 143 MW (on 26.11.17 at 04:45Hrs.) and that from ER to NER was 1194 MW (on 25.11.17 at 16:45 Hrs). The same Inter-Regional Exchanges of NER with NR and vice versa were 1007 MW (on 01.11.17 at 01:00Hrs.) and 0 MW respectively. Total net energy import during the month was -156.47 MU (284.53 MU from ER and -441 MU from NR).

Salient Features of North Eastern Regional Grid for November 2017

1	New Unit/Transmission Line/Transformer commissioned during this month	1) BgTPP Unit 2 -250MW on 01.11.17. 2) 132kV Silchar-Hailakandi D/C Line on 15.11.17.	
2	Number of major grid disturbance during this month		
3	Installed Capacity of the Region (in MW) *	Nov-17	Nov-16
	(i) Grid	3702.00	3496.00
	(ii) Isolated	123.00	124.00
	Total (As on 30.11.2017)	3825.00	3620.00
4	Energy Generation in MU (Gross):		
	Thermal/Gas	939.21	846.34
	Hydel	478.88	320.52
	Solar	0.70	0.60
	Total	1418.79	1167.46
5	Demand in MW:		
	Registered Peak Demand	2443	2377
	Peak Demand Met	2380	2314
	Shortage (%age)	2.65	2.7
6	Regional Energy (Gross) in MU:		
	Energy Requirement	1290.19	1157
	Energy Availability	1268.92	1111
	Surplus (+)/Deficit(-) (%age)	-1.7	-4.1
7	Inter Regional Energy Exchange in MU:		
	NER -----> ER	1.47	38.04
	ER -----> NER	286.0	452.3
	NER -----> NR	441.0	402
	NR -----> NER	0	52
	Net Import	-156.47	64.26
8	Frequency Profile:		
	Average Frequency (Hz)	49.97	49.95
	Average Frequency Variation Index	0.059	-

*The installed capacity of NER as on 01.10.2016 as furnished by the constituents is : Grid = 3362.3MW and isolated is 109.51 MW. Total NER= 3471.81MW

Monthly Power Supply Position

1. Energy Generation In The Region For the Month of November 2017

All figures in MU

Constituents	Hydro		Coal/Oil fired		Gas Based (OC/CC)		Solar		Total (Gen)	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net
	A	B	C	D	E	F	G	H	I	J
State Sector :										
Assam	46.78				81.97				128.75	
Meghalaya	84.79								84.79	
Mizoram	0								0	
Tripura	3.31				50.34				53.65	
Nagaland	12.2								12.2	
Total (S. Sector)	147.08				132.31		0		279.39	
Central Sector :										
NEEPCO:										
Khd+Kop+Kop-II	167.6								167.6	
Kathalguri (AGBPP)					110.5				110.5	
RC Nagar					53				53	
Doyang	18								18	
Ranganadi	70.4								70.4	
Monarchak					58.2		0.7		58.9	
NHPC:										
Loktak	75.8								75.8	
OTPC:										
Pallatana Gas PP					362.2				362.2	
NTPC:										
BgTPP			223						223	
Total (C. Sector)	331.8		223		583.9		0.7		1139.4	
Total NER	478.88		223		716.21		0.7		1418.79	

2. Requirement Vs Availability In The Region

STATES	ENERGY requirement (MU) at 50 Hz				POWER requirement (MW) at 50 Hz			
	<i>Availability & L/S at prevailing frequency</i>				<i>Availability & L/S at prevailing frequency</i>			
	Requirement	Availability	Shortfall	% Shortfall	Requirement	Availability	Shortfall	% Shortfall
Ar. Pradesh	70.88	69.81	1.07	1.53	144	136	8	5.88
Assam	695.24	679.13	16.11	2.37	1515.17	1478.17	37	2.50
Manipur	73.07	72.01	1.06	1.47	180.11	178.22	1.89	1.06
Meghalaya	136.14	136.10	0.04	0.03	338.98	338.98	0	0.00
Mizoram	33.65	32.74	0.91	2.78	94.89	90.00	4.89	5.43
Nagaland	57.33	56.28	1.05	1.87	132.18	131.50	0.68	0.52
Tripura	223.89	222.86	1.03	0.46	276.0	276.0	0	0.00
REGION	1290.19	1268.92	21.27	1.68	2443	2380	63	2.65

3. Estimation Of Peak Demand (In MW)

Constituents	Peak Demand Met	Date	Freq (Hz)	Estimated Peak Demand at 50 Hz
Arunachal Pradesh	136	17.11.17	50.00	144
Assam	1478	03.11.17	50.00	1515
Manipur	178	22.11.17	50.02	180
Meghalaya	339	29.11.17	50.00	339
Mizoram	90	30.11.17	50.04	95
Nagaland	132	07.11.17	50.08	132
Tripura*	240	14.11.17	50.02	240
REGION	2380	17.11.17	50.00	2443

4. Estimation of Energy Requirement (In MU)

Constituents	Generation	Energy Drawal from Grid		Energy Availability	Actual Requirement
		Schedule	Drawal		
Arunachal Pradesh	0	58.19	69.81	69.81	70.88
Assam	128.75	533.79	549.87	679.13	695.24
Manipur	0	74.93	72.01	72.01	73.07
Meghalaya	84.79	75.45	72.94	136.10	136.14
Mizoram	0	31.16	32.74	32.74	33.65
Nagaland	12.20	45.41	44.20	56.28	57.33
Tripura	53.65	60.17	57.28	222.86	223.89
REGION	279.39	879.10	898.85	1268.92	1290.19

*Tripura(excluding Bangladesh)

Station-Wise Energy Generated (MU) and Peak Generation (MW)

S. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Nov-17	Nov-16
(i) STATE SECTOR : HYDRO					
ASSAM : HYDRO					
1	LANGPI U-1	50	50	18.46	12.41
2	LANGPI U-2	50	50	28.32	17.43
TOTAL		100	100	46.78	29.84
MEGHALAYA : HYDRO					
3	UMIAM STAGE - 1 U-1	9	9	2.12	0.24
4	UMIAM STAGE - 1 U-2	9	9	2.51	1.18
5	UMIAM STAGE - 1 U-3	9	9	2.71	0.63
6	UMIAM STAGE - 1 U-4	9	9	2.65	1.08
7	UMIAM STAGE - 2 U-1	10	10	2.13	1.49
8	UMIAM STAGE - 2 U-2	10	10	2.70	0.13
9	UMIAM STAGE - 3 U-1	30	0	0	0.00
10	UMIAM STAGE - 3 U-2	30	29	14.37	7.12
11	UMIAM STAGE - 4 U-1	30	30	6.94	0.31
12	UMIAM STAGE - 4 U-2	30	30	10.42	7.35
13	UMTRU U-1	3	3	10.52	0
14	UMTRU U-2	3	3	10.47	0
15	UMTRU U-3	3	0	0	0
16	UMTRU U-4	3	0	0	0
17	MYNTDU-LESHKA U-1	42	0		7.25
18	MYNTDU-LESHKA U-2	42	42	8.80	1.53
19	MYNTDU-LESHKA U-3	42	42	7.69	6.15
20	SONAPANI	2	1	0.76	0.70
TOTAL		316	236	84.79	35.17
NAGALAND : HYDRO					
21	LIKIMRO - 1	8	8	3.86	3.18
22	LIKIMRO - 2	8	8	3.56	2.55
23	LIKIMRO - 3	8	8	4.78	3.10
TOTAL		24	24	12.20	8.83
MIZORAM : HYDRO					
24	SERLUI B U-1	4	0	0	0.62
25	SERLUI B U-2	4	0	0	0
26	SERLUI B U-3	4	0	0	0
TOTAL		12	0	0	0.62
TRIPURA : HYDRO					
27	GUMTI - 1	5	0	0	0
28	GUMTI - 2	5	5	2.68	2.81
29	GUMTI - 3	5	6	0.63	4.65
TOTAL		15	11	3.31	7.46
TOTAL STATE (HYDRO) :		467	371	147.08	81.92

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Sr. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Nov-17	Nov-16
(i) STATE SECTOR : THERMAL/GAS					
MIZORAM : THERMAL					
1	BAIRABI U-1	6	0	0	0
2	BAIRABI U-2	6	0	0	0
3	BAIRABI U-3	6	0	0	0
4	BAIRABI U-4	6	0	0	0
TOTAL		24	0	0	0
TRIPURA : THERMAL					
5	BARAMURA - 1	5			
6	BARAMURA - 2	5			
7	BARAMURA - 3	6.5			
8	BARAMURA - 4	21	22	15.48	13.01
9	BARAMURA - 5	21	0	0	1.98
10	ROKHIA - 1	8			
11	ROKHIA - 2	8			
12	ROKHIA - 3	8	0	0	0
13	ROKHIA - 4	8	0	0	0
14	ROKHIA - 5	8	0	0	0
15	ROKHIA - 6	8	0	0	0
16	ROKHIA - 7	21	21	12.82	14.28
17	ROKHIA - 8	21	23	10.86	13.01
18	ROKHIA - 9	21	21	11.18	10.35
TOTAL		169.5	87	50.34	52.63
MEGHALAYA PRIVATE : THERMAL(COAL)					
19	Maithon Alloy Ltd.	15	0	0	0
19	Shyam Century	14	0	0	0
20	Adhunik Cement	25	0	0	0
TOTAL		54	0	0	0
ASSAM : THERMAL					
21	LTPS - 1	15	0	0	0
22	LTPS - 2	15	15	7.85	8.23
23	LTPS - 3	15	18	9.67	0
24	LTPS - 4	15	0	0	9.34
25	LTPS - 5	20	28	14.59	14.14
26	LTPS - 6	20	23	13.11	11.25
27	LTPS - 7	20	25	13.00	7.90
28	LTPS - 8	37	0	0	15.89
29	NTPS - 1	20	0	0	5.64
30	NTPS - 2	21	19	8.35	5.87
31	NTPS - 3	21	21	8.97	5.97
32	NTPS - 4	11	10	1.74	0
33	NTPS - 5	24	0	0	5.73
34	NTPS - 6	22	12	4.67	4.27
35	DLF	25	0	0	0
TOTAL		301	151	81.97	94.21
TOTAL STATE (THERMAL/GAS) :		561.5	238	132.31	146.84
TOTAL STATE GEN (HY+TH/GAS)		1028.5	609	279.39	228.76

S. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Nov-17	Nov-16
(ii) CENTRAL SECTOR : HYDRO					
1	KHANDONG - 1	25	26	18.3	10.5
2	KHANDONG - 2	25	25	18.1	10.3
3	KOPILI Stg - II	25	0	0	5.1
4	KOPILI - 1	50	48	31.0	8.6
5	KOPILI - 2	50	49	35.6	27.4
6	KOPILI - 3	50	50	30.6	13.0
7	KOPILI - 4	50	48	34.0	18.0
8	DOYANG - 1	25	38	6.7	4.9
9	DOYANG - 2	25	18	4.4	6.0
10	DOYANG - 3	25	38	6.9	6.1
11	LOKTAK - 1	35	37	25.3	25.0
12	LOKTAK - 2	35	36	25.6	25.2
13	LOKTAK - 3	35	36	25.0	25.0
14	RANGANADI - 1	135	155	17.7	17.5
15	RANGANADI - 2	135	141	25.1	19.0
16	RANGANADI - 3	135	141	27.6	17.1
TOTAL CS HYDRO :		860	886	331.8	238.6
(ii) CENTRAL SECTOR : THERMAL/GAS					
1	KATHALGURI - 1	34	33	10.9	16.6
2	KATHALGURI - 2	34	32	9.6	16.3
3	KATHALGURI - 3	34	33	9.7	6.6
4	KATHALGURI - 4	34	35	10.0	12.1
5	KATHALGURI - 5	34	37	19.4	15.9
6	KATHALGURI - 6	34	38	20.8	17.6
7	KATHALGURI - 7	30	25	8.4	13.8
8	KATHALGURI - 8	30	30	5.5	7.8
9	KATHALGURI - 9	30	30	16.1	14.1
10	R.C. NAGAR - 1	21	21	9.5	15.0
11	R.C. NAGAR - 2	21	21	9.6	9.4
12	R.C. NAGAR - 3	21	20	2.7	14.6
13	R.C. NAGAR - 4	21	21	11.8	14.5
14	R.C. NAGAR - 5	23	20	11.2	10.0
15	R.C. NAGAR - 6	23	22	8.2	17.0
16	MONARCHAK SOLAR PV	5	5	0.7	0.6
17	MONARCHAK - GTG 1	65.5	65	38.3	8.4
18	MONARCHAK - STG 1	35.5	34	19.9	0
19	PALLATANA - GTG 1	232	222	92.3	91.2
20	PALLATANA - STG 1	131	125	67.6	57.6
21	PALLATANA - GTG 2	232	224	124.8	134.5
22	PALLATANA - STG 2	131	125	77.6	79.6
23	BgTPP - 1	250	251	130.4	136.1
24	BgTPP - 2	250	250	92.6	

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25	BgTPP - 3				
TOTAL CS (THERMAL/GAS) :		1505	1430	807.6	700.1
TOTAL CS GEN (HY+TH/GAS)		2365	2316	1139.4	938.7
TOTAL NER GEN (HY+TH/GAS)		3393.5	2925	1418.79	1167.46

Plant Load Factor (PLF)

PLANT LOAD FACTOR OF THE THERMAL/GAS STATIONS IN N.E.R.					
S. No.	Power Station	State/Constituent	Installed Capacity (MW)	Generation (in MU)	Stationwise PLF(%)
1	LTPS*	AEGCL	157.00	58.23	63.59
2	NTPS*	AEGCL	119.00	23.74	33.10
3	Baramura	Tripura	42.00	15.48	49.53
4	Rokhia	Tripura	95.00	34.86	76.86
5	AGBPP	NEEPCO	291.00	110.5	51.35
6	AGTTP	NEEPCO	130.00	53	54.35
7	Monarchak	NEEPCO	102.00	58.2	79.96
8	Pallatana	OTPC	727.00	362.2	68.23
9	BgTTP	NTPC	250.00	223.0	64.56

*LTPS -- Lakwa Thermal Power Station; *NTPS -- Namrup Thermal Power Station

Voltage Profile

1. Maximum and Minimum Voltage (KV) Of Important Substations

S. No.	NAME of SUB-STATION	MAXIMUM (kV)	MINIMUM (kV)
1	MISA 400 kV	426	397
2	BALIPARA 400 kV	425	381
3	BONGAIGAON 400 kV	423	394
4	RANGANADI 400 kV	425	388
5	PALLATANA 400 kV	422	413
6	SILCHAR 400 kV	420	395
7	BISHWANATH CHARIALI 400 kV	424	393
8	AZARA 400 kV	414	403
9	BgTPP 400 kV	426	403
10	MISA 220 kV	227	214
11	SALAKATI 220 kV	244	214
12	AGBPP 220 kV	227	223
13	MOKOKCHUNG 220 kV	239	225
14	AIZAWL 132 kV	136	121
15	IMPHAL 132 kV	137	128
16	Byrnihat 400kV	412	399
17	Kahilipara 132kV	141	126
18	Nirjuli 132kV	145	123

2. Voltage Range In KV as Percentage Of Time For The Block

SUB-STATION	kV < 360	360 < kV < 380	380 < kV < 420	kV > 420
MISA	0.00	0	93.23	6.77
BALIPARA	0.08	0	98.06	1.86
BONGAIGAON	0.00	0	99.11	0.89
PALATANA	0	0	80.53	19.47
SILCHAR	0	0	99.99	0.01
Azara	0.00	0	100.00	0
Biswanath Charali	0.01	0	100.00	0
BgTPP	0	0	80.61	19.39
Byrnihat	0.00	0	100.00	0

Inter-Regional Energy Exchange, Major Grid Disturbance and Meetings held by NERPC

1. Inter-Regional Energy Exchange

All Fig. in MU

N E R to E R	1.47
E R to N E R	286.0
NET IMPORT FORM E R	284.53
N E R to N R	441
N R to N E R	0
NET IMPORT FROM N R	-441
NET IMPORT	-156.47

2. Major Grid Disturbances:

None.

3. Meetings Held by NERPC:

Sr. No.	Meeting	Date	Venue
1.	138 th OCC Meeting	24.11.2017	Guwahati

Status of Progress

1. Generating Projects in NER

Progress of Thermal Power Generation Projects in NER					
Central Sector					
Sr. No.	Plant	Units	Capacity in MW	Commissioning Schedule	Remarks
1	NTPC Bongaigaon	3rd		Jul-17	<ul style="list-style-type: none"> Boiler Drum Lifting Feb'13 & Boiler Hydro test Mar'14 Next Milestone : Boiler Light Up Nov'16

Progress of Hydro Power Generation Projects in NER					
Central Sector					
Sr. No.	Plant	Units	Capacity in MW	Commissioning Schedule	Remarks
1	Subhansiri Lower (Ar. Pradesh/NHPC)	8	8x250	Syn. Comm: 2016-18	<ol style="list-style-type: none"> Signing of MoU with State Government of Assam Law & Order problem Issue of Downstream Impact Assessment & demand for stoppage of works by anti-dam activists. Since 16.12.2011 work.
2	Kameng (Ar. P/NEEPCO)	4	4x150	Mar-18	Work in Progress
3	Pare (Ar. P/NEEPCO)	2	2x55	Mar-18	Work in Progress
4	Demwe Lower (Ar. P)	6	5x342; 1x40	2016-17	
State Sector					
1	Ganol SHP (MePGCL)	3	3x7.5	Oct-15	LOI issued on 22nd Dec,2012. Work Order is being issued.
3	Lakroh MHP (MePGCL)	1	1.5		Delayed due to rain.

2. Transmission Lines In NER

Progress of Transmission Lines in NER					
POWERGRID					
Sr. No.	Name of Lines	Total length in Km	Target Date		Remarks
			Scheduled	Revised	
1	400 kV Kameng-Balipara D/C	144	Aug-13	Mar-18	ATS slowed down to the extent possible to match with generation of Kameng.
2	400 kV Lower Subansiri-Biswanath Chariyali D/C I	335	Aug-13	Mar-18	Completion matching with Gen.(Sch. uncertain).Works Standstill on account of local disturbance/agitation against big dam. Generation schedule uncertain.
3	400 kV Lower Subansiri-Biswanath Chariyali D/C II	348	Aug-13	Mar-18	Completion matching with Gen.(Sch. uncertain).Works Standstill on account of local disturbance/agitation against big dam. Generation schedule uncertain.
4	400 kV Silchar-Melriat(New) D/C (Charged at 132 kV)	248	Dec-12	Feb-18	Major portion of line in forest. severe ROW in vicinity of Aizawl town due to stiff resistance from influential local owner. Package re-awarded in Jun'16.
5	400 kV D/C Jigmeling - Alipurduar TL	-	Jan-18	Mar-19	Work in Progress
6	132 kV Melriat (New) - Sihhmui	-	Dec-12	Feb-18	
7	Phulbari (Meghalaya) - Ampati	-	Sep-19	Sep-19	
8	LILO of 132 kV Ranganadi-Nirjuli at Pare	-		Oct-17	
9	132 kV Tezu-Namsai S/C	96	Dec-12	Feb-18	Progress affected due to severe ROW Problem.
10	132KV D/C Interconnecting Silchar-Melriat T/L using 220 KV Towers	-	Mar-17	June-17	
TSECL					
11	132 kV Monarchak-Surajmani Nagar D/C	50	Jun-14	Mar-17	Work in Progress
12	132 kV Surjyamani	6		Aug-16	Fund proposed in World

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	Nagar-Badarghat D/C				Bank.
13	132 kV Surjyamani Nagar(TSECL)-Rokhia DC	32.32	Nov-14	Mar-14	3.598 km line in forest land for which TSECL will supply for forest clearance. LOA issued.
14	132 kV Gamai Tilla - Dhalabil	31		Sep-13	ROW problems affected the work
15	132 kV P K Bari - Kanchanpur	47		Mar-15	All works completed in non forest land. Stage I clearance received and compliance for conditions completed.
MePTCL					
16	132 kV Rongkhon-Ampati D/C	1		Dec-17	
MeECL					
17	LILO of 132 kV Mawlai-Cherrapunjee at Mawngap	10		Mar-18	Work held up due to ROW problem. The PHED,GOMe has complained and filed and FIR against Loc No. 3 to 8. Overall status is 90% completed.
18	LILO of 132 kV NEIGRIHMS - Khliehriat at Lad Nongkrem	6		Dec-17	Delay in supply of materials for line by the vendor.
19	LILO of 132 kV Rongkhon - Ampati at Praharinagar	20		Sep-18	Survey works for 132 kV LILO is completed. LOA for the LILO is yet to be awarded.
Mizoram					
20	132 kV Tural-Aizawl	12		Mar-14	
AEGCL					
21	BTPS - Rangia D/C line	326.374	Mar-13	Mar-18	1. Overall 89%completed.A. All normal foundation completed. B. 5 nos. of Pile foundation completed.
22	LILO of one Ckt. of Samaguri - Sarusajai D/C line at Sonapur sub-station	26.624	Dec-13	Mar-18	Water logging & harvesting are reasons to be attributed for delaying.
23	132 kV DC Sonapur-Jagiroad Tr. Line.	51.75	Nov-13	Mar-18	Compensation/ROW Issue.
24	132 kV DC Sonapur-Chandrapur Tr. Line	28.438	Nov-13	Mar-18	Railway X'ing/ ROW/ Compensation issue.
26	Agia- Sonapur (Hatchingmari) S/C line on D/C tower	102.51	April -17		

Commercial Status

1. Entitlement, Schedule, Drawal and DSM Charges for the month of November 2017

Name of states	Entitlement from ISGS in NER (in MU)	Entitlement from ISGS in ER (in MU)	Total Entitlement (in MU)	Scheduled energy against entitlement (in MU)	Schedule Drawal (for Dev A/c) (Ex-PP State) (in MU)	Actual Drawal from Grid (in MU)	Over Drawal (+) / Under Drawal (-) (in MU)	Dev Payable (-) / Receivable (+) (including additional deviation) (Rs. In Cr)
Arunachal Pradesh	59.43	3.71	63.14	58.19	58.19	69.81	11.61	-3.32
ASEB	497.93	98.09	596.02	555.67	533.79	549.87	16.08	-5.79
Manipur	103.08	0.00	103.08	84.36	74.93	72.01	-2.92	0.62
MeSEB	125.65	0.00	125.65	92.40	75.45	72.94	-2.52	0.71
Mizoram	49.63	2.72	52.35	49.87	31.16	32.74	1.58	-0.50
Nagaland	56.76	8.23	64.98	50.54	45.41	44.20	-1.21	0.31
Tripura	153.46	0.00	153.46	148.69	60.17	57.28	-2.90	0.72
PGCIL-HVDC	1.35	0.00	1.35	0.84	0.84	0.55	-0.29	0.08

(Source: PSP, NERPC)

* In addition to total entitlement, bilateral exchanges and purchase/sell through traders/exchange are covered in Annexure-III.

2. Schedule for ISGS Generation for the month of November 2017

ISGS	Schedule (MU)	Injection (MU)
AGTCCPP	104.90	107.19
AGBPP	68.70	69.65
KOPILI - I HEP	73.38	75.08
KOPILI - II HEP	35.40	
KHANDONG HEP	129.30	

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DHEP	0.00	0.00
RHEP	16.52	17.83
LOKTAK HEP	49.60	52.51
OTPC, PALLATANA	344.46	351.35
BgTPP	211.51	117.91

Source: Revised PSP, NERPC.

3. Cumulative Wt. Average Share Allocation (%) (Up to this month) in CS Stations

States	Kopili (200 MW)	Kopili-II (25 MW)	Khandong (50 MW)	RHEP (405 MW)	DHEP (75 MW)	AGBPP (291 MW)	AGTCCPP (130 MW)	BgTPP (250 MW)	OTPC (726.6 MW)	Loktak HEP (105 MW)
Arunachal Pradesh	5.191	5.992	4.194	18.462	6.852	5.694	6.702	5.1325	3.0303	4.940
Assam	53.455	52.355	56.285	43.328	43.808	56.503	43.720	57.420	33.058	29.445
Manipur	7.395	6.945	6.555	8.373	7.865	8.105	8.225	7.505	5.7851	42.508
Meghalaya	17.395	13.675	16.905	11.505	11.455	11.815	12.633	10.980	10.882	0.000
Mizoram	4.610	6.040	3.940	5.700	5.250	5.410	6.0	5.415	3.0303	5.020
Nagaland	6.147	5.735	6.653	5.335	17.967	5.805	5.737	4.930	3.7190	6.435
Tripura	5.807	9.258	5.468	7.297	6.803	6.668	16.983	7.6175	26.9972	11.652
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	98.995	86.5019	100.00

4. Share Allocation (%) in CS Stations from Eastern Region

States	Farakka-I	Kahelgaon-I	Kahelgaon-II	Talcher	Farakka-III
Assam	2.455737%	2.104847%	5.093479%	2.095419%	0.000000%
Meghalaya	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%
Nagaland	0.429803%	0.424446%	0.000000%	0.424823%	0.000000%
Arunachal Pradesh	0.191917%	0.191747%	0.000000%	0.196898%	0.000000%
Mizoram	0.141736%	0.141610%	0.000000%	0.141736%	0.000000%
Assam (NVVN Coal Power)	0.091912%	0.091912%	0.091912%	0.091912%	0.091912%

5. Details of Fixed and Energy Charges of CS Stations for FY 2017-18

Projects	Installed Capacity (MW)	Design Energy (GWh)	Annual Fixed Charge (Crore)	Reference
KOPILI HEP	200	1186.14	109.8446	As per CERC order dated 13.01.2016 in petition No 46/GT/2015.
KOPILI - II	25	86.30	13.2283	As per CERC order dated 23.01.2012 in pet. No 298/2009

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KHANDONG HEP	50	277.61	40.3627	As per CERC order dated 13.01.2016 in petition No 42/GT/2015.
RHEP	405	1509.69	260.4693	As per CERC order dated 05.01.2016 and corrigendum 07.03.2016 in petition No.40/GT/ 2015.
DHEP	75	227.24	101.5605	As per CERC order dated 13.01.2016 and corrigendum dtd. 07.03.16 in petition No 43/GT/ 2015.
AGBPP	291	NA	296.5691	As per CERC order dated 15.02.2016 in Pet. No 459/GT/ 2014& 41/GT/2015. Base Rate of energy Charge as per the CERC Order
AGTPP	84	NA	71.7633	As per CERC order dated 11.03.2011 in Pet.No 299/2009,^Base Energy charge as per CERC order
LOKTAK HEP	105	448.00	107.1660	As per CERC order dated 22.10.2012 in RP No. 24/2011 in Pet.No 108/2010
PALLATANA	726.6	NA	899.0405	As per CERC order dated 30.03.2017 in Pet. No 129/GT/2015
BgTPP	250	NA	NA	

Regional Transmission Account (RTA) for the month of November 2017

Name of DIC	Demand/ Injection Zone	PoC Charges	Reliability Support Charges	HVDC Charges	Total
Arunachal Pradesh	Arunachal Pradesh	29681285.68	3931104.12	1208112.79	34820502.58
ASEB	Assam	326651724.1	26994181.1	8295892.09	361941797.31
Manipur	Manipur	35639029.61	4720170.73	1450609.93	41809810.26
MeECL	Meghalaya	18352497.03	6117667.05	1880090.58	26350254.67
Mizoram	Mizoram	31050345.23	2565970.36	788577.85	34404893.44
Nagaland	Nagaland	28077544.45	3231768.43	993191.9	32302504.79
Tripura	Tripura	22644765.26	7548462.43	2319804.76	32513032.44
HVDC BNC	Assam	334082.61	27608.26	8484.61	370175.49

Grid Disturbance Report

List of Important Grid Disturbances in N E Regional Grid during November 2017

1. At 17:03 Hrs on 03.11.2017, 132 kV Sarusajai - Kahilipara I, II & III lines tripped. It was restored at 17:25 hrs. Outage duration: 0:22 hrs. Load Loss: 136 MW, Generation Loss: 0 MW. Category- GD-I. Due to tripping of these elements, Kahilipara area of Assam Power System and Motonga area of Bhutan Power System were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.
2. At 12:14 Hrs on 09.11.2017, 220 kV Kopili - Misa I & III lines, 132 kV Badarpur - Khleihriat (PG) line & 132 kV NEHU - Mustem line tripped. It was restored at 12:44 hrs. Outage duration: 0:30 hrs. Load Loss: 25 MW, Generation Loss: 275 MW. Category- GD-II. Due to tripping of these elements, Khleihriat area of Meghalaya Power System, Khandong, Kopili and Umrangsho area of Assam Power System were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.
3. At 15:04 Hrs on 23.11.2017, 132 kV Dimapur(PG) - Kohima line tripped. It was restored at 16:29 hrs. Outage duration: 1:25 hrs. Load Loss: 16 MW, Generation Loss: 16 MW. Category- GD-I. Due to tripping of this element, Capital area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.

Annexures and Exhibits

A-1

Major Reservoirs Level of The Month

	FRL (mtr.)	MDDL (mtr.)	Nov 2017	Nov 2016
			Level in mtr/ft	Level in mtr/ft
KHANDONG	719.3	704	716.7	719.5
KOPILI	609.5	592.83	608.2	609.4
LOKTAK	768.5	766.2	768.7	769.2
BARAPANI	3220 ft	3150 ft	3214.0	3176.6
GUMTI	93.55	83.6	92.9	90.2
DOYANG	333	306	320.4	324.5

A-2

Frequency Analysis For The Month of November 2017

Frequency	Freq. (in Hz.)	Date (D.M.Y)
1. Maximum Frequency	50.27	19.11.2017
2. Minimum Frequency	49.62	07.11.2017
3. Monthly Average	49.97	

Frequency in Hz as %age of Time for the Blocks

f < 49.90	49.90 < f < 50.05	f > 50.05
16.91	73.53	9.56

Daily Frequency Variation Index (FVI):

Date	FVI	Date	FVI
01-11-2017	0.031	17-11-2017	0.070
02-11-2017	0.089	18-11-2017	0.053
03-11-2017	0.065	19-11-2017	0.051
04-11-2017	0.056	20-11-2017	0.057
05-11-2017	0.033	21-11-2017	0.043
06-11-2017	0.128	22-11-2017	0.042
07-11-2017	0.156	23-11-2017	0.042
08-11-2017	0.062	24-11-2017	0.045
09-11-2017	0.052	25-11-2017	0.045
10-11-2017	0.061	26-11-2017	0.039
11-11-2017	0.045	27-11-2017	0.058
12-11-2017	0.047	28-11-2017	0.075
13-11-2017	0.067	29-11-2017	0.055
14-11-2017	0.070	30-11-2017	0.049
15-11-2017	0.046		
16-11-2017	0.049		

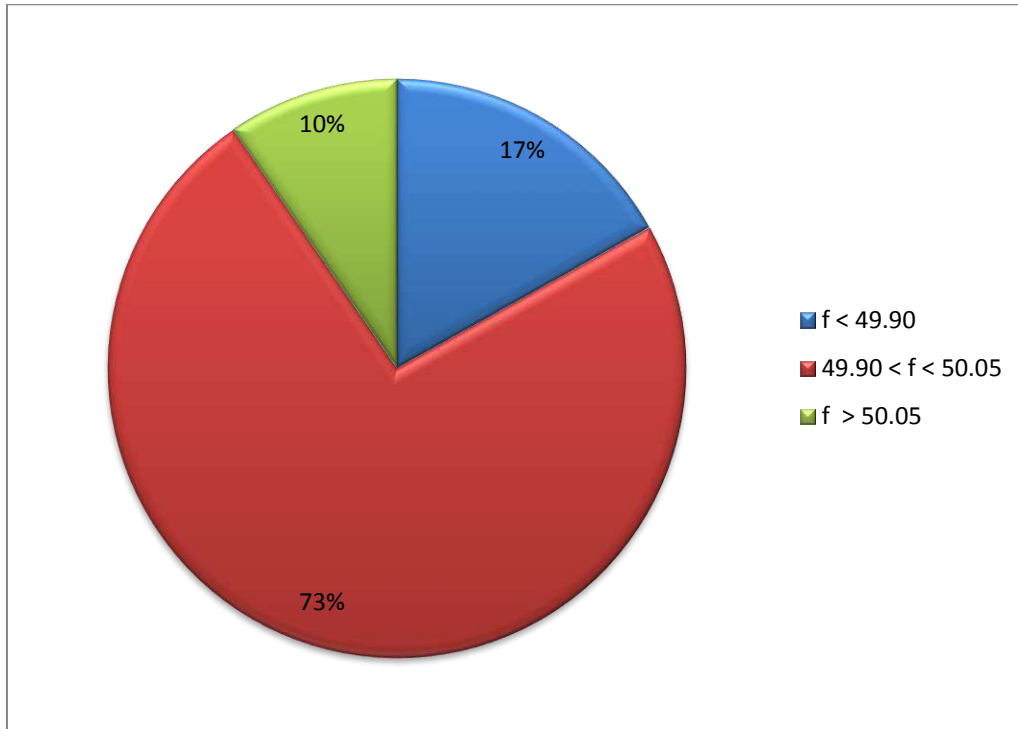
A-3

**Consolidated Scheduled Bilateral Exchanges in NE Region during November
2017**

Name of Trader	Energy at NER periphery (in MWH)
APPCPL	16936.21
IEX	540
OTPC	46800

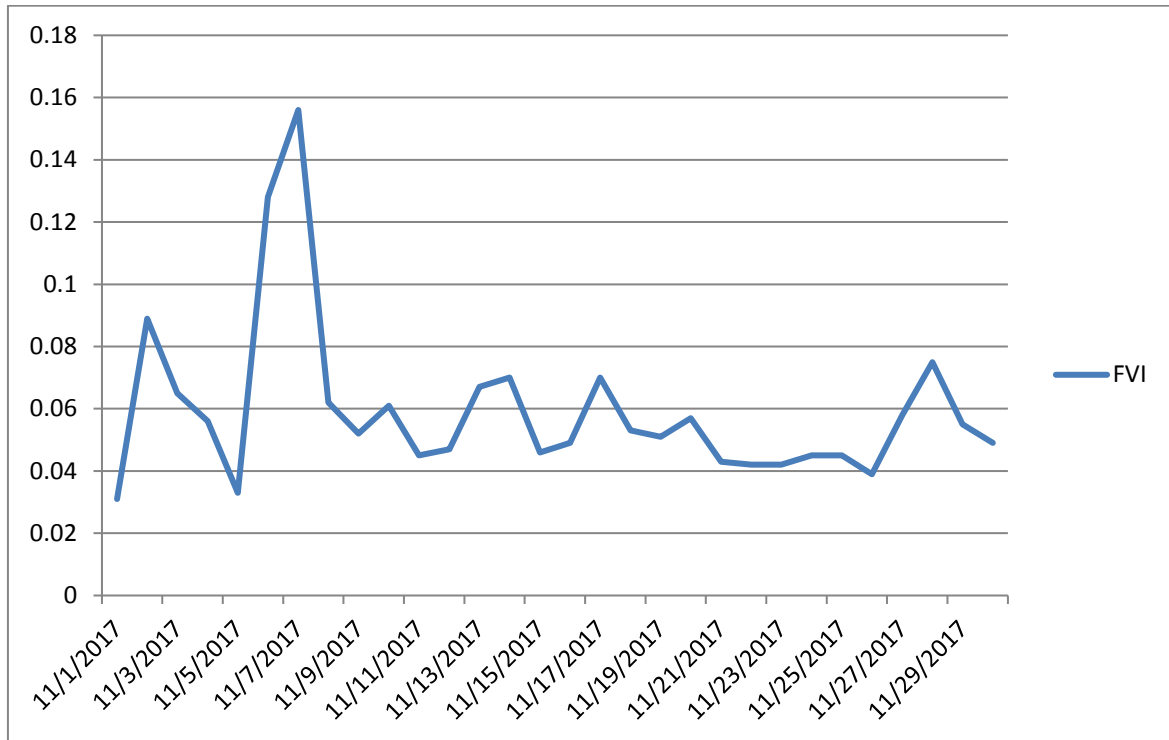
B-1

Frequency Duration for November 2017



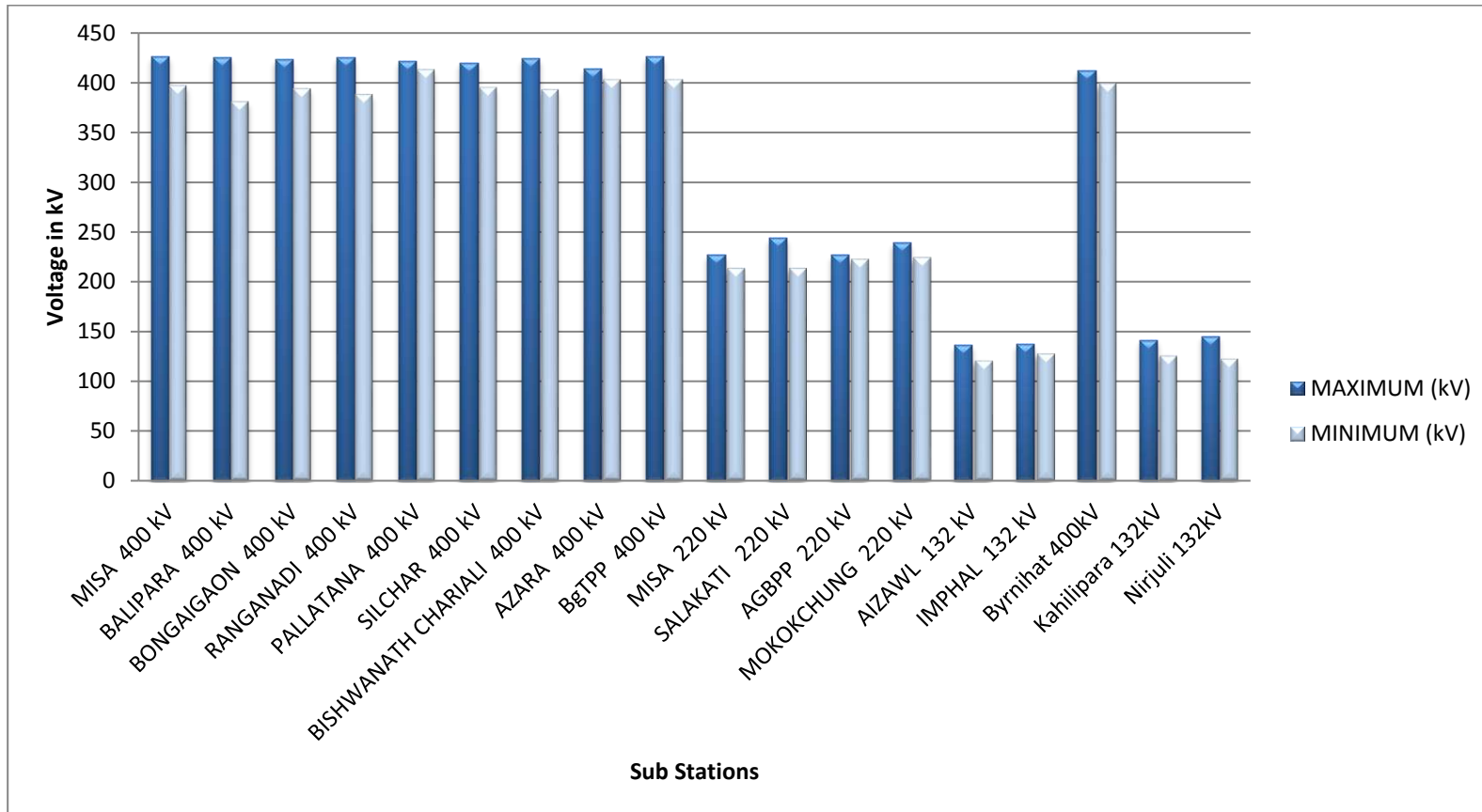
B- 2

FVI Characteristic for November 2017



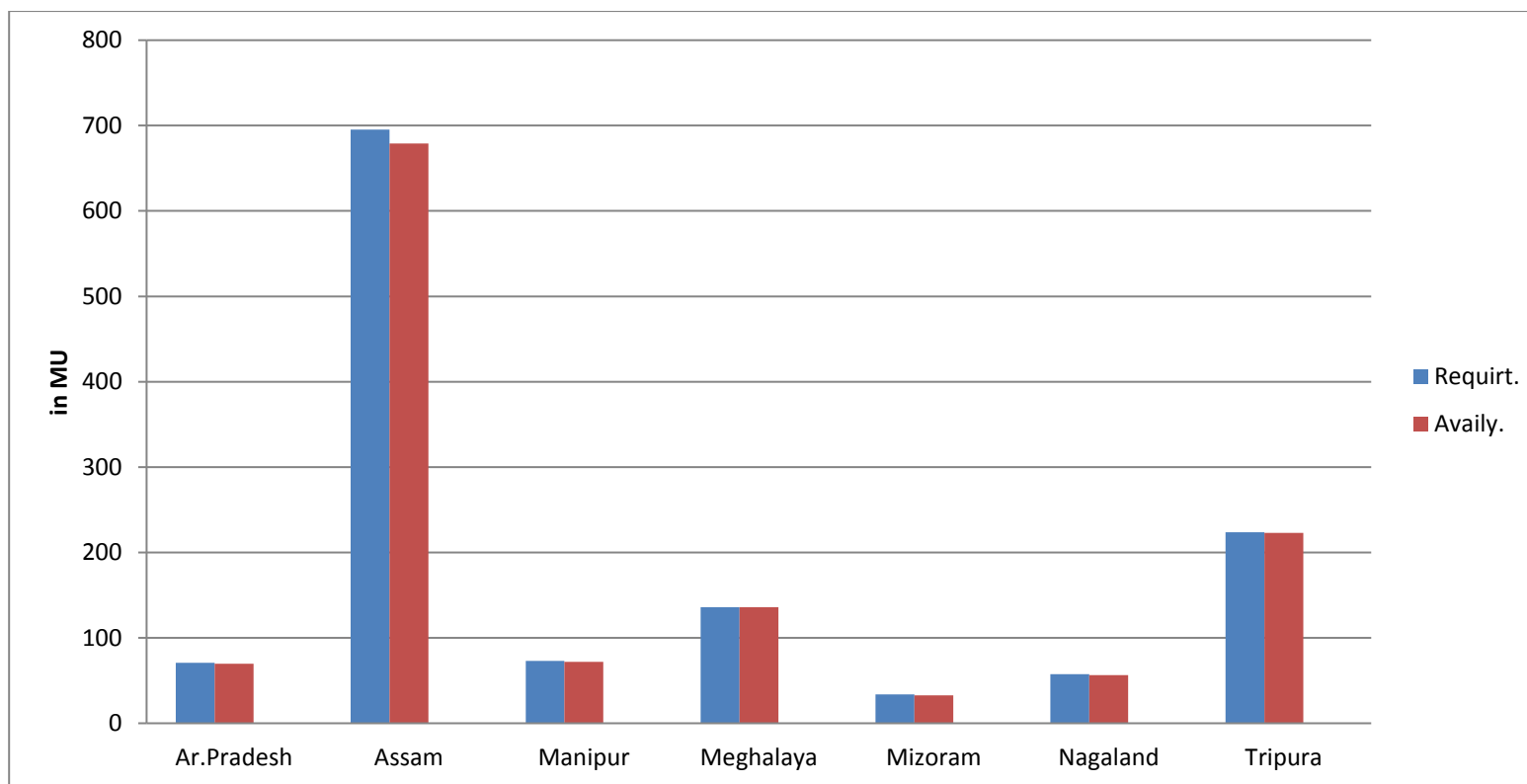
B-3

Voltage Variation Range for November 2017



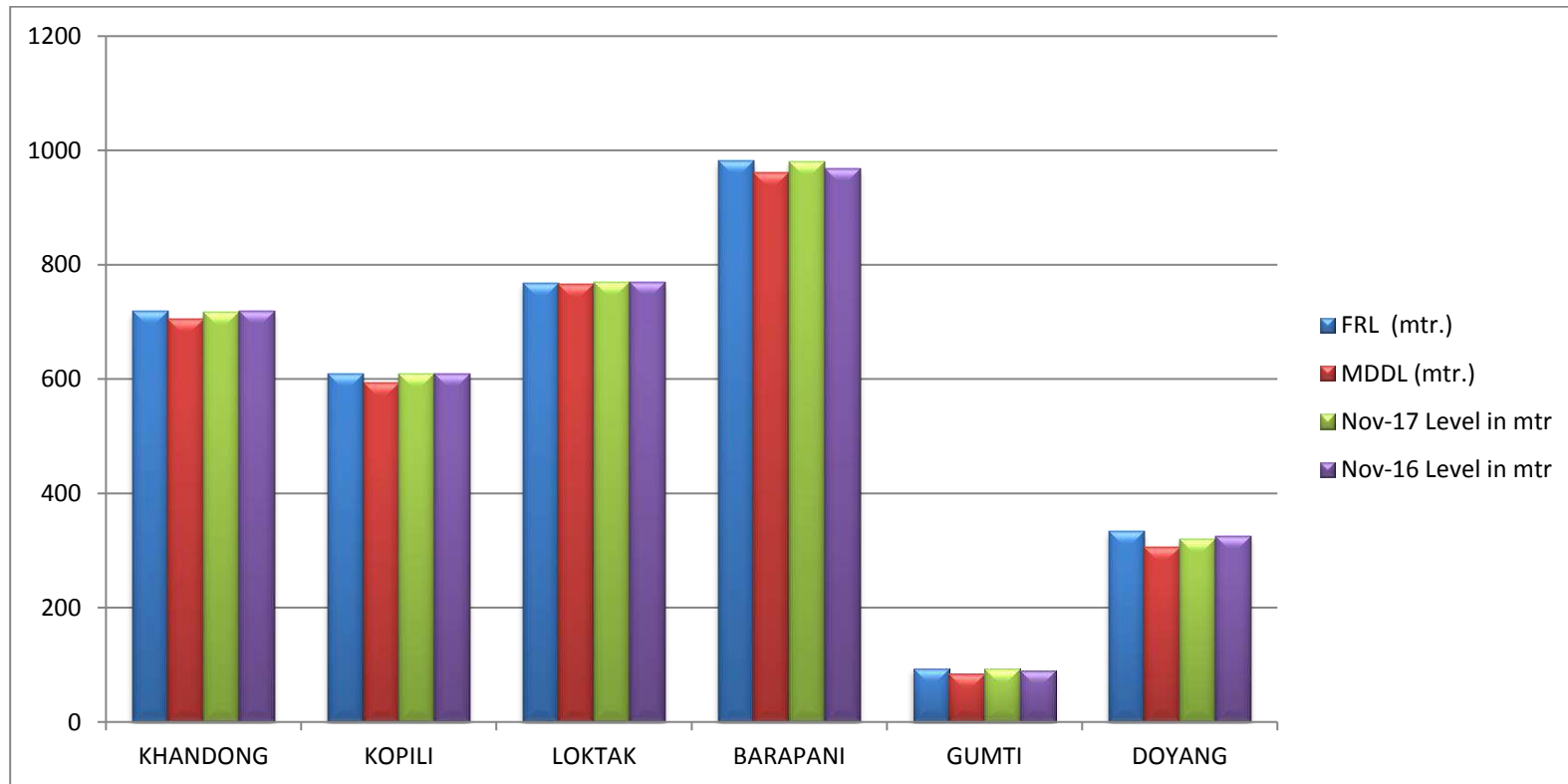
B-4

Energy Profile for November 2017



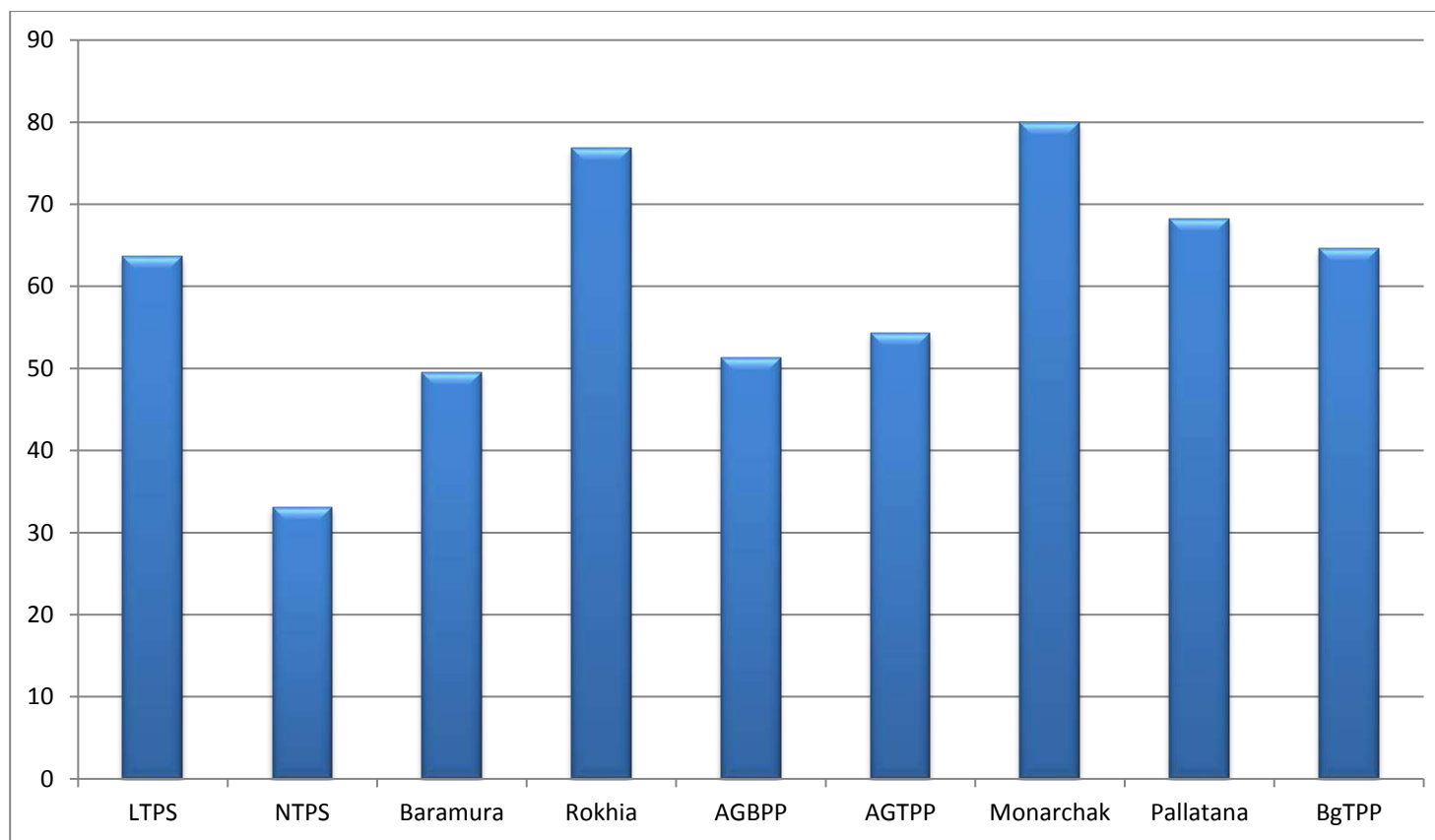
B-5

Reservoir Profile for November 2017



B-6

Station-wise Plant Load Factor for November 2017



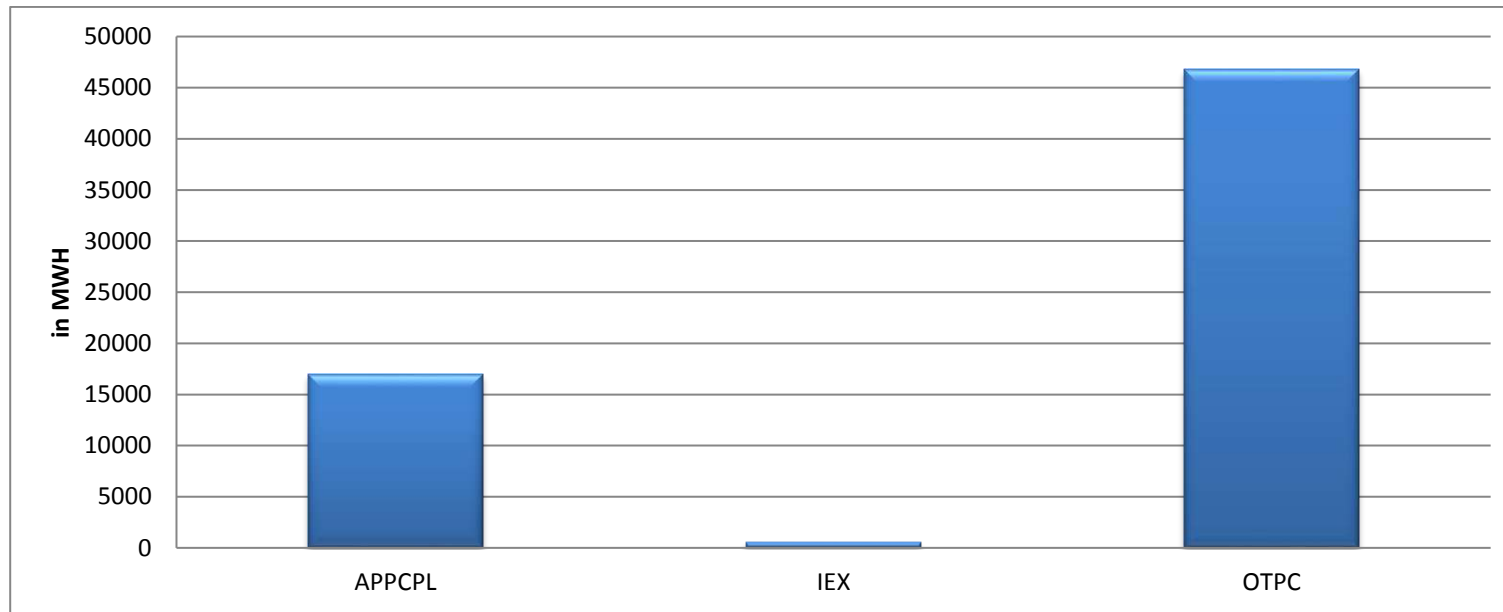
B-7

Collective Transaction through IEX Power Exchange November 2017



B-8

Consolidated SEB in NE Region for the month of November 2017





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Progress Report for the month of December 2017

Government of India
Ministry of Power
North Eastern Regional Power Committee
Shillong

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Brief highlights of North Eastern Regional Power System for the month of December 2017

- The maximum unrestricted demand during the month of December 2017 was 2333 MW, which was 2443 MW in the month of November 2017. The peak demand met in NER during the period under review was 2314 MW, which was 2380 MW in the previous month.
- The energy requirement during the month of December 2017 was 1284.39 MU, which was 1290.19 MU in the month of November 2017. The energy availability in NER during the period under review was 1258.75 MU, which was 1268.92 MU in the previous month.
- The maximum, minimum & average system frequencies were 50.25 (03.12.17), 49.70 (04.12.17) & 49.98 Hz respectively. The maximum, minimum & average FVI were 0.108, 0.033 & 0.052 respectively. The average FVI was less than its previous month's figure of 0.059. (Refer Annex-II).
- Maximum export of power from NER to ER was 0 MW and that from ER to NER was 1254 MW (on 20.12.17 at 17:00 Hrs). The same Inter-Regional Exchanges of NER with NR and vice versa were 401 MW (on 05.12.17 at 19:30Hrs.) and 851 MW(on 05.12.17 at 16:00Hrs.) respectively. Total net energy import during the month was -98.32 MU (379.68 MU from ER and -478 MU from NR).

Salient Features of North Eastern Regional Grid for December 2017

1	New Unit/Transmission Line/Transformer commissioned during this month		
2	Number of major grid disturbance during this month		
		Dec-17	Dec-16
3	Installed Capacity of the Region (in MW)		
	(i) Grid	3707.00	3496.00
	(ii) Isolated	125.00	124.00
	Total (As on 30.12.2017)	3832.00	3620.00
4	Energy Generation in MU (Gross):		
	Thermal/Gas	852.96	750.53
	Hydel	358.93	273.46
	Solar	0.60	0.60
	Total	1212.49	1024.59
5	Demand in MW:		
	Registered Peak Demand	2333	2245
	Peak Demand Met	2314	2223
	Shortage (%age)	0.82	0.99
6	Regional Energy (Gross) in MU:		
	Energy Requirement	1284.39	1199
	Energy Availability	1258.75	1146
	Surplus (+)/Deficit(-) (%age)	-2.04	-4.62
7	Inter Regional Energy Exchange in MU:		
	NER -----> ER	5.12	184.6
	ER -----> NER	384.8	40.5
	NER -----> NR	478.0	18
	NR -----> NER	0	324
	Net Import	-98.32	161.9
8	Frequency Profile:		
	Average Frequency (Hz)	49.98	49.93
	Average Frequency Variation Index	0.052	-

Monthly Power Supply Position

1. Energy Generation In The Region For the Month of December 2017

All figures in MU

Constituents	Hydro		Coal/Oil fired		Gas Based (OC/CC)		Solar		Total (Gen)	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net
	A	B	C	D	E	F	G	H	I	J
State Sector :										
Assam	27.91				93.12				121.03	
Meghalaya	47.99								47.99	
Mizoram	0								0	
Tripura	3.94				50.24				54.18	
Nagaland	7.19								7.19	
Total (S. Sector)	87.03				143.36		0		230.39	
Central Sector :										
NEEPCO:										
Khd+Kop+Kop-II	136.9								136.9	
Kathalguri (AGBPP)					120.9				120.9	
RC Nagar					58.3				58.3	
Doyang	8.0								8.0	
Ranganadi	50.1								50.1	
Monarchak					52.9		0.6		53.5	
NHPC:										
Loktak	76.9								76.9	
OTPC:										
Pallatana Gas PP					350.0				350.0	
NTPC:										
BgTPP			127.5						127.5	
Total (C. Sector)	271.9		127.5		582.1		0.6		982.1	
Total NER	358.93		127.5		725.46		0.6		1212.49	

2. Requirement Vs Availability In The Region

STATES	ENERGY requirement (MU) at 50 Hz				POWER requirement (MW) at 50 Hz			
	<i>Availability & L/S at prevailing frequency</i>				<i>Availability & L/S at prevailing frequency</i>			
	Requirement	Availability	Shortfall	% Shortfall	Requirement	Availability	Shortfall	% Shortfall
Ar. Pradesh	71.93	71.91	0.02	0.03	141.04	136	5.04	3.71
Assam	686.68	685.44	1.24	0.18	1478.91	1452.60	26.31	1.81
Manipur	95.91	82.25	13.66	16.61	193.63	186.74	6.89	3.69
Meghalaya	149.49	148.24	1.25	0.84	368.82	368.16	0.66	0.18
Mizoram	47.93	47.91	0.02	0.04	103.94	95.00	8.94	9.41
Nagaland	65.55	64.48	1.07	1.66	155.18	127.18	28	22.02
Tripura	166.91	158.52	8.39	5.29	259.13	258.50	0.63	0.24
REGION	1284.39	1258.75	25.64	2.04	2333	2314	19	0.82

3. Estimation Of Peak Demand (In MW)

Constituents	Peak Demand Met	Date	Freq (Hz)	Estimated Peak Demand at 50 Hz
Arunachal Pradesh	136	17.12.17	49.99	141
Assam	1453	08.12.17	49.97	1479
Manipur	187	27.12.17	50.02	194
Meghalaya	368	21.12.17	49.94	369
Mizoram	95	13.12.17	50.02	104
Nagaland	127	16.12.17	50.00	155
Tripura*	223	18.12.17	50.08	223
REGION	2314	21.12.17	49.93	2333

4. Estimation of Energy Requirement (In MU)

Constituents	Generation	Energy Drawal from Grid		Energy Availability	Actual Requirement
		Schedule	Drawal		
Arunachal Pradesh	0	58.21	71.91	71.91	71.93
Assam	121.03	549.99	563.16	685.44	686.68
Manipur	0	85.82	82.25	82.25	95.91
Meghalaya	47.99	104.67	100.73	148.24	149.49
Mizoram	0	38.31	32.22	47.91	47.93
Nagaland	7.19	53.70	57.36	64.48	65.55
Tripura	54.18	54.86	53.99	158.52	166.91
REGION	230.39	945.56	961.62	1258.75	1284.39

*Tripura(excluding Bangladesh)

Station-Wise Energy Generated (MU) and Peak Generation (MW)

S. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Dec-17	Dec-16
(i) STATE SECTOR : HYDRO					
ASSAM : HYDRO					
1	LANGPI U-1	50	50	10.10	7.8
2	LANGPI U-2	50	50	17.81	11.8
TOTAL		100	100	27.91	19.60
MEGHALAYA : HYDRO					
3	UMIAM STAGE - 1 U-1	9	9	1.82	0.02
4	UMIAM STAGE - 1 U-2	9	9	2.53	1.25
5	UMIAM STAGE - 1 U-3	9	9	2.27	1.03
6	UMIAM STAGE - 1 U-4	9	9	2.51	1.02
7	UMIAM STAGE - 2 U-1	10	10	1.40	1.34
8	UMIAM STAGE - 2 U-2	10	14	3.05	0.35
9	UMIAM STAGE - 3 U-1	30	0	0	0
10	UMIAM STAGE - 3 U-2	30	29	11.82	6.48
11	UMIAM STAGE - 4 U-1	30	30	6.42	4.02
12	UMIAM STAGE - 4 U-2	30	30	8.23	2.68
13	UMTRU U-1	20	0	0	0
14	UMTRU U-2	20	0	0	0
15	UMTRU U-3	20	0	0	0
16	UMTRU U-4	20	0	0	0
17	MYNTDU-LESHKA U-1	42	42	0.59	0
18	MYNTDU-LESHKA U-2	42	42	3.11	4.96
19	MYNTDU-LESHKA U-3	42	42	3.63	0.62
20	SONAPANI	2	1	0.62	0.61
TOTAL		384	276	47.99	24.39
NAGALAND : HYDRO					
21	LIKIMRO - 1	8	8	3.27	2.06
22	LIKIMRO - 2	8	7	0.37	1.62
23	LIKIMRO - 3	8	8	3.55	1.45
TOTAL		24	23	7.19	5.13
MIZORAM : HYDRO					
24	SERLUI B U-1	4	0	0	1.72
25	SERLUI B U-2	4	0	0	0.91
26	SERLUI B U-3	4	0	0	0.92
TOTAL		12	0	0	3.55
TRIPURA : HYDRO					
27	GUMTI - 1	5	0	0	0
28	GUMTI - 2	5	5	2.84	2.58
29	GUMTI - 3	5	6	1.10	1.71
TOTAL		15	11	3.94	4.29
TOTAL STATE (HYDRO) :		535	410	87.03	56.96

Monthly Progress Report of December 2017

Sr. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Dec-17	Dec-16
(i) STATE SECTOR : THERMAL/GAS					
MIZORAM : THERMAL					
1	BAIRABI U-1	6	0	0	0
2	BAIRABI U-2	6	0	0	0
3	BAIRABI U-3	6	0	0	0
4	BAIRABI U-4	6	0	0	0
TOTAL		24	0	0	0
TRIPURA : THERMAL					
5	BARAMURA - 1	5			
6	BARAMURA - 2	5			
7	BARAMURA - 3	6.5			
8	BARAMURA - 4	21	20	7.26	10.61
9	BARAMURA - 5	21	20	8.07	5.07
10	ROKHIA - 1	8			
11	ROKHIA - 2	8			
12	ROKHIA - 3	8	0	0	0
13	ROKHIA - 4	8	0	0	0
14	ROKHIA - 5	8	0	0	0
15	ROKHIA - 6	8	0	0	0
16	ROKHIA - 7	21	22	12.39	14.48
17	ROKHIA - 8	21	21	11.20	13.17
18	ROKHIA - 9	21	21	11.32	10.20
TOTAL		169.5	104	50.24	53.53
MEGHALAYA PRIVATE : THERMAL(COAL)					
19	Maithon Alloy Ltd.	15	0	0	0
19	Shyam Century	14	0	0	0
20	Adhunik Cement	25	0	0	0
TOTAL		54	0	0	0
ASSAM : THERMAL					
21	LTPS - 1	15	15	8.08	0
22	LTPS - 2	15	16	2.39	10.31
23	LTPS - 3	15	16	15.14	0
24	LTPS - 4	15	15	12.80	10.62
25	LTPS - 5	20	20	11.06	14.26
26	LTPS - 6	20	22	15.24	0
27	LTPS - 7	20	0	0	14.70
28	LTPS - 8	37	0	0	13.90
29	NTPS - 1	20	20	9.96	11.17
30	NTPS - 2	21	21	0	3.68
31	NTPS - 3	21	21	11.88	10.69
32	NTPS - 4	11	10	1.4	0
33	NTPS - 5	24	0	0	6.81
34	NTPS - 6	22	11	5.17	5.24
35	DLF	25	0	0	0
TOTAL		301	187	93.12	101.4
TOTAL STATE (THERMAL/GAS) :		561.5	291	143.36	154.93
TOTAL STATE GEN (HY+TH/GAS)		1096.5	701	230.39	211.89

S. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Dec-17	Dec-16
(ii) CENTRAL SECTOR : HYDRO					
1	KHANDONG - 1	25	26	3.8	5.1
2	KHANDONG - 2	25	26	4.3	5.0
3	KOPILI Stg - II	25	28	6.4	0.6
4	KOPILI - 1	50	50	27.7	24.3
5	KOPILI - 2	50	54	34.2	26.3
6	KOPILI - 3	50	53	28.5	16.4
7	KOPILI - 4	50	53	32.0	17.2
8	DOYANG - 1	25	23	4.1	2.9
9	DOYANG - 2	25	0	0.0	2.5
10	DOYANG - 3	25	24	3.9	2.8
11	LOKTAK - 1	35	36	25.5	23.8
12	LOKTAK - 2	35	36	25.7	24.5
13	LOKTAK - 3	35	36	25.7	24.5
14	RANGANADI - 1	135	145	13.8	13.5
15	RANGANADI - 2	135	142	18.4	13.6
16	RANGANADI - 3	135	138	17.9	13.3
TOTAL CS HYDRO :		860	870	271.9	216.5
(ii) CENTRAL SECTOR : THERMAL/GAS					
1	KATHALGURI - 1	34	32	1.5	1.8
2	KATHALGURI - 2	34	31	5.6	22.2
3	KATHALGURI - 3	34	33	20.0	16.2
4	KATHALGURI - 4	34	32	19.0	18.4
5	KATHALGURI - 5	34	32	19.3	12.7
6	KATHALGURI - 6	34	32	22.5	12.7
7	KATHALGURI - 7	30	25	2.1	9.7
8	KATHALGURI - 8	30	24	14.2	14.7
9	KATHALGURI - 9	30	27	16.7	10.2
10	R.C. NAGAR - 1	21	22	9.7	15.5
11	R.C. NAGAR - 2	21	21	8.2	14.3
12	R.C. NAGAR - 3	21	22	10.4	15.0
13	R.C. NAGAR - 4	21	22	9.7	14.4
14	R.C. NAGAR - 5	23	24	8.7	10.5
15	R.C. NAGAR - 6	23	23	11.6	11.5
16	MONARCHAK SOLAR PV	5	5	0.6	0.6
17	MONARCHAK - GTG 1	65.5	46	35.4	8.4
18	MONARCHAK - STG 1	35.5	36	17.5	0
19	PALLATANA - GTG 1	232	217	83.6	80.8
20	PALLATANA - STG 1	131	113	56.4	42.9
21	PALLATANA - GTG 2	232	240	130.6	88.2
22	PALLATANA - STG 2	131	129	79.4	48.6
23	BgTPP - 1	250	243	127.5	136.1
24	BgTPP - 2	250			

Monthly Progress Report of December 2017

25	BgTPP - 3				
TOTAL CS (THERMAL/GAS) :		1505	1390	710.2	596.2
TOTAL CS GEN (HY+TH/GAS)		2365	2260	982.1	812.7
TOTAL NER GEN (HY+TH/GAS)		3461.5	2961	1212.49	1024.59

Plant Load Factor (PLF)

PLANT LOAD FACTOR OF THE THERMAL/GAS STATIONS IN N.E.R.					
S. No.	Power Station	State/Constituent	Installed Capacity (MW)	Generation (in MU)	Stationwise PLF(%)
1	LTPS*	AEGCL	157.00	64.70	69.2
2	NTPS*	AEGCL	119.00	28.42	39.0
3	Baramura	Tripura	42.00	15.33	49.05
4	Rokhia	Tripura	95.00	34.92	82.21
5	AGBPP	NEEPCO	291.00	120.9	53.80
6	AGTTP	NEEPCO	130.00	58.3	56.92
7	Monarchak	NEEPCO	102.00	52.9	70.41
8	Pallatana	OTPC	727.00	350.0	64.11
9	BgTTP	NTPC	500.00	127.5	68.12

*LTPS -- Lakwa Thermal Power Station; *NTPS -- Namrup Thermal Power Station

Voltage Profile

1. Maximum and Minimum Voltage (KV) Of Important Substations

S. No.	NAME of SUB-STATION	MAXIMUM (kV)	MINIMUM (kV)
1	MISA 400 kV	421	395
2	BALIPARA 400 kV	424	391
3	BONGAIGAON 400 kV	420	392
4	RANGANADI 400 kV	420	388
5	PALLATANA 400 kV	422	401
6	SILCHAR 400 kV	418	396
7	BISHWANATH CHARIALI 400 kV	410	382
8	AZARA 400 kV	412	400
9	BgTPP 400 kV	424	396
10	MISA 220 kV	227	213
11	SALAKATI 220 kV	244	214
12	AGBPP 220 kV	234	198
13	MOKOKCHUNG 220 kV	236	226
14	AIZAWL 132 kV	136	121
15	IMPHAL 132 kV	137	128
16	Byrnihat 400kV	418	392
17	Kahilipara 132kV	141	126
18	Nirjuli 132kV	141	123

2. Voltage Range In KV as Percentage Of Time For The Block

SUB-STATION	kV < 360	360 < kV < 380	380 < kV < 420	kV > 420
MISA	0.00	0	98.30	1.69
BALIPARA	0.01	0	99.99	0
BONGAIGAON	0.94	0	99.06	0.89
PALATANA	0	0	94.60	5.40
SILCHAR	0	0	100.00	0
Azara	0.01	0	99.99	0
Biswanath Charali	0	0	100.00	0
BgTPP	0	0	80.61	19.39
Byrnihat	0	0	100.00	0

Inter-Regional Energy Exchange, Major Grid Disturbance and Meetings held by NERPC

1. Inter-Regional Energy Exchange

All Fig. in MU

N E R to E R	5.12
E R to N E R	384.8
NET IMPORT FORM E R	379.68
N E R to N R	478
N R to N E R	0
NET IMPORT FROM N R	-478
NET IMPORT	-98.32

2. Major Grid Disturbances:

None.

3. Meetings Held by NERPC:

Sr. No.	Meeting	Date	Venue
1.	139 th OCC Meeting	19.12.2017	Guwahati

Status of Progress

1. Generating Projects in NER

Progress of Thermal Power Generation Projects in NER					
Central Sector					
Sr. No.	Plant	Units	Capacity in MW	Commissioning Schedule	Remarks
1	NTPC Bongaigaon	3rd		Jul-17	<ul style="list-style-type: none"> Boiler Drum Lifting Feb'13 & Boiler Hydro test Mar'14 Next Milestone : Boiler Light Up Nov'16

Progress of Hydro Power Generation Projects in NER					
Central Sector					
Sr. No.	Plant	Units	Capacity in MW	Commissioning Schedule	Remarks
1	Subhansiri Lower (Ar. Pradesh/NHPC)	8	8x250	Syn. Comm: 2016-18	<ol style="list-style-type: none"> Signing of MoU with State Government of Assam Law & Order problem Issue of Downstream Impact Assessment & demand for stoppage of works by anti-dam activists. Since 16.12.2011 work.
2	Kameng (Ar. P/NEEPCO)	4	4x150	Mar-18	Work in Progress
3	Pare (Ar. P/NEEPCO)	2	2x55	Mar-18	Work in Progress
4	Demwe Lower (Ar. P)	6	5x342; 1x40	2016-17	
State Sector					
1	Ganol SHP (MePGCL)	3	3x7.5	Oct-15	LOI issued on 22nd Dec,2012. Work Order is being issued.
3	Lakroh MHP (MePGCL)	1	1.5		Delayed due to rain.

2. Transmission Lines In NER

Progress of Transmission Lines in NER					
POWERGRID					
Sr. No.	Name of Lines	Total length in Km	Target Date		Remarks
			Scheduled	Revised	
1	400 kV Kameng-Balipara D/C	144	Aug-13	Mar-18	ATS slowed down to the extent possible to match with generation of Kameng.
2	400 kV Lower Subansiri-Biswanath Chariyali D/C I	335	Aug-13	Mar-18	Completion matching with Gen.(Sch. uncertain).Works Standstill on account of local disturbance/agitation against big dam. Generation schedule uncertain.
3	400 kV Lower Subansiri-Biswanath Chariyali D/C II	348	Aug-13	Mar-18	Completion matching with Gen.(Sch. uncertain).Works Standstill on account of local disturbance/agitation against big dam. Generation schedule uncertain.
4	400 kV Silchar-Melriat(New) D/C (Charged at 132 kV)	248	Dec-12	Feb-18	Major portion of line in forest. severe ROW in vicinity of Aizawl town due to stiff resistance from influential local owner. Package re-awarded in Jun'16.
5	400 kV D/C Jigmeling - Alipurduar TL	-	Jan-18	Mar-19	Work in Progress
6	132 kV Melriat (New) - Sihhmui	-	Dec-12	Feb-18	
7	Phulbari (Meghalaya) - Ampati	-	Sep-19	Sep-19	
8	LILO of 132 kV Ranganadi-Nirjuli at Pare	-		Oct-17	
9	132 kV Tezu-Namsai S/C	96	Dec-12	Feb-18	Progress affected due to severe ROW Problem.
10	132KV D/C Interconnecting Silchar-Melriat T/L using 220 KV Towers	-	Mar-17	June-17	
TSECL					
11	132 kV Monarchak-Surajmani Nagar D/C	50	Jun-14	Mar-17	Work in Progress
12	132 kV Surjyamani	6		Aug-16	Fund proposed in World

Monthly Progress Report of December 2017

	Nagar-Badarghat D/C				Bank.
13	132 kV Surjyamani Nagar(TSECL)-Rokhia DC	32.32	Nov-14	Mar-14	3.598 km line in forest land for which TSECL will supply for forest clearance. LOA issued.
14	132 kV Gamai Tilla - Dhalabil	31		Sep-13	ROW problems affected the work
15	132 kV P K Bari - Kanchanpur	47		Mar-15	All works completed in non forest land. Stage I clearance received and compliance for conditions completed.
MePTCL					
16	132 kV Rongkhon-Ampati D/C	1		Dec-17	
MeECL					
17	LILO of 132 kV Mawlai-Cherrapunjee at Mawngap	10		Mar-18	Work held up due to ROW problem. The PHED,GOMe has complained and filed and FIR against Loc No. 3 to 8. Overall status is 90% completed.
18	LILO of 132 kV NEIGRIHMS - Khliehriat at Lad Nongkrem	6		Dec-17	Delay in supply of materials for line by the vendor.
19	LILO of 132 kV Rongkhon - Ampati at Praharinagar	20		Sep-18	Survey works for 132 kV LILO is completed. LOA for the LILO is yet to be awarded.
Mizoram					
20	132 kV Tural-Aizawl	12		Mar-14	
AEGCL					
21	BTPS - Rangia D/C line	326.374	Mar-13	Mar-18	1. Overall 89%completed.A. All normal foundation completed. B. 5 nos. of Pile foundation completed.
22	LILO of one Ckt. of Samaguri - Sarusajai D/C line at Sonapur sub-station	26.624	Dec-13	Mar-18	Water logging & harvesting are reasons to be attributed for delaying.
23	132 kV DC Sonapur-Jagiroad Tr. Line.	51.75	Nov-13	Mar-18	Compensation/ROW Issue.
24	132 kV DC Sonapur-Chandrapur Tr. Line	28.438	Nov-13	Mar-18	Railway X'ing/ ROW/ Compensation issue.
26	Agia- Sonapur (Hatchingmari) S/C line on D/C tower	102.51	April -17		

Commercial Status

1. Entitlement, Schedule, Drawal and DSM Charges for the month of December 2017

Name of states	Entitlement from ISGS in NER (in MU)	Entitlement from ISGS in ER (in MU)	Total Entitlement (in MU)	Scheduled energy against entitlement (in MU)	Schedule Drawal (for Dev A/c) (Ex-PP State) (in MU)	Actual Drawal from Grid (in MU)	Over Drawal (+) / Under Drawal (-) (in MU)	Dev Payable (-) / Receivable (+) (including additional deviation) (Rs. In Cr)
Arunachal Pradesh	56.75	3.45	60.20	58.21	58.21	71.91	13.69	-3.53
ASEB	496.09	96.67	592.75	550.49	549.99	563.16	13.16	-3.70
Manipur	102.98	0.00	102.98	79.31	85.82	82.25	-3.57	0.76
MeSEB	122.60	0.00	122.60	82.48	104.67	100.73	-3.94	0.88
Mizoram	49.75	2.53	52.28	49.84	38.31	32.22	-6.08	1.41
Nagaland	54.69	7.64	62.33	54.97	53.70	57.36	3.66	-0.96
Tripura	153.60	0.00	153.60	140.29	54.86	53.99	-0.88	-0.21
PGCIL-HVDC	1.52	0.00	1.52	0.86	0.86	0.54	-0.32	0.08

(Source: PSP, NERPC)

* In addition to total entitlement, bilateral exchanges and purchase/sell through traders/exchange are covered in Annexure-III.

2. Schedule for ISGS Generation for the month of December 2017

ISGS	Schedule (MU)	Injection (MU)
AGTCCPP	113.58	117.28
AGBPP	49.02	49.56
KOPILI - I HEP	74.51	76.22
KOPILI - II HEP	7.66	
KHANDONG HEP	119.55	

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DHEP	6.22	0.00
RHEP	7.38	7.93
LOKTAK HEP	53.68	57.72
OTPC, PALLATANA	334.46	339.56
BgTPP	230.61	242.14

Source: Revised PSP, NERPC.

3. Cumulative Wt. Average Share Allocation (%) (Up to this month) in CS Stations

States	Kopili (200 MW)	Kopili-II (25 MW)	Khandong (50 MW)	RHEP (405 MW)	DHEP (75 MW)	AGBPP (291 MW)	AGTCCPP (130 MW)	BgTPP (250 MW)	OTPC (726.6 MW)	Loktak HEP (105 MW)
Arunachal Pradesh	5.191	5.992	4.194	18.462	6.852	5.694	6.702	5.1325	3.0303	4.940
Assam	53.455	52.355	56.285	43.328	43.808	56.503	43.720	57.420	33.058	29.445
Manipur	7.395	6.945	6.555	8.373	7.865	8.105	8.225	7.505	5.7851	42.508
Meghalaya	17.395	13.675	16.905	11.505	11.455	11.815	12.633	10.980	10.882	0.000
Mizoram	4.610	6.040	3.940	5.700	5.250	5.410	6.0	5.415	3.0303	5.020
Nagaland	6.147	5.735	6.653	5.335	17.967	5.805	5.737	4.930	3.7190	6.435
Tripura	5.807	9.258	5.468	7.297	6.803	6.668	16.983	7.6175	26.9972	11.652
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	98.995	86.5019	100.00

4. Share Allocation (%) in CS Stations from Eastern Region

States	Farakka-I	Kahelgaon-I	Kahelgaon-II	Talcher	Farakka-III
Assam	2.455737%	2.104847%	5.093479%	2.095419%	0.000000%
Meghalaya	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%
Nagaland	0.429803%	0.424446%	0.000000%	0.424823%	0.000000%
Arunachal Pradesh	0.191917%	0.191747%	0.000000%	0.196898%	0.000000%
Mizoram	0.141736%	0.141610%	0.000000%	0.141736%	0.000000%
Assam (NVVN Coal Power)	0.091912%	0.091912%	0.091912%	0.091912%	0.091912%

5. Details of Fixed and Energy Charges of CS Stations for FY 2017-18

Projects	Installed Capacity (MW)	Design Energy (GWh)	Annual Fixed Charge (Crore)	Reference
KOPILI HEP	200	1186.14	109.8446	As per CERC order dated 13.01.2016 in petition No 46/GT/2015.
KOPILI - II	25	86.30	13.2283	As per CERC order dated 23.01.2012 in pet. No 298/2009

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KHANDONG HEP	50	277.61	40.3627	As per CERC order dated 13.01.2016 in petition No 42/GT/2015.
RHEP	405	1509.69	260.4693	As per CERC order dated 05.01.2016 and corrigendum 07.03.2016 in petition No.40/GT/ 2015.
DHEP	75	227.24	101.5605	As per CERC order dated 13.01.2016 and corrigendum dtd. 07.03.16 in petition No 43/GT/ 2015.
AGBPP	291	NA	296.5691	As per CERC order dated 15.02.2016 in Pet. No 459/GT/ 2014& 41/GT/2015. Base Rate of energy Charge as per the CERC Order
AGTPP	84	NA	71.7633	As per CERC order dated 11.03.2011 in Pet.No 299/2009,^Base Energy charge as per CERC order
LOKTAK HEP	105	448.00	107.1660	As per CERC order dated 22.10.2012 in RP No. 24/2011 in Pet.No 108/2010
PALLATANA	726.6	NA	899.0405	As per CERC order dated 30.03.2017 in Pet. No 129/GT/2015
BgTPP	250	NA	NA	

Regional Transmission Account (RTA) for the month of December 2017

Name of DIC	Demand/ Injection Zone	PoC Charges	Reliability Support Charges	HVDC Charges	Total
Arunachal Pradesh	Arunachal Pradesh	29681285.68	3931104.12	1208112.79	34820502.58
ASEB	Assam	326651724.1	26994181.1	8295892.09	361941797.31
Manipur	Manipur	35639029.61	4720170.73	1450609.93	41809810.26
MeECL	Meghalaya	18435319.55	6145275.31	1888575.19	26469170.05
Mizoram	Mizoram	31050345.23	2565970.36	788577.85	34404893.44
Nagaland	Nagaland	28077544.45	3231768.43	993191.9	32302504.79
Tripura	Tripura	22644765.26	7548462.43	2319804.76	32513032.44
HVDC BNC	Assam	334082.61	27608.26	8484.61	370175.49

Grid Disturbance Report

List of Important Grid Disturbances in N E Regional Grid during December 2017

1. At 02:08 Hrs on 03.12.2017, 132 kV Udaipur-Palatana line & 132 kV Monarchak-Udaipur line tripped. It was restored at 02:20 hrs. Outage duration: 0:12 hrs. Load Loss: 14 MW, Generation Loss: 101 MW. Category- GD-I. Due to tripping of these elements, Udaipur and Rabindranagar area was separated from rest of NER Grid and subsequently collapsed due to no source in those areas.
2. At 06:37:08 hrs both Gas Turbine Generators of Palatana run back started due to over frequency and finally GTG-1 & GTG-2 breakers tripped at 06:37:09 Hrs & 06:37:10 Hrs respectively on over frequency. STG-1 & STG-2 of Palatana tripped at 06:37:25 Hrs and 06:37:27 Hrs respectively on under-frequency. It was restored at 09:25 hrs. Outage duration: 2:48 hrs. Load Loss: 433 MW, Generation Loss: 841 MW. Category- GD-III. Due to tripping of Palatana Units, 132 kV Silchar - Srikona I & II, 132 kV Sihar - Hailakandi I & II lines, 132 kV Badarpur - Panchgram line tripped on SPS-1 at 06:37:27 Hrs and subsequently collapsed due to load generation mismatch.
3. At 16:37 Hrs on 31.12.2017, 400/132 kV ICT 1 & 2 at Ranganadi tripped. It was restored at 17:00 hrs. Outage duration: 0:23 hrs. Load Loss: 83MW, Generation Loss: 0 MW. Category- GD-I. Due to tripping of these elements, Ziro area, Lekhi area, Capital area of Arunachal Pradesh & Gohpur area of Assam were separated from rest of NER Grid and subsequently collapsed due to no source in this area.

Annexures and Exhibits

A-1

Major Reservoirs Level of The Month

	FRL (mtr.)	MDDL (mtr.)	Dec 2017	Dec 2016
			Level in mtr/ft	Level in mtr/ft
KHANDONG	719.3	704	714.0	713.6
KOPILI	609.5	592.83	602.2	603.1
LOKTAK	768.5	766.2	768.6	768.3
BARAPANI	3220 ft	3150 ft	3208.4	3183.9
GUMTI	93.55	83.6	92.5	91.5
DOYANG	333	306	318.9	318.5

A-2

Frequency Analysis For The Month of December 2017

Frequency	Freq. (in Hz.)	Date (D.M.Y)
1. Maximum Frequency	50.25	03.12.2017
2. Minimum Frequency	49.70	04.12.2017
3. Monthly Average	49.98	

Frequency in Hz as %age of Time for the Blocks

f < 49.90	49.90 < f < 50.05	f > 50.05
12.86	73.86	13.93

Daily Frequency Variation Index (FVI):

Date	FVI	Date	FVI
01-12-2017	0.045	17-12-2017	0.042
02-12-2017	0.042	18-12-2017	0.061
03-12-2017	0.048	19-12-2017	0.043
04-12-2017	0.053	20-12-2017	0.043
05-12-2017	0.042	21-12-2017	0.033
06-12-2017	0.044	22-12-2017	0.052
07-12-2017	0.039	23-12-2017	0.072
08-12-2017	0.039	24-12-2017	0.052
09-12-2017	0.075	25-12-2017	0.051
10-12-2017	0.060	26-12-2017	0.040
11-12-2017	0.049	27-12-2017	0.047
12-12-2017	0.074	28-12-2017	0.033
13-12-2017	0.108	29-12-2017	0.039
14-12-2017	0.072	30-12-2017	0.047
15-12-2017	0.081	31-12-2017	0.036
16-12-2017	0.037		

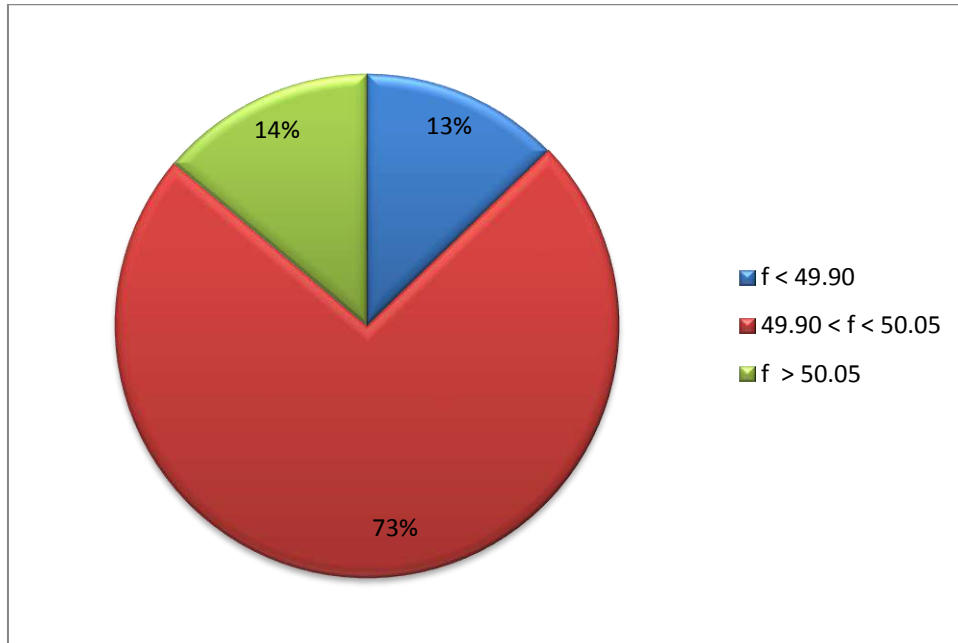
A-3

Consolidated Scheduled Bilateral Exchanges in NE Region during December
2017

Name of Trader	Energy at NER periphery (in MWH)
APPCPL	29488.56
GMR	230.40
IEX	520
MPPL	47492.97
NVVN	816.66
TPTL	200
OTPC	47331.25

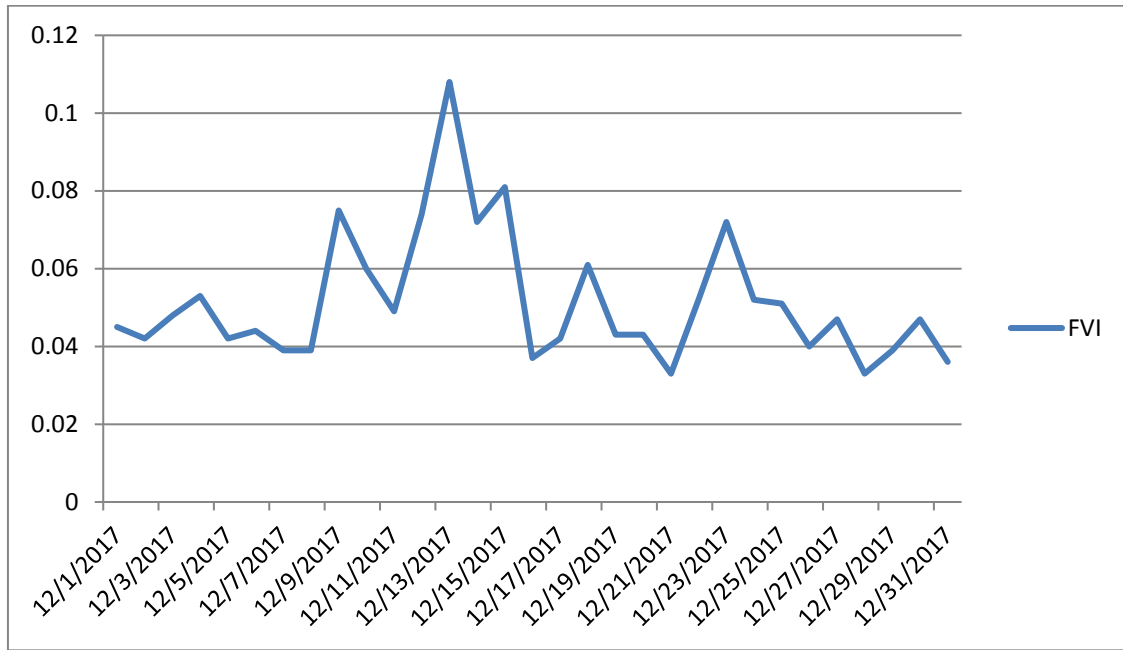
B-1

Frequency Duration for December 2017



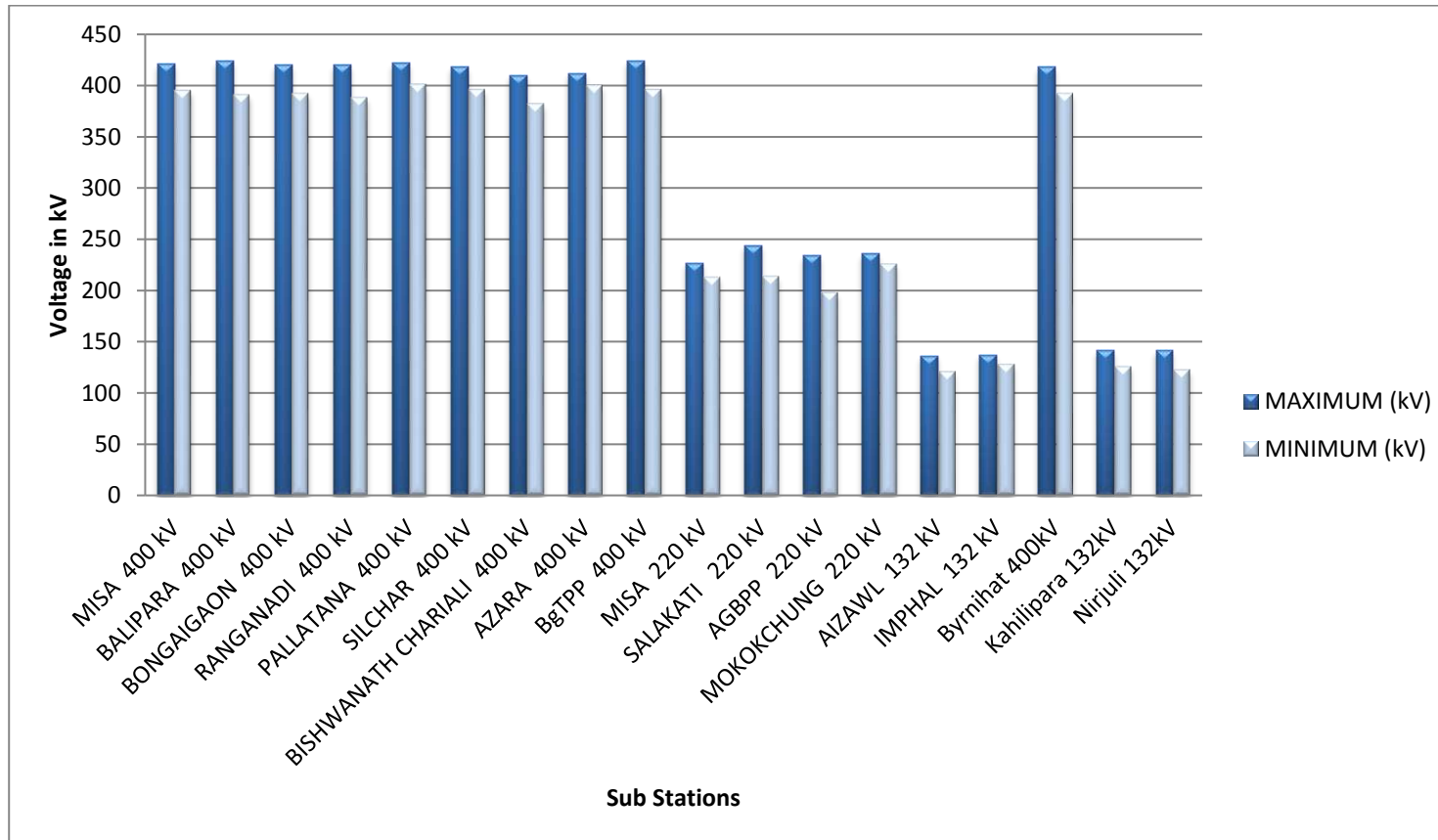
B-2

FVI Characteristic for December 2017



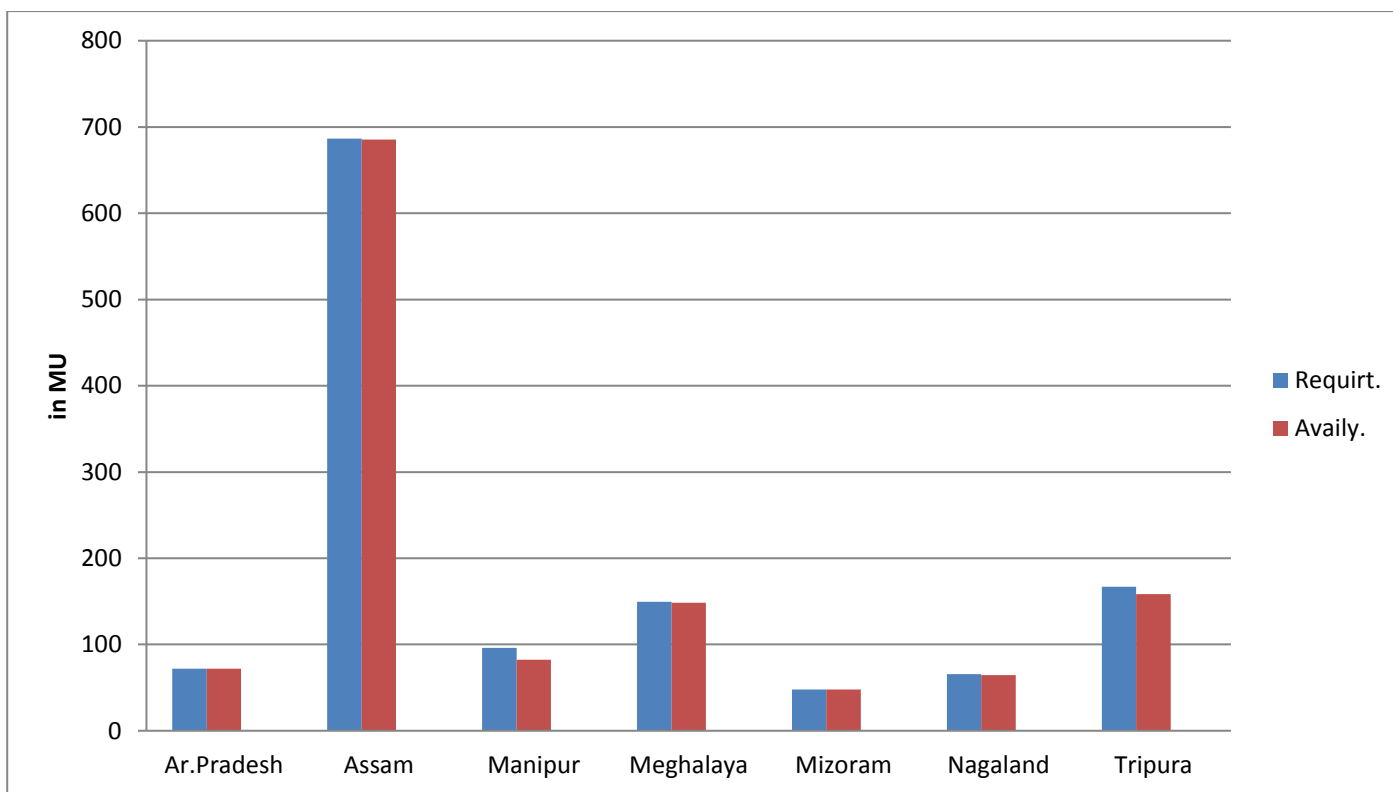
B-3

Voltage Variation Range for December 2017



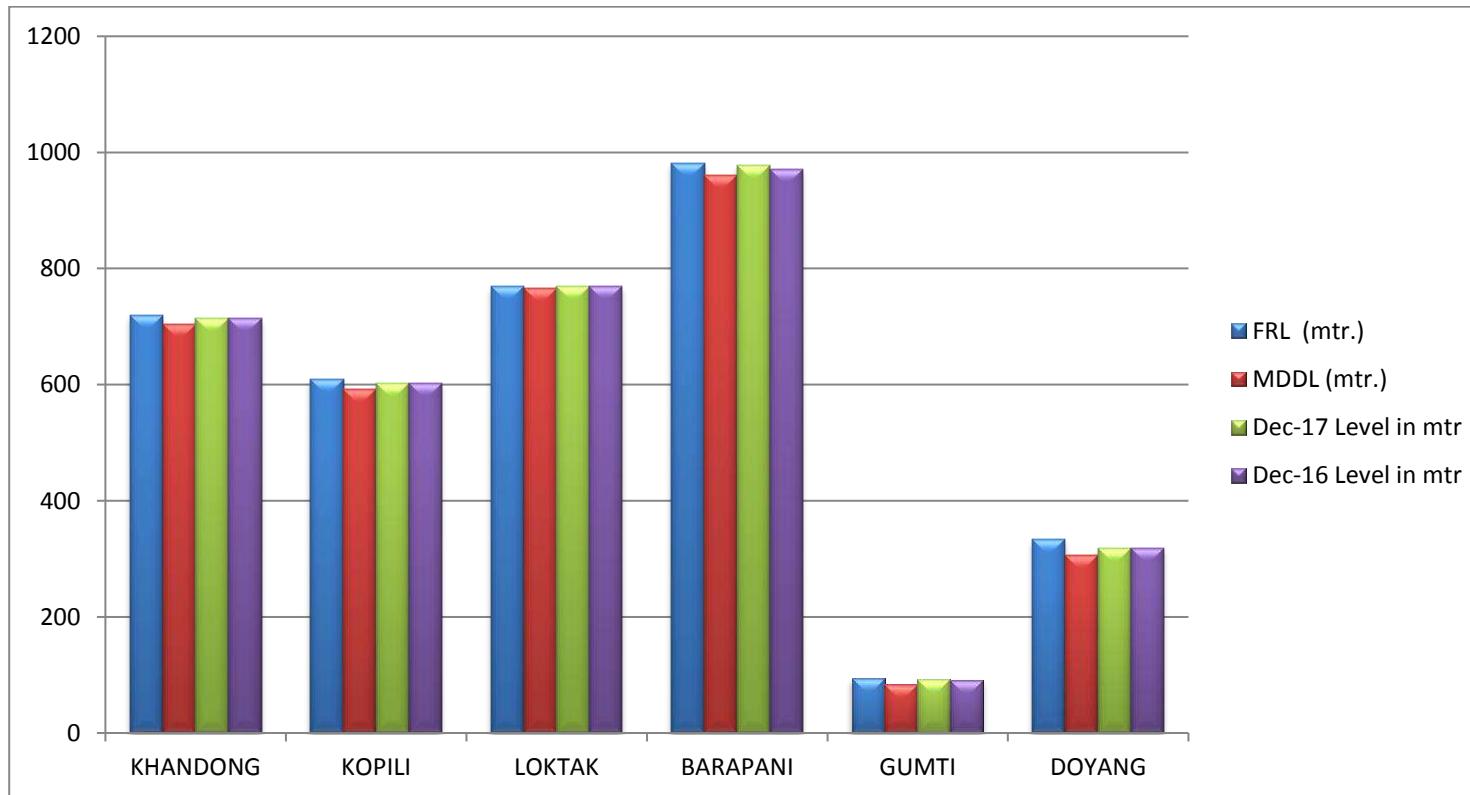
B-4

Energy Profile for December 2017



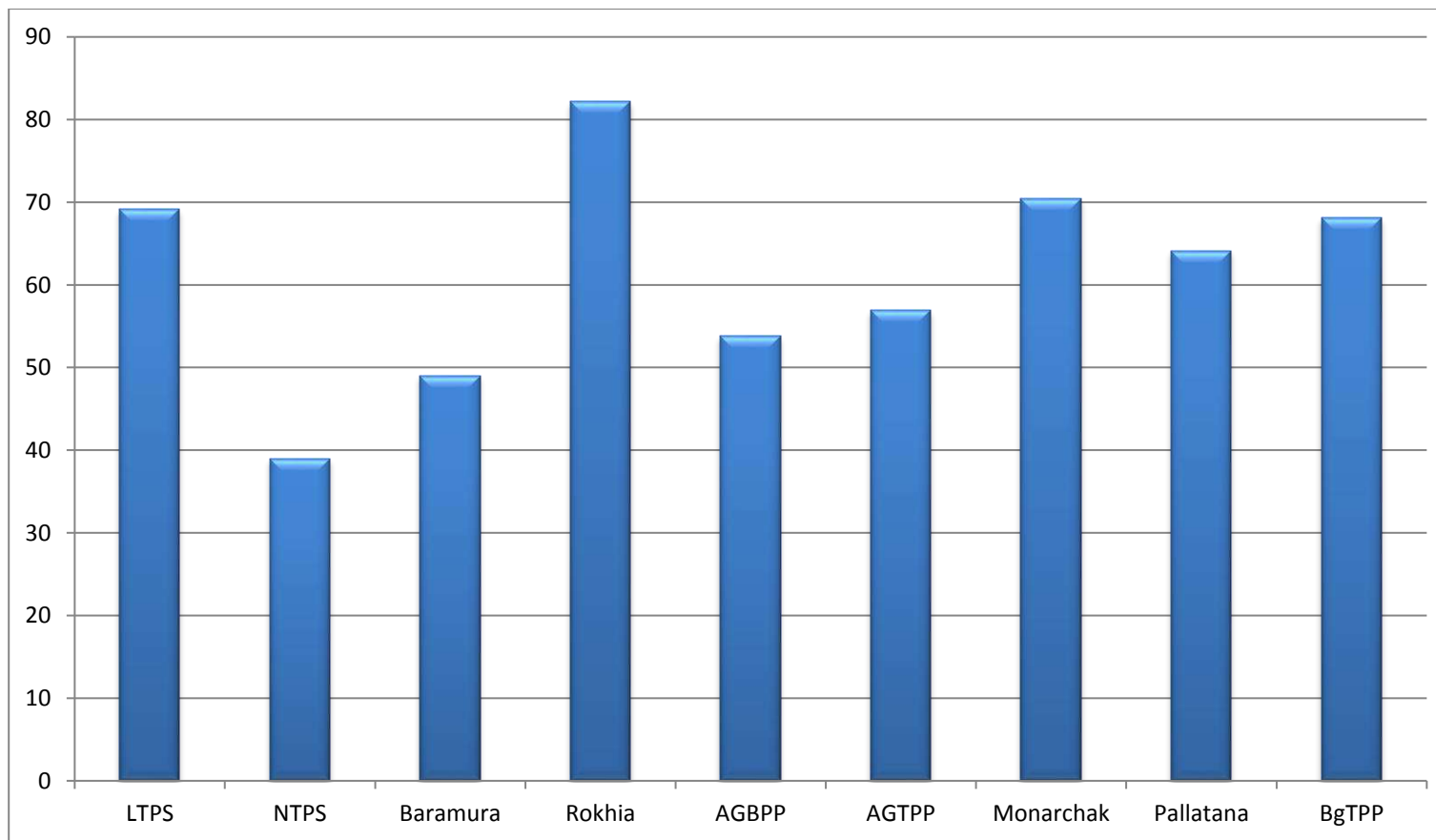
B-5

Reservoir Profile for December 2017



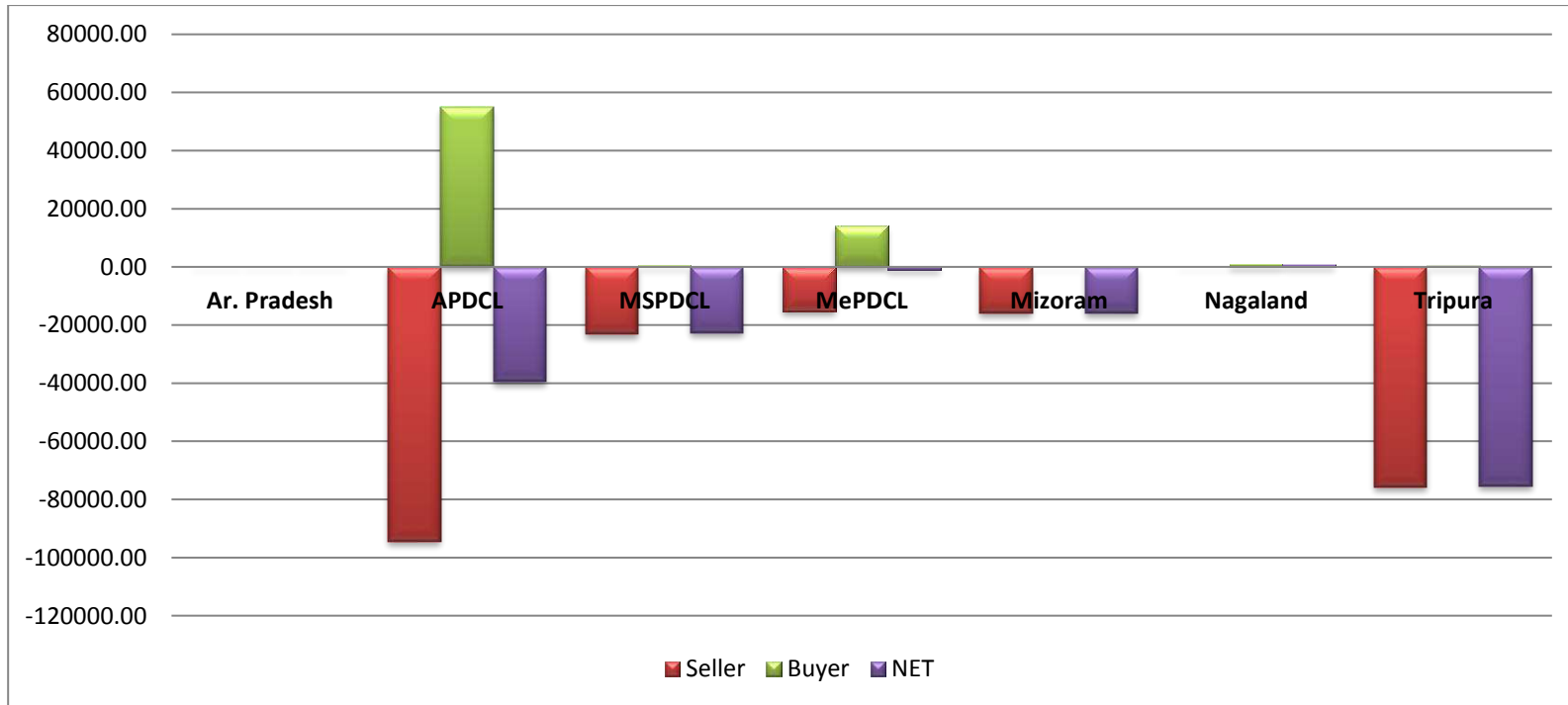
B-6

Station-wise Plant Load Factor for December 2017



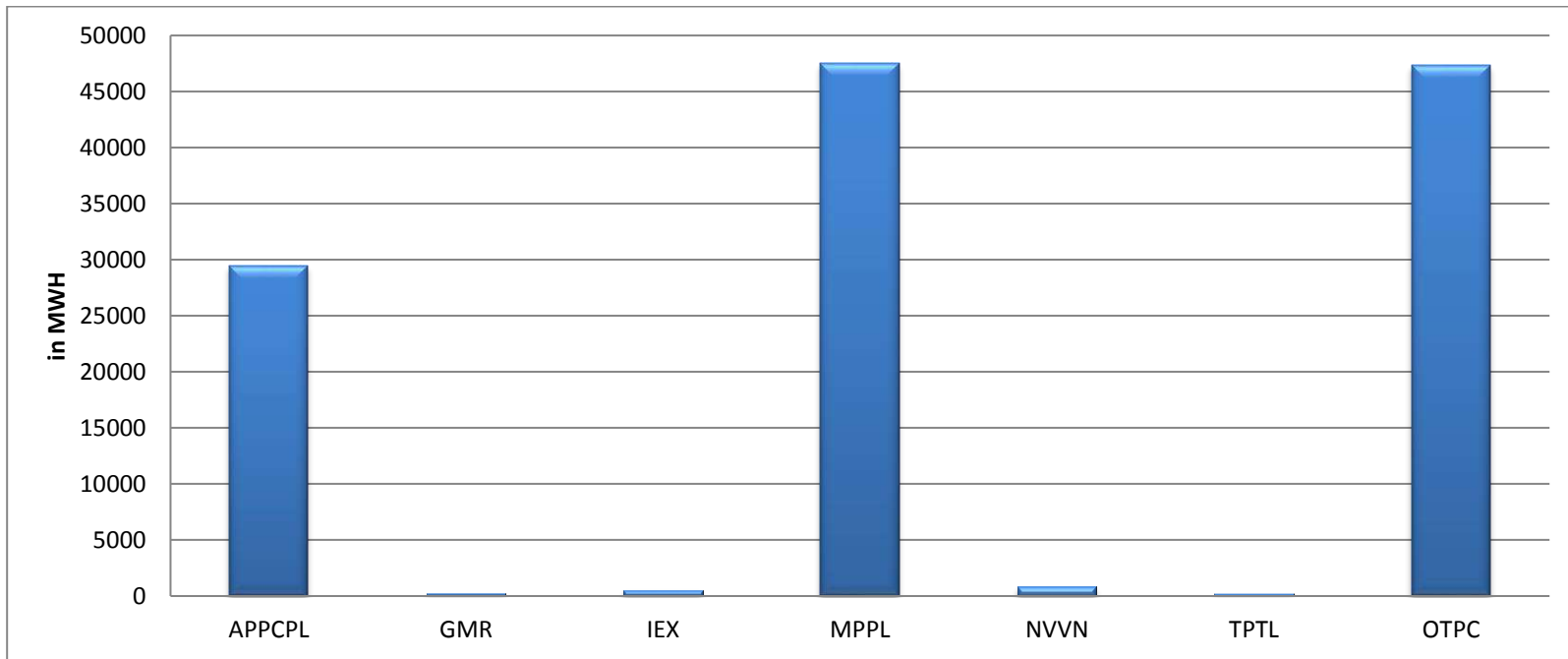
B-7

Collective Transaction through IEX Power Exchange December 2017



B-8

Consolidated SEB in NE Region for the month of December 2017



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Brief highlights of North Eastern Regional Power System for the month of January 2018

- The maximum unrestricted demand during the month of January 2018 was 2339 MW, which was 2333 MW in the month of December 2017. The peak demand met in NER during the period under review was 2317 MW, which was 2314 MW in the previous month.
- The energy requirement during the month of January 2018 was 1331.73 MU, which was 1284.39 MU in the month of December 2017. The energy availability in NER during the period under review was 1311.03 MU, which was 1258.75 MU in the previous month.
- The maximum, minimum & average system frequencies were 50.29 (31.01.18), 49.62 (31.01.18) & 49.98 Hz respectively. The maximum, minimum & average FVI were 0.071, 0.027 & 0.046 respectively. The average FVI was less than its previous month's figure of 0.052. (Refer Annex-II).
- Maximum export of power from NER to ER was 817 MW (on 03.01.18 at 14:45 Hrs) and that from ER to NER was 1172 MW (on 08.01.18 at 17:15 Hrs). The same Inter-Regional Exchanges of NER with NR and vice versa were 677 MW (on 29.01.18 at 11:30Hrs.) and 713 MW(on 15.01.18 at 16:15Hrs.) respectively. Total net energy import during the month was 88.18 MU (173.18 MU from ER and -85.0 MU from NR).

Salient Features of North Eastern Regional Grid for January 2018

1	New Unit/Transmission Line/Transformer commissioned during this month		
2	Number of major grid disturbance during this month		
		Jan-18	Jan-17
3	Installed Capacity of the Region (in MW)		
	(i) Grid	3707.00	3496.00
	(ii) Isolated	125.00	124.00
	Total (As on 30.12.2017)	3832.00	3620.00
4	Energy Generation in MU (Gross):		
	Thermal/Gas	1040.91	844.63
	Hydel	233.39	214.5
	Solar	0.60	0.70
	Total	1274.90	1059.83
5	Demand in MW:		
	Registered Peak Demand	2339	2330
	Peak Demand Met	2317	2320
	Shortage (%age)	0.85	0.43
6	Regional Energy (Gross) in MU:		
	Energy Requirement	1331.73	1278
	Energy Availability	1311.03	1239
	Surplus (+)/Deficit(-) (%age)	-1.58	-3.14
7	Inter Regional Energy Exchange in MU:		
	NER -----> ER	104.32	167.45
	ER -----> NER	277.5	22.5
	NER -----> NR	215	0
	NR -----> NER	130	354
	Net Import	88.18	209.05
8	Frequency Profile:		
	Average Frequency (Hz)	49.98	49.95
	Average Frequency Variation Index	0.046	-

Monthly Power Supply Position

1. Energy Generation In The Region For the Month of January 2018

All figures in MU

Constituents	Hydro		Coal/Oil fired		Gas Based (OC/CC)		Solar		Total (Gen)	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net
	A	B	C	D	E	F	G	H	I	J
State Sector :										
Assam	20.62				67.14				87.76	
Meghalaya	52.06		23.3						75.36	
Mizoram	0								0	
Tripura	4.35				48.17				52.52	
Nagaland	4.96								4.96	
Total (S. Sector)	81.99		23.3		115.31		0		220.6	
Central Sector :										
NEEPCO:										
Khd+Kop+Kop-II	40.5								40.5	
Kathalguri (AGBPP)					164.0				164.0	
RC Nagar					58.2				58.2	
Doyang	5.1								5.1	
Ranganadi	39.2								39.2	
Monarchak					40.5		0.6		41.1	
NHPC:										
Loktak	66.6								66.6	
OTPC:										
Pallatana Gas PP					377.6				377.6	
NTPC:										
BgTPP			262.0						262.0	
Total (C. Sector)	151.4		262.0		640.3		0.6		1054.3	
Total NER	233.39		285.3		755.61		0.6		1274.90	

2. Requirement Vs Availability In The Region

STATES	ENERGY requirement (MU) at 50 Hz				POWER requirement (MW) at 50 Hz			
	<i>Availability & L/S at prevailing frequency</i>				<i>Availability & L/S at prevailing frequency</i>			
	Requirement	Availability	Shortfall	% Shortfall	Requirement	Availability	Shortfall	% Shortfall
Ar. Pradesh	72.36	72.34	0.02	0.03	138.62	133.90	4.72	4.48
Assam	684.81	683.65	1.16	0.17	1538.62	1510.00	28.62	1.90
Manipur	96.42	87.03	9.39	10.79	201.53	195.00	6.53	3.35
Meghalaya	187.46	186.47	0.99	0.53	331	331	0	0.00
Mizoram	52.83	52.81	0.02	0.04	104.80	96.00	8.8	9.17
Nagaland	63.57	62.83	0.74	1.18	151.93	124.00	27.93	22.52
Tripura	174.29	165.90	8.39	5.06	262.34	262.00	0.34	0.13
REGION	1331.73	1311.03	20.7	1.58	2339	2317	22	0.95

3. Estimation Of Peak Demand (In MW)

Constituents	Peak Demand Met	Date	Freq (Hz)	Estimated Peak Demand at 50 Hz
Arunachal Pradesh	134	01.01.18	50.07	139
Assam	1510	11.01.18	49.92	1539
Manipur	195	11.01.18	50.08	202
Meghalaya	331	09.01.18	50.00	331
Mizoram	96	18.01.18	50.07	105
Nagaland	124	08.01.18	50.02	152
Tripura*	226	30.01.18	49.95	226
REGION	2317	21.01.18	50.09	2339

4. Estimation of Energy Requirement (In MU)

Constituents	Generation	Energy Drawal from Grid		Energy Availability	Actual Requirement
		Schedule	Drawal		
Arunachal Pradesh	0	58.41	72.34	72.34	72.36
Assam	87.76	581.50	597.31	683.65	684.81
Manipur	0	88.57	87.03	87.03	96.42
Meghalaya	75.36	117.14	111.28	186.47	187.46
Mizoram	0	31.11	25.45	52.81	52.83
Nagaland	4.96	56.73	57.88	62.83	63.57
Tripura	52.52	71.62	75.01	165.90	174.29
REGION	220.6	1005.08	1026.30	1311.03	1331.73

*Tripura(excluding Bangladesh)

Station-Wise Energy Generated (MU) and Peak Generation (MW)

S. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Jan-18	Jan-17
(i) STATE SECTOR : HYDRO					
ASSAM : HYDRO					
1	LANGPI U-1	50	51	9.86	7.71
2	LANGPI U-2	50	51	10.76	7.12
TOTAL		100	102	20.62	14.83
MEGHALAYA : HYDRO					
3	UMIAM STAGE - 1 U-1	9	9	2.08	1.10
4	UMIAM STAGE - 1 U-2	9	9	2.09	1.12
5	UMIAM STAGE - 1 U-3	9	9	2.03	1.06
6	UMIAM STAGE - 1 U-4	9	9	2.18	1.22
7	UMIAM STAGE - 2 U-1	10	10	1.49	1.42
8	UMIAM STAGE - 2 U-2	10	10	2.37	0.93
9	UMIAM STAGE - 3 U-1	30	20	0.11	0
10	UMIAM STAGE - 3 U-2	30	30	10.46	5.93
11	UMIAM STAGE - 4 U-1	30	30	5.95	3.10
12	UMIAM STAGE - 4 U-2	30	30	5.84	2.74
13	UMTRU U-1	20	20	5.66	0
14	UMTRU U-2	20	21	5.51	0
15	UMTRU U-3	20	0	0	0
16	UMTRU U-4	20	0	0	0
17	MYNTDU-LESHKA U-1	42	42	0.49	1.45
18	MYNTDU-LESHKA U-2	42	0	0	2.29
19	MYNTDU-LESHKA U-3	42	42	5.20	0.28
20	SONAPANI	2	2	0.60	0.47
TOTAL		384	293	52.06	23.10
NAGALAND : HYDRO					
21	LIKIMRO - 1	8	8	2.61	1.86
22	LIKIMRO - 2	8	8	1.26	0.29
23	LIKIMRO - 3	8	8	1.09	1.56
TOTAL		24	24	4.96	3.71
MIZORAM : HYDRO					
24	SERLUI B U-1	4	0	0	2.42
25	SERLUI B U-2	4	0	0	0.87
26	SERLUI B U-3	4	0	0	0.87
TOTAL		12	0	0	4.16
TRIPURA : HYDRO					
27	GUMTI - 1	5	0	0	3.20
28	GUMTI - 2	5	5	2.91	0
29	GUMTI - 3	5	5	1.44	0
TOTAL		15	10	4.35	3.20
TOTAL STATE (HYDRO) :		535	429	81.99	48.46

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Sr. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Jan-18	Jan-17
(i) STATE SECTOR : THERMAL/GAS					
MIZORAM : THERMAL					
1	BAIRABI U-1	6	0	0	0
2	BAIRABI U-2	6	0	0	0
3	BAIRABI U-3	6	0	0	0
4	BAIRABI U-4	6	0	0	0
TOTAL		24	0	0	0
TRIPURA : THERMAL					
5	BARAMURA - 1	5			
6	BARAMURA - 2	5			
7	BARAMURA - 3	6.5			
8	BARAMURA - 4	21	22	12.44	15.91
9	BARAMURA - 5	21	21	2.92	0
10	ROKHIA - 1	8			
11	ROKHIA - 2	8			
12	ROKHIA - 3	8	0	0	0
13	ROKHIA - 4	8	0	0	0
14	ROKHIA - 5	8	0	0	0
15	ROKHIA - 6	8	0	0	0
16	ROKHIA - 7	21	21	11.16	15.20
17	ROKHIA - 8	21	22	10.64	13.63
18	ROKHIA - 9	21	20	11.01	13.03
TOTAL		169.5	106	48.17	57.77
MEGHALAYA PRIVATE : THERMAL(COAL)					
19	Maithon Alloy Ltd.	15	15	8.79	0
19	Shyam Century	14	0	0	0
20	Adhunik Cement	25	25	14.51	0
TOTAL		54	40	23.30	0
ASSAM : THERMAL					
21	LTPS - 1	15	0	0	0
22	LTPS - 2	15	10	4.53	2.67
23	LTPS - 3	15	0	0	6.96
24	LTPS - 4	15	0	0	2.37
25	LTPS - 5	20	20	8.51	11.04
26	LTPS - 6	20	20	8.58	15.28
27	LTPS - 7	20	20	2.45	10.83
28	LTPS - 8	37	35	8.19	15.15
29	NTPS - 1	20	0	0	56.49
30	NTPS - 2	21	21	11.17	8.89
31	NTPS - 3	21	21	12.98	4.27
32	NTPS - 4	11	11	4.52	8.26
33	NTPS - 5	24	2	0	1.42
34	NTPS - 6	22	11	6.19	5.21
35	DLF	25	0	0	0
TOTAL		301	171	67.14	148.86
TOTAL STATE (THERMAL/GAS) :		561.5	317	138.61	206.63
TOTAL STATE GEN (HY+TH/GAS)		1096.5	746	220.6	255.09

S. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Jan-18	Jan-17
(ii) CENTRAL SECTOR : HYDRO					
1	KHANDONG - 1	25	0	0	6.2
2	KHANDONG - 2	25	26	2.9	3.8
3	KOPILI Stg - II	25	27	3.9	0.5
4	KOPILI - 1	50	52	13.6	10.7
5	KOPILI - 2	50	53	11.7	14.8
6	KOPILI - 3	50	53	8.1	18.0
7	KOPILI - 4	50	49	0.3	14.4
8	DOYANG - 1	25	22	2.6	2.1
9	DOYANG - 2	25	0	0.0	2.1
10	DOYANG - 3	25	23	2.5	2.2
11	LOKTAK - 1	35	36	16.9	12.8
12	LOKTAK - 2	35	37	23.6	23.2
13	LOKTAK - 3	35	38	26.1	23.1
14	RANGANADI - 1	135	139	15.9	7.3
15	RANGANADI - 2	135	141	13.2	15.3
16	RANGANADI - 3	135	139	10.1	9.1
TOTAL CS HYDRO :		860	835	151.4	165.5
(ii) CENTRAL SECTOR : THERMAL/GAS					
1	KATHALGURI - 1	34	33	16.1	0
2	KATHALGURI - 2	34	32	21.9	11.6
3	KATHALGURI - 3	34	34	22.0	19.5
4	KATHALGURI - 4	34	33	11.4	22.7
5	KATHALGURI - 5	34	32	23.0	20.2
6	KATHALGURI - 6	34	33	23.0	18.7
7	KATHALGURI - 7	30	26	15.3	4.4
8	KATHALGURI - 8	30	25	12.6	18.6
9	KATHALGURI - 9	30	27	18.8	16.5
10	R.C. NAGAR - 1	21	22	8.6	13.0
11	R.C. NAGAR - 2	21	22	12.4	13.1
12	R.C. NAGAR - 3	21	22	12.9	12.2
13	R.C. NAGAR - 4	21	21	3.9	15.5
14	R.C. NAGAR - 5	23	22	11.7	13.6
15	R.C. NAGAR - 6	23	23	8.8	15.2
16	MONARCHAK SOLAR PV	5	5	0.6	0.7
17	MONARCHAK - GTG 1	65.5	46	27.3	37.5
18	MONARCHAK - STG 1	35.5	35	13.2	0
19	PALLATANA - GTG 1	232	242	124.0	107.0
20	PALLATANA - STG 1	131	129	76.1	65.5
21	PALLATANA - GTG 2	232	237	105.1	72.1
22	PALLATANA - STG 2	131	127	72.4	51.9
23	BgTPP - 1	250	251	130.0	127.5
24	BgTPP - 2	250	264	132.0	0

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25	BgTPP - 3				
TOTAL CS (THERMAL/GAS) :		1756	1703	902.9	638.7
TOTAL CS GEN (HY+TH/GAS)		2616	2538	1054.3	804.2
TOTAL NER GEN (HY+TH/GAS)		3712.5	3284	1274.90	1059.29

Plant Load Factor (PLF)

PLANT LOAD FACTOR OF THE THERMAL/GAS STATIONS IN N.E.R.					
S. No.	Power Station	State/Constituent	Installed Capacity (MW)	Generation (in MU)	Stationwise PLF(%)
1	LTPS*	AEGCL	157.00	32.27	34.68
2	NTPS*	AEGCL	119.00	34.87	47.11
3	Baramura	Tripura	42.00	15.36	49.10
4	Rokhia	Tripura	95.00	32.81	70.00
5	AGBPP	NEEPCO	291.00	164.0	74.51
6	AGTTP	NEEPCO	130.00	58.2	58.31
7	Monarchak	NEEPCO	102.00	40.5	53.90
8	Pallatana	OTPC	727.00	377.6	69.15
9	BgTTP	NTPC	500.00	262.0	69.96

*LTPS -- Lakwa Thermal Power Station; *NTPS -- Namrup Thermal Power Station

Voltage Profile

1. Maximum and Minimum Voltage (KV) Of Important Substations

S. No.	NAME of SUB-STATION	MAXIMUM (kV)	MINIMUM (kV)
1	MISA 400 kV	424	392
2	BALIPARA 400 kV	424	390
3	BONGAIGAON 400 kV	418	393
4	RANGANADI 400 kV	424	384
5	PALLATANA 400 kV	423	410
6	SILCHAR 400 kV	422	384
7	BISHWANATH CHARIALI 400 kV	422	384
8	AZARA 400 kV	412	402
9	BgTPP 400 kV	421	398
10	MISA 220 kV	227	211
11	SALAKATI 220 kV	244	214
12	AGBPP 220 kV	238	229
13	MOKOKCHUNG 220 kV	240	227
14	AIZAWL 132 kV	141	119
15	IMPHAL 132 kV	139	122
16	Byrnihat 400kV	425	395
17	Kahilipara 132kV	139	128
18	Nirjuli 132kV	140	128

2. Voltage Range In KV as Percentage Of Time For The Block

SUB-STATION	kV < 360	360 < kV < 380	380 < kV < 420	kV > 420
MISA	0	0	97.69	2.31
BALIPARA	0	0	99.92	0.08
BONGAIGAON	0	0	100.00	0
PALATANA	0	0	99.18	0.82
SILCHAR	0	0	99.27	0.73
Azara	0	0	100.00	0
Biswanath Charali	0	0	99.00	1.00
BgTPP	0	0	99.91	0.09
Byrnihat	0	0	98.00	2.00

Inter-Regional Energy Exchange, Major Grid Disturbance and Meetings held by NERPC

1. Inter-Regional Energy Exchange

All Fig. in MU

N E R to E R	104.32
E R to N E R	277.5
NET IMPORT FORM E R	173.18
N E R to N R	215
N R to N E R	130
NET IMPORT FROM N R	-85
NET IMPORT	88.18

2. Major Grid Disturbances:

None.

3. Meetings Held by NERPC:

Sr. No.	Meeting	Date	Venue
1.	8 th NETeST Meeting	18.01.2018	Guwahati
2.	140 th OCC Meeting	19.01.2018	Guwahati
3.	34 th CC Meeting	24.01.2018	Jorhat

Status of Progress

1. Generating Projects in NER

Progress of Thermal Power Generation Projects in NER					
Central Sector					
Sr. No.	Plant	Units	Capacity in MW	Commissioning Schedule	Remarks
1	NTPC Bongaigaon	3rd		Jul-17	<ul style="list-style-type: none"> Boiler Drum Lifting Feb'13 & Boiler Hydro test Mar'14 Next Milestone : Boiler Light Up Nov'16

Progress of Hydro Power Generation Projects in NER					
Central Sector					
Sr. No.	Plant	Units	Capacity in MW	Commissioning Schedule	Remarks
1	Subhansiri Lower (Ar. Pradesh/NHPC)	8	8x250	Syn. Comm: 2016-18	<ol style="list-style-type: none"> Signing of MoU with State Government of Assam Law & Order problem Issue of Downstream Impact Assessment & demand for stoppage of works by anti-dam activists. Since 16.12.2011 work.
2	Kameng (Ar. P/NEEPCO)	4	4x150	Mar-18	Work in Progress
3	Pare (Ar. P/NEEPCO)	2	2x55	Mar-18	Work in Progress
4	Demwe Lower (Ar. P)	6	5x342; 1x40	2016-17	
State Sector					
1	Ganol SHP (MePGCL)	3	3x7.5	Oct-15	LOI issued on 22nd Dec,2012. Work Order is being issued.
3	Lakroh MHP (MePGCL)	1	1.5		Delayed due to rain.

2. Transmission Lines In NER

Progress of Transmission Lines in NER					
POWERGRID					
Sr. No.	Name of Lines	Total length in Km	Target Date		Remarks
			Scheduled	Revised	
1	400 kV Kameng-Balipara D/C	144	Aug-13	Mar-18	ATS slowed down to the extent possible to match with generation of Kameng.
2	400 kV Lower Subansiri-Biswanath Chariyali D/C I	335	Aug-13	Mar-18	Completion matching with Gen.(Sch. uncertain).Works Standstill on account of local disturbance/agitation against big dam. Generation schedule uncertain.
3	400 kV Lower Subansiri-Biswanath Chariyali D/C II	348	Aug-13	Mar-18	Completion matching with Gen.(Sch. uncertain).Works Standstill on account of local disturbance/agitation against big dam. Generation schedule uncertain.
4	400 kV Silchar-Melriat(New) D/C (Charged at 132 kV)	248	Dec-12	Feb-18	Major portion of line in forest. severe ROW in vicinity of Aizawl town due to stiff resistance from influential local owner. Package re-awarded in Jun'16.
5	400 kV D/C Jigmeling - Alipurduar TL	-	Jan-18	Mar-19	Work in Progress
6	132 kV Melriat (New) - Sihhmui	-	Dec-12	Feb-18	Erection completed. Testing under progress. Commissioning matching with upstream Silchar-Melriat link.
7	Phulbari (Meghalaya) - Ampati	-	Sep-19	Sep-19	
8	LILO of 132 kV Ranganadi-Nirjuli at Pare	-		Oct-17	
9	132 kV Tezu-Namsai S/C	96	Dec-12	Feb-18	Progress affected due to severe ROW Problem.
10	132KV D/C Interconnecting Silchar-Melriat T/L using 220 KV Towers	-	Mar-17	June-17	Work in Progress
TSECL					
11	132 kV Monarchak-	50	Jun-14	Mar-17	Work in Progress

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	Surajmani Nagar D/C				
12	132 kV Surjyamani Nagar-Badarghat D/C	6		Aug-16	Fund proposed in World Bank.
13	132 kV Surjyamani Nagar(TSECL)-Rokhia DC	32.32	Nov-14	Mar-14	3.598 km line in forest land for which TSECL will supply for forest clearance. LOA issued.
14	132 kV Gamai Tilla - Dhalabil	31		Sep-13	ROW problems affected the work
15	132 kV P K Bari - Kanchanpur	47		Mar-15	All works completed in non forest land. Stage I clearance received and compliance for conditions completed.
MePTCL					
16	132 kV Rongkhon-Ampati D/C	1		Dec-17	1. Date of award of contract is 29.07.2011. 2. Schedule date of completion was 29.07.2012. 3. Anticipated date of completion is December 2017. Work is presently under progress.
MeECL					
17	LILO of 132 kV Mawlai-Cherrapunjee at Mawngap	10		Mar-18	Work held up due to ROW problem. The PHED,GOMe has complained and filed and FIR against Loc No. 3 to 8. Overall status is 90% completed.
18	LILO of 132 kV NEIGRIHMS - Khliehriat at Lad Nongkrem	6		Dec-17	Delay in supply of materials for line by the vendor.
19	LILO of 132 kV Rongkhon - Ampati at Praharinagar	20		Sep-18	Survey works for 132 kV LILO is completed. LOA for the LILO is yet to be awarded.
Mizoram					
20	132 kV Tural-Aizawl	12		Mar-14	
AEGCL					
21	BTPS - Rangia D/C line	326.374	Mar-13	Mar-18	1. Overall 89%completed.A. All normal foundation completed. B. 5 nos. of Pile foundation completed.
22	LILO of one Ckt. of Samaguri - Sarusajai D/C line at Sonapur sub-station	26.624	Dec-13	Mar-18	Water logging & harvesting are reasons to be attributed for delaying.

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23	132 kV DC Sonapur-Jagiroad Tr. Line.	51.75	Nov-13	Mar-18	Compensation/ROW Issue.
24	132 kV DC Sonapur- Chandrapur Tr. Line	28.438	Nov-13	Mar-18	Railway X'ing/ ROW/ Compensation issue.
26	Agia- Sonapur (Hatchingmari) S/C line on D/C tower	102.51	April -17	Mar-18	

Commercial Status

1. Entitlement, Schedule, Drawal and DSM Charges for the month of January 2018

Name of states	Entitlement from ISGS in NER (in MU)	Entitlement from ISGS in ER (in MU)	Total Entitlement (in MU)	Scheduled energy against entitlement (in MU)	Schedule Drawal (for Dev A/c) (Ex-PP State) (in MU)	Actual Drawal from Grid (in MU)	Over Drawal (+) / Under Drawal (-) (in MU)	Dev Payable (-) / Receivable (+) (including additional deviation) (Rs. In Cr)
Arunachal Pradesh	51.99	4.12	56.10	54.48	58.41	72.34	13.92	-3.46
ASEB	464.93	99.71	564.64	538.14	581.50	597.31	15.82	-4.24
Manipur	94.87	0.00	94.87	74.47	88.57	87.03	-1.54	0.31
MeSEB	111.53	0.00	111.53	73.70	117.14	111.28	-5.86	1.30
Mizoram	46.78	3.02	49.80	47.71	31.11	25.45	-5.66	1.16
Nagaland	50.14	9.10	59.23	56.42	56.73	57.88	1.14	-0.39
Tripura	154.56	0.00	154.56	142.70	71.62	75.01	3.39	-0.96
PGCIL-HVDC	1.50	0.00	1.50	0.86	0.86	0.49	-0.38	0.09

(Source: PSP, NERPC)

* In addition to total entitlement, bilateral exchanges and purchase/sell through traders/exchange are covered in Annexure-III.

2. Schedule for ISGS Generation for the month of January 2018.

ISGS	Schedule (MU)	Injection (MU)
AGTCCPP	157.28	159.12
AGBPP	38.31	38.90
KOPILI - I HEP	64.18	65.12
KOPILI - II HEP	2.55	
KHANDONG HEP	31.85	

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DHEP	3.51	0
RHEP	4.62	5.02
LOKTAK HEP	54.99	57.60
OTPC, PALLATANA	360.71	361.51
BgTPP	236.81	242.35

Source: Revised PSP, NERPC.

3. Cumulative Wt. Average Share Allocation (%) (Up to this month) in CS Stations

States	Kopili (200 MW)	Kopili-II (25 MW)	Khandong (50 MW)	RHEP (405 MW)	DHEP (75 MW)	AGBPP (291 MW)	AGTCCPP (130 MW)	BgTPP (250 MW)	OTPC (726.6 MW)	Loktak HEP (105 MW)
Arunachal Pradesh	5.191	5.992	4.194	18.462	6.852	5.694	6.702	5.1325	3.0303	4.940
Assam	53.455	52.355	56.285	43.328	43.808	56.503	43.720	57.420	33.058	29.445
Manipur	7.395	6.945	6.555	8.373	7.865	8.105	8.225	7.505	5.7851	42.508
Meghalaya	17.395	13.675	16.905	11.505	11.455	11.815	12.633	10.980	10.882	0.000
Mizoram	4.610	6.040	3.940	5.700	5.250	5.410	6.0	5.415	3.0303	5.020
Nagaland	6.147	5.735	6.653	5.335	17.967	5.805	5.737	4.930	3.7190	6.435
Tripura	5.807	9.258	5.468	7.297	6.803	6.668	16.983	7.6175	26.9972	11.652
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	98.995	86.5019	100.00

4. Share Allocation (%) in CS Stations from Eastern Region

States	Farakka-I	Kahelgaon-I	Kahelgaon-II	Talcher	Farakka-III
Assam	2.455737%	2.104847%	5.093479%	2.095419%	0.000000%
Meghalaya	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%
Nagaland	0.429803%	0.424446%	0.000000%	0.424823%	0.000000%
Arunachal Pradesh	0.191917%	0.191747%	0.000000%	0.196898%	0.000000%
Mizoram	0.141736%	0.141610%	0.000000%	0.141736%	0.000000%
Assam (NVVN Coal Power)	0.091912%	0.091912%	0.091912%	0.091912%	0.091912%

5. Details of Fixed and Energy Charges of CS Stations for FY 2017-18

Projects	Installed Capacity (MW)	Design Energy (GWh)	Annual Fixed Charge (Crore)	Reference
KOPILI HEP	200	1186.14	109.8446	As per CERC order dated 13.01.2016 in petition No 46/GT/2015.
KOPILI - II	25	86.30	13.2283	As per CERC order dated 23.01.2012 in pet. No 298/2009

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KHANDONG HEP	50	277.61	40.3627	As per CERC order dated 13.01.2016 in petition No 42/GT/2015.
RHEP	405	1509.69	260.4693	As per CERC order dated 05.01.2016 and corrigendum 07.03.2016 in petition No.40/GT/ 2015.
DHEP	75	227.24	101.5605	As per CERC order dated 13.01.2016 and corrigendum dtd. 07.03.16 in petition No 43/GT/ 2015.
AGBPP	291	NA	296.5691	As per CERC order dated 15.02.2016 in Pet. No 459/GT/ 2014& 41/GT/2015. Base Rate of energy Charge as per the CERC Order
AGTPP	84	NA	71.7633	As per CERC order dated 11.03.2011 in Pet.No 299/2009,^Base Energy charge as per CERC order
LOKTAK HEP	105	448.00	107.1660	As per CERC order dated 22.10.2012 in RP No. 24/2011 in Pet.No 108/2010
PALLATANA	726.6	NA	899.0405	As per CERC order dated 30.03.2017 in Pet. No 129/GT/2015
BgTPP	250	NA	NA	

Regional Transmission Account (RTA) for the month of January 2018

Name of DIC	Demand/ Injection Zone	PoC Charges	Reliability Support Charges	HVDC Charges	Total
Arunachal Pradesh	Arunachal Pradesh	31821051.14	4214502.92	1295207.34	37330761.39
ASEB	Assam	365017771.33	30164713.97	9270264.99	404452750.29
Manipur	Manipur	38767902.57	5134570.75	1577963.96	45480437.28
MeECL	Meghalaya	20336924.43	6779161.02	2083381.90	29199467.35
Mizoram	Mizoram	34668459.93	2864967.84	880466.20	38413893.97
Nagaland	Nagaland	30442564.79	3503985.90	1076850.18	35023400.87
Tripura	Tripura	23906566.20	7969074.29	2449067.82	34324708.32
HVDC BNC	Assam	668165.23	55216.53	16969.23	740350.98

Grid Disturbance Report

List of Important Grid Disturbances in N E Regional Grid during January 2018

1. At 08:16 Hrs on 05.01.2018, 132 kV Melriat - Zuangtui line tripped. It was restored at 08:29 hrs. Outage duration: 0:13 hrs. Load Loss: 30 MW, Generation Loss: 0 MW. Category- GD-I. Due to tripping of this element, Zuangtui area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.

Annexures and Exhibits

A-1

Major Reservoirs Level of The Month

	FRL (mtr.)	MDDL (mtr.)	Jan 2018	Jan 2017
			Level in mtr/ft	Level in mtr/ft
KHANDONG	719.3	704	713.8	709.2
KOPILI	609.5	592.83	600.9	600.9
LOKTAK	768.5	766.2	768.1	767.7
BARAPANI	3220 ft	3150 ft	3202.0	3180.8
GUMTI	93.55	83.6	92.0	90.7
DOYANG	333	306	317.8	316.1

A-2

Frequency Analysis For The Month of January 2018

Frequency	Freq. (in Hz.)	Date (D.M.Y)
1. Maximum Frequency	50.29	31.01.2018
2. Minimum Frequency	49.62	31.01.2018
3. Monthly Average	49.98	

Frequency in Hz as %age of Time for the Blocks

$f < 49.90$	$49.90 < f < 50.05$	$f > 50.05$
11.07	78.01	10.92

Daily Frequency Variation Index (FVI):

Date	FVI	Date	FVI
01-01-2018	0.066	17-01-2018	0.050
02-01-2018	0.053	18-01-2018	0.034
03-01-2018	0.058	19-01-2018	0.035
04-01-2018	0.058	20-01-2018	0.027
05-01-2018	0.081	21-01-2018	0.029
06-01-2018	0.057	22-01-2018	0.043
07-01-2018	0.038	23-01-2018	0.043
08-01-2018	0.044	24-01-2018	0.052
09-01-2018	0.037	25-01-2018	0.071
10-01-2018	0.034	26-01-2018	0.036
11-01-2018	0.053	27-01-2018	0.043
12-01-2018	0.050	28-01-2018	0.044
13-01-2018	0.041	29-01-2018	0.039
14-01-2018	0.034	30-01-2018	0.050
15-01-2018	0.033	31-01-2018	0.055
16-01-2018	0.032		

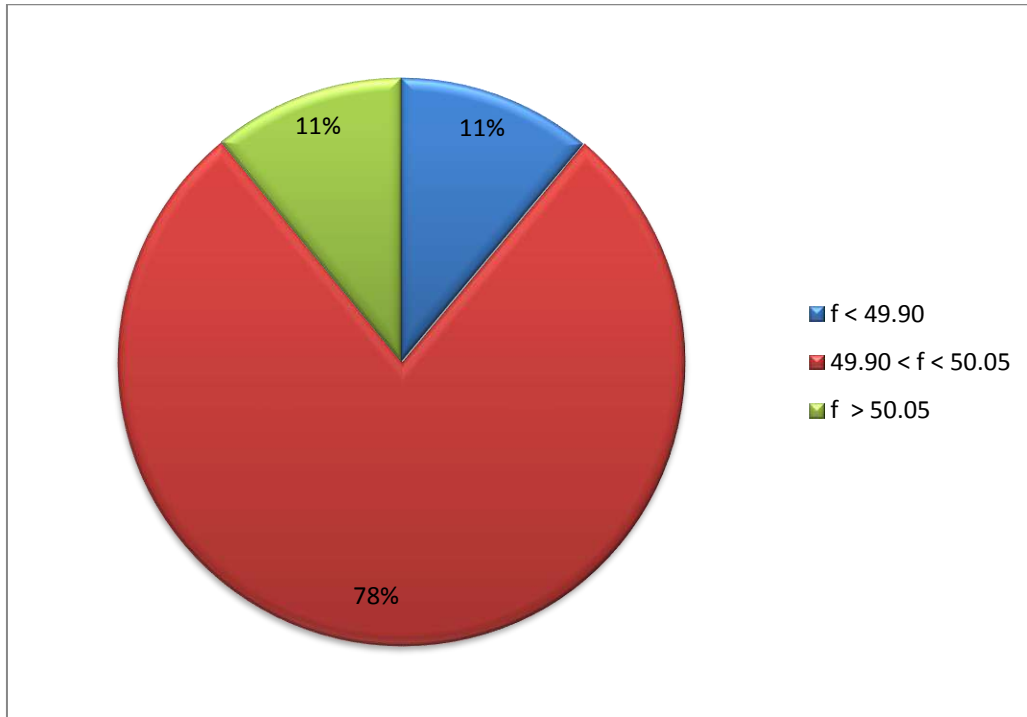
A-3

Consolidated Scheduled Bilateral Exchanges in NE Region during January 2018

Name of Trader	Energy at NER periphery (in MWH)
APPCPL	90379.11
GETL	26.36
GMRETL	935.08
IEX	294.48
MPPL	4326.24
NPCL	297.6
NVVN	6656.0
OTPC	47805.0

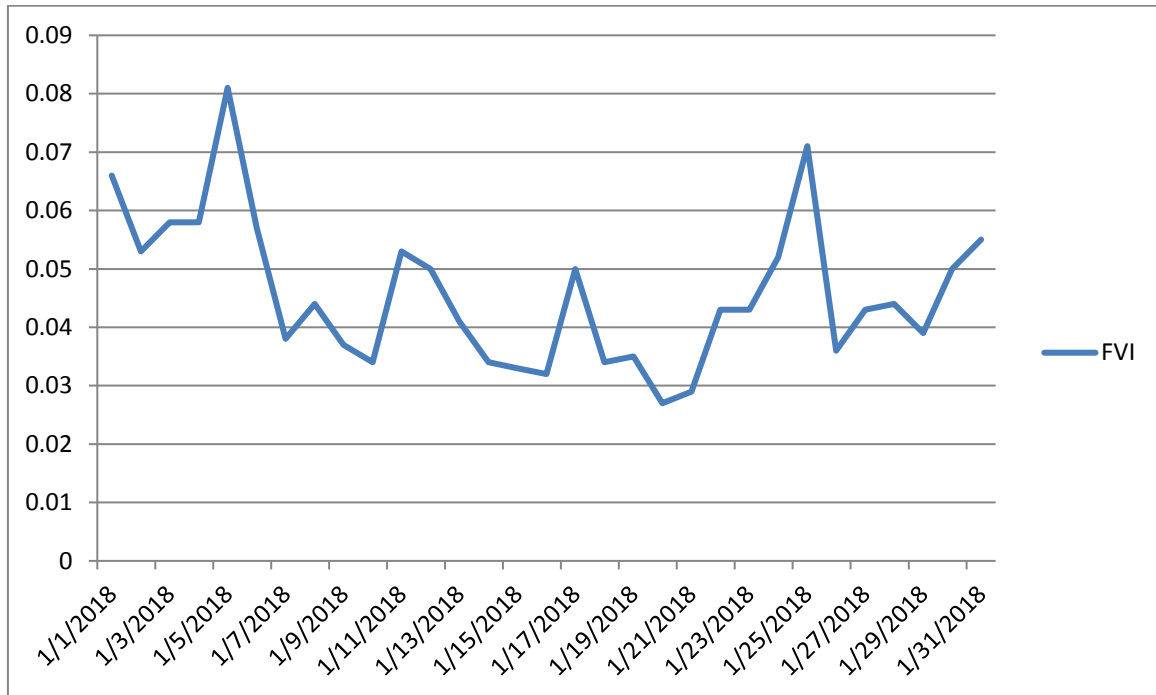
B-1

Frequency Duration for January 2018



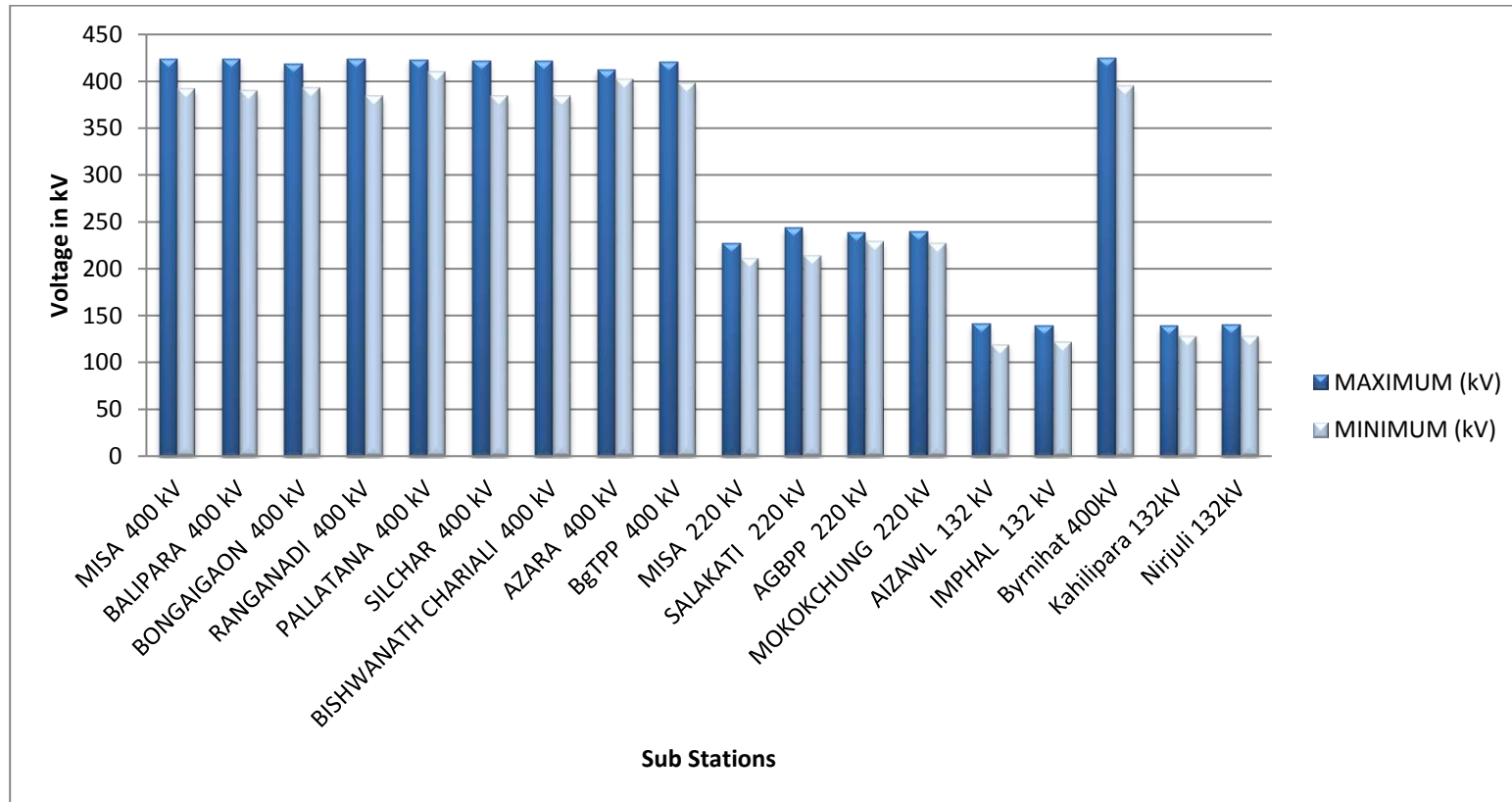
B-2

FVI Characteristic for January 2018



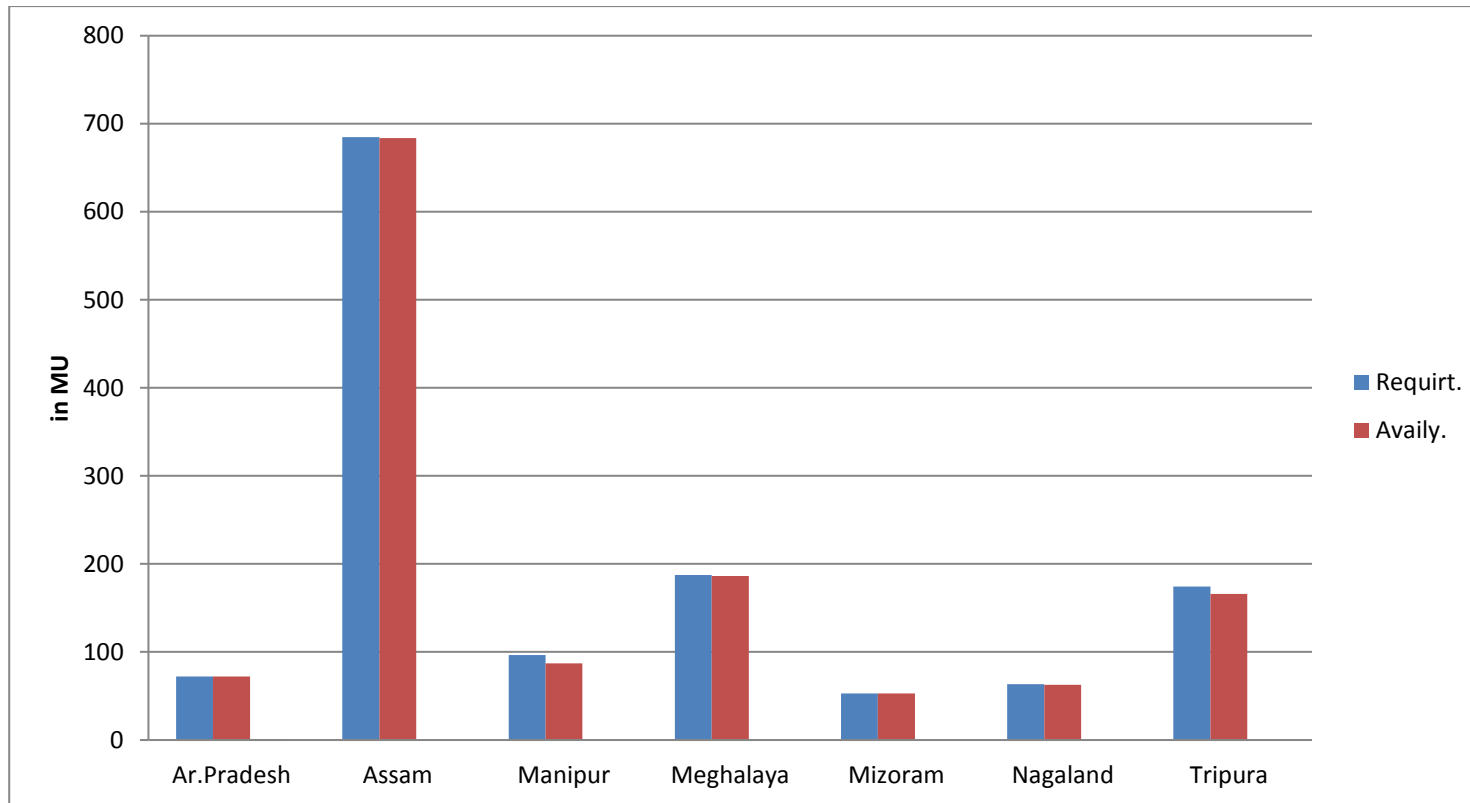
B-3

Voltage Variation Range for January 2018



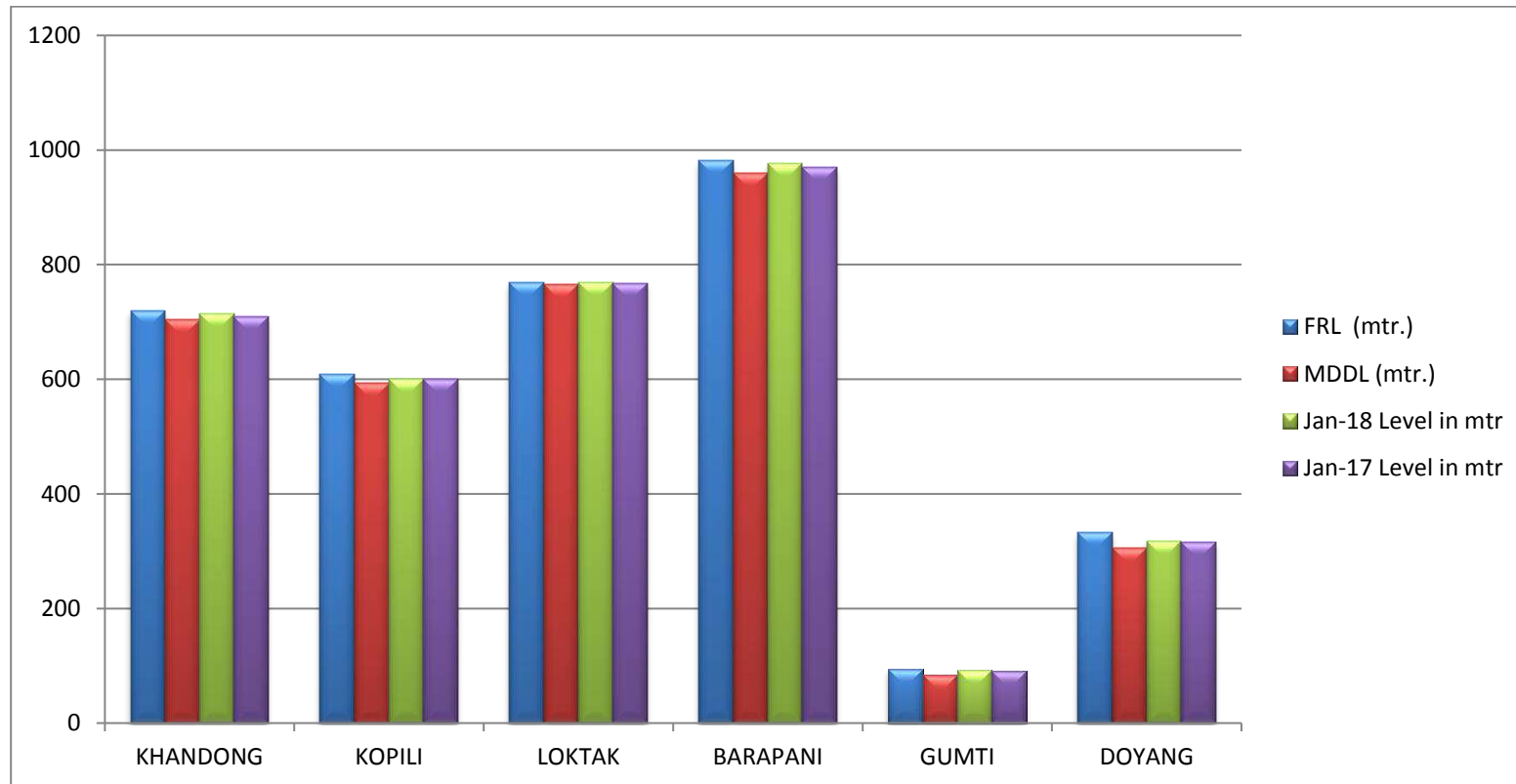
B-4

Energy Profile for January 2018



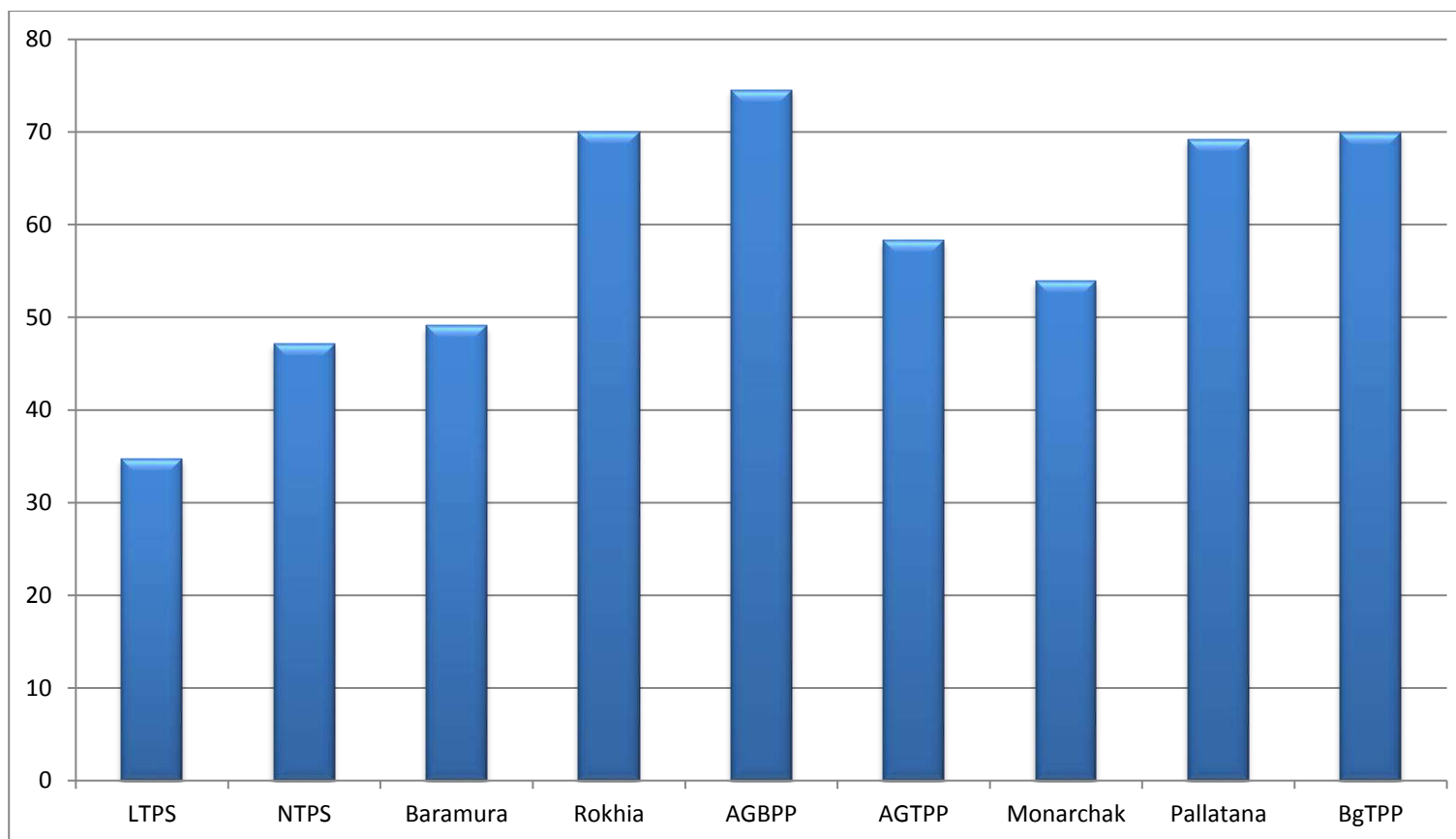
B-5

Reservoir Profile for January 2018



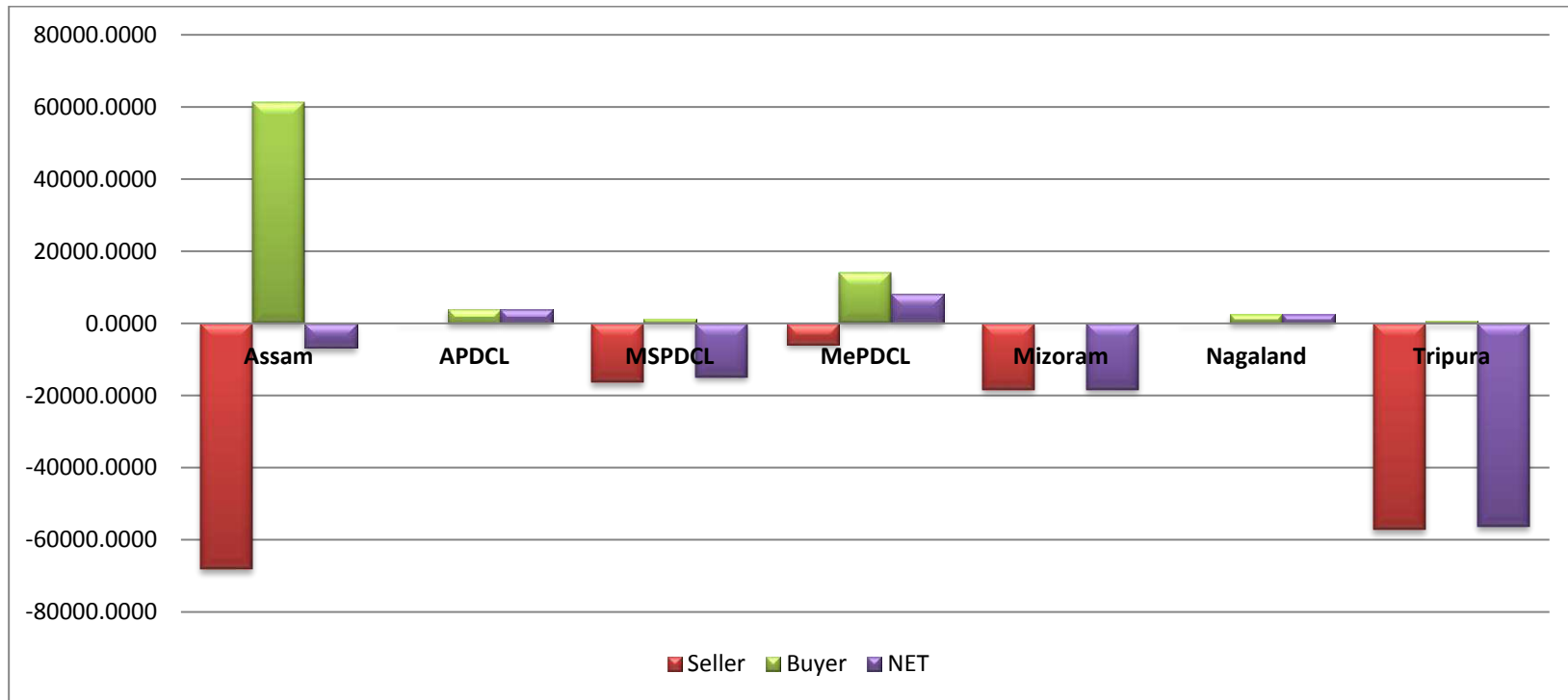
B-6

Station-wise Plant Load Factor for January 2018



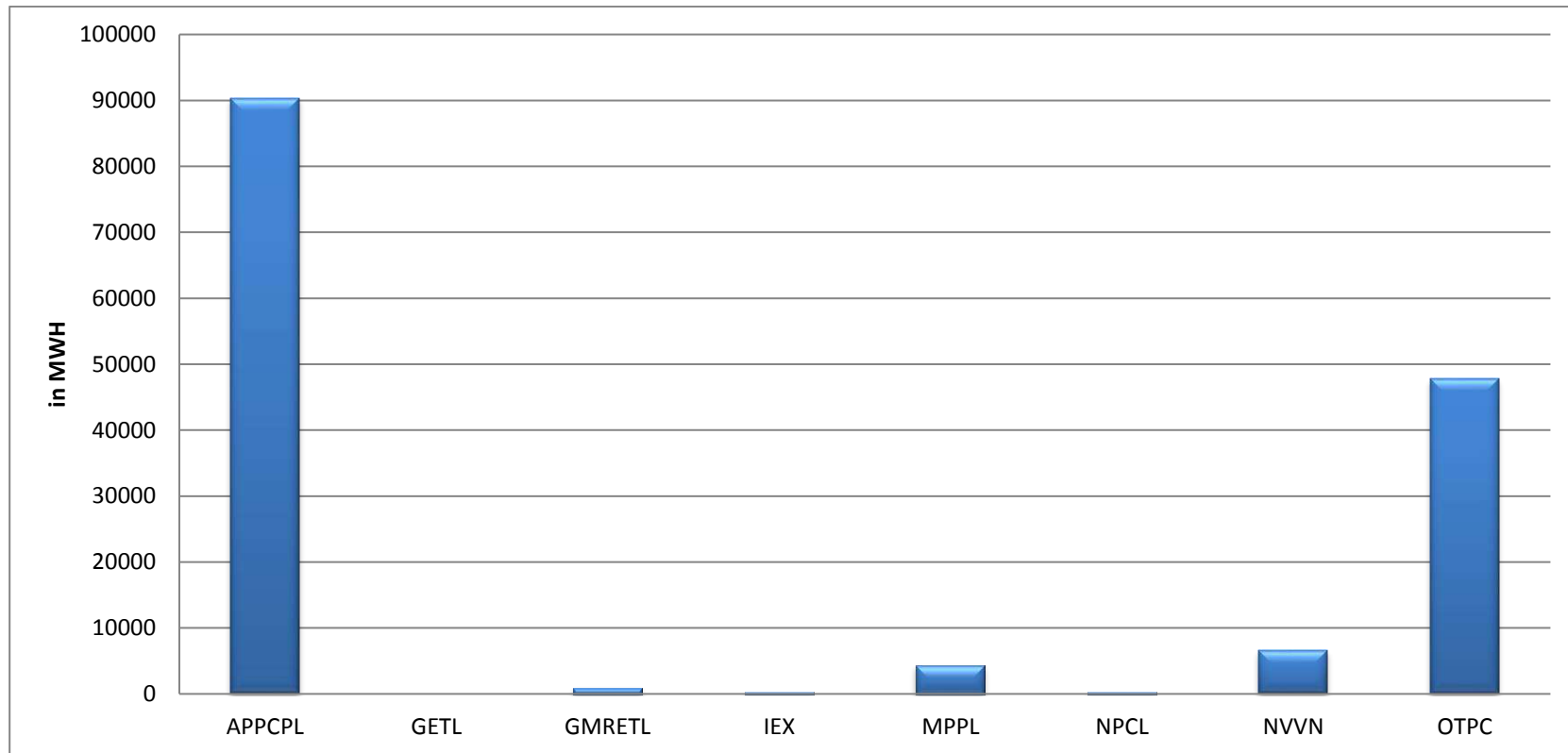
B-7

Collective Transaction through IEX Power Exchange January 2018



B-8

Consolidated SEB in NE Region for the month of January 2018



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Brief highlights of North Eastern Regional Power System for the month of February 2018

- The maximum unrestricted demand during the month of February 2018 was 2387 MW, which was 2339 MW in the month of January 2018. The peak demand met in NER during the period under review was 2333 MW, which was 2317 MW in the previous month.
- The energy requirement during the month of February 2018 was 1135.78 MU, which was 1331.73 MU in the month of January 2018. The energy availability in NER during the period under review was 1113.64 MU, which was 1311.03 MU in the previous month.
- The maximum, minimum & average system frequencies were 50.21 (17.02.18), 49.70 (23.02.18) & 49.98 Hz respectively. The maximum, minimum & average FVI were 0.072, 0.025 & 0.040 respectively. The average FVI was less than its previous month's figure of 0.046. (Refer Annex-II).
- Maximum export of power from NER to ER was 785 MW (on 18.02.18 at 15:00 Hrs) and that from ER to NER was 1121 MW (on 06.02.18 at 20:30 Hrs). The same Inter-Regional Exchanges of NER with NR and vice versa were 704 MW (on 06.02.18 at 21:00Hrs.) and 687 MW(on 20.02.18 at 08:00Hrs.) respectively. Total net energy import during the month was 82.55 MU (147.55 MU from ER and -65.0 MU from NR).

Salient Features of North Eastern Regional Grid for February 2018

1	New Unit/Transmission Line/Transformer commissioned during this month		
2	Number of major grid disturbance during this month		
		Feb-18	Feb-17
3	Installed Capacity of the Region (in MW)		
	(i) Grid	3707.00	3496.00
	(ii) Isolated	125.00	124.00
	Total (As on 28.02.2018)	3832.00	3620.00
4	Energy Generation in MU (Gross):		
	Thermal/Gas	974.51	854.71
	Hydel	203.53	127.34
	Solar	0.50	0.60
	Total	1178.54	982.65
5	Demand in MW:	2387	2243
	Registered Peak Demand	2333	2234
	Peak Demand Met	2.31	0.40
	Shortage (%age)		

Monthly Progress Report of February 2018

6	Regional Energy (Gross) in MU:	1135.78	1142
	Energy Requirement	1113.64	1100
	Energy Availability	-1.99	-3.82
	Surplus (+)/Deficit(-) (%age)		
7	Inter Regional Energy Exchange in MU:	109.55	162.56
	NER -----> ER	257.4	38.8
	ER -----> NER	176	500
	NER -----> NR	111	277
	NR -----> NER	82.55	-346.76
	Net Import		
8	Frequency Profile:	49.98	49.95
	Average Frequency (Hz)	0.040	-
	Average Frequency Variation Index		

3

Monthly Power Supply Position

1. Energy Generation In The Region For the Month of February 2018

All figures in MU

Constituents	Hydro	Coal/Oil fired	Gas Based (OC/CC)	Solar	Total (Gen)	Total (Gen)
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Monthly Progress Report of February 2018

	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net
	A	B	C	D	E	F	G	H	I	J
State Sector :										
Assam	13.79				64.69				78.48	
Meghalaya	42.80		45.56						88.36	
Mizoram	2.67								2.67	
Tripura	3.92				42.76				46.68	
Nagaland	3.75								3.75	
Total (S. Sector)	66.93		45.56		107.45		0		219.94	
Central Sector :										
NEEPCO:										
Khd+Kop+Kop-II	36.7								36.7	
Kathalguri (AGBPP)					128.8				128.8	
RC Nagar					51.8				51.8	
Doyang	4.1								4.1	
Ranganadi	35.7								35.7	
Turial	19.7								19.7	
Monarchak					54.2		0.5		54.7	
NHPC:										
Loktak	40.4								40.4	
OTPC:										
Pallatana Gas PP					327.5				327.5	
NTPC:										
BgTPP			259.2						259.2	
Total (C. Sector)	136.6		259.2		562.3		0.5		958.60	
Total NER	203.53		304.76		669.75		0.5		1178.54	

2. Requirement Vs Availability In The Region

STATES	ENERGY requirement (MU) at 50 Hz				POWER requirement (MW) at 50 Hz			
	<i>Availability & L/S at prevailing frequency</i>				<i>Availability & L/S at prevailing frequency</i>			
	Requirement	Availability	Shortfall	% Shortfall	Requirement	Availability	Shortfall	% Shortfall
Ar. Pradesh	68.66	68.64	0.02	0.03	133.35	128	5.35	4.18
Assam	623.85	622.86	0.99	0.16	1500.67	1481	19.67	1.33
Manipur	84.54	73.11	11.43	15.63	196.97	190.66	6.31	3.31

Monthly Progress Report of February 2018

Meghalaya	140.01	139.28	0.73	0.52	312.35	311	1.35	0.43
Mizoram	46.46	46.45	0.01	0.02	102.66	94	8.66	9.21
Nagaland	57.98	57.40	0.58	1.01	150.11	122	28.11	23.04
Tripura	114.28	105.90	8.38	7.91	274.43	273	1.43	0.52
REGION	1135.78	1113.64	22.14	1.99	2387	2333	54	2.31

3. Estimation Of Peak Demand (In MW)

Constituents	Peak	Date	Freq (Hz)	Estimated Peak Demand at 50 Hz
	Demand Met			
Arunachal Pradesh	128	12.02.18	49.91	133
Assam	1481	02.02.18	50.12	1501
Manipur	191	01.02.18	50.12	197
Meghalaya	311	09.02.18	50.07	312
Mizoram	94	03.02.18	50.12	103
Nagaland	122	22.02.18	49.97	150
Tripura*	237	28.02.18	49.94	238
REGION	2333	02.02.18	50.04	2387

4. Estimation of Energy Requirement (In MU)

Constituents	Generation	Energy Drawal from Grid		Energy Availability	Actual Requirement
		Schedule	Drawal		
Arunachal Pradesh	0	52.17	68.64	68.64	68.66
Assam	78.48	538.25	546.72	622.86	623.85
Manipur	0	75.20	73.11	73.11	84.54
Meghalaya	88.36	101.81	96.63	139.28	140.01
Mizoram	2.67	26.59	24.28	46.45	46.46
Nagaland	3.75	53.42	53.65	57.40	57.98
Tripura	46.68	60.98	59.99	105.90	114.28
REGION	219.94	908.42	923.02	1113.64	1135.78

*Tripura(excluding Bangladesh)

4

Station-Wise Energy Generated (MU) and Peak Generation (MW)

S. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Feb-18	Feb-17
(i) STATE SECTOR : HYDRO					

Monthly Progress Report of February 2018

ASSAM : HYDRO					
1	LANGPI U-1	50	51	5.00	5.78
2	LANGPI U-2	50	51	8.79	4.11
TOTAL		100	102	13.79	9.89
MEGHALAYA : HYDRO					
3	UMIAM STAGE - 1 U-1	9	9	1.96	1.04
4	UMIAM STAGE - 1 U-2	9	9	2.08	0.77
5	UMIAM STAGE - 1 U-3	9	9	1.96	0.72
6	UMIAM STAGE - 1 U-4	9	9	2.06	1.14
7	UMIAM STAGE - 2 U-1	10	11	1.54	1.84
8	UMIAM STAGE - 2 U-2	10	10	2.58	0.07
9	UMIAM STAGE - 3 U-1	30	20	0.18	0
10	UMIAM STAGE - 3 U-2	30	24	9.41	1.89
11	UMIAM STAGE - 4 U-1	30	29	5.28	2.23
12	UMIAM STAGE - 4 U-2	30	30	4.92	1.88
13	UMTRU U-1	20	21	5.07	0
14	UMTRU U-2	20	21	3.43	0
15	UMTRU U-3	20	0	0	0
16	UMTRU U-4	20	0	0	0
17	MYNTDU-LESHKA U-1	42	0	0	2.50
18	MYNTDU-LESHKA U-2	42	0	0	0.86
19	MYNTDU-LESHKA U-3	42	42	1.8	0.25
20	SONAPANI	2	1	0.53	0.42
TOTAL		384	245	42.80	15.62
NAGALAND : HYDRO					
21	LIKIMRO - 1	8	8	1.76	1.44
22	LIKIMRO - 2	8	8	1.99	0
23	LIKIMRO - 3	8	0	0	1.14
TOTAL		24	16	3.75	2.58
MIZORAM : HYDRO					
24	SERLUI B U-1	4	0	0	2.24
25	SERLUI B U-2	4	0	0	0.70
26	SERLUI B U-3	4	4	2.67	0.70
TOTAL		12	4	2.67	3.64
TRIPURA : HYDRO					
27	GUMTI - 1	5	0	0	0
28	GUMTI - 2	5	5	2.67	3.01
29	GUMTI - 3	5	5	1.25	0
TOTAL		15	10	3.92	3.01
TOTAL STATE (HYDRO) :		535	377	66.93	34.74
Sr. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Feb-18	Feb-17
(i) STATE SECTOR : THERMAL/GAS					
MIZORAM : THERMAL					
1	BAIRABI U-1	6	0	0	0
2	BAIRABI U-2	6	0	0	0
3	BAIRABI U-3	6	0	0	0
4	BAIRABI U-4	6	0	0	0

Monthly Progress Report of February 2018

TOTAL		24	0	0	0
TRIPURA : THERMAL					
5	BARAMURA - 1	5			
6	BARAMURA - 2	5			
7	BARAMURA - 3	6.5			
8	BARAMURA - 4	21	22	12.92	13.42
9	BARAMURA - 5	21	21	1.17	0.58
10	ROKHIA - 1	8			
11	ROKHIA - 2	8			
12	ROKHIA - 3	8	0	0	0
13	ROKHIA - 4	8	0	0	0
14	ROKHIA - 5	8	0	0	0
15	ROKHIA - 6	8	0	0	0
16	ROKHIA - 7	21	22	9.73	13.17
17	ROKHIA - 8	21	21	9.58	7.35
18	ROKHIA - 9	21	21	9.37	11.75
TOTAL		169.5	107	42.76	32.27
MEGHALAYA PRIVATE : THERMAL(COAL)					
19	MPL	53	50	29.94	0
20	Maithon Alloy Ltd.	15	0	0	8.72
21	Shyam Century	14	10	0.01	0.18
22	Adhunik Cement	25	25	15.62	0
TOTAL		107	90	45.56	8.90
ASSAM : THERMAL					
23	LTPS - 1	15	0	0	0
24	LTPS - 2	15	15	6.24	7.19
25	LTPS - 3	15	16	3.99	3.59
26	LTPS - 4	15	0	0	3.36
27	LTPS - 5	20	22	8.80	14.11
28	LTPS - 6	20	20	11.86	13.83
29	LTPS - 7	20	0	0	11.36
30	LTPS - 8	37	16	5.18	15.49
31	NTPS - 1	20	0	0	1.20
32	NTPS - 2	21	21	8.29	10.02
33	NTPS - 3	21	21	9.93	11.19
34	NTPS - 4	11	10	0.91	0.39
35	NTPS - 5	24	12	5.14	4.50
36	NTPS - 6	22	12	4.35	5.51
37	DLF	25	0	0	0.50
TOTAL		301	165	64.69	102.24
TOTAL STATE (THERMAL/GAS) :		614.5	362	153.01	143.41
TOTAL STATE GEN (HY+TH/GAS)		1149.5	739	219.94	178.15

S. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Feb-18	Feb-17
(ii) CENTRAL SECTOR : HYDRO					
1	KHANDONG - 1	25	0	0	4.6
2	KHANDONG - 2	25	26	2.6	0.6

Monthly Progress Report of February 2018

3	KOPILI Stg - II	25	26	4.1	1.9
4	KOPILI - 1	50	51	12.9	8.6
5	KOPILI - 2	50	52	12.4	0.0
6	KOPILI - 3	50	53	2.8	13.6
7	KOPILI - 4	50	53	1.9	10.4
8	DOYANG - 1	25	25	2.1	1.1
9	DOYANG - 2	25	0	0	1.9
10	DOYANG - 3	25	25	2.0	2.0
11	TURIAL- 1	31	30	9.9	0
12	TURIAL- 2	31	28	9.8	0
13	LOKTAK - 1	35	36	16.3	6.4
14	LOKTAK - 2	35	36	14.0	5.5
15	LOKTAK - 3	35	35	10.1	9.1
16	RANGANADI - 1	135	135	13.5	12.9
17	RANGANADI - 2	135	136	9.9	8.6
18	RANGANADI - 3	135	137	12.3	5.2
TOTAL CS HYDRO :		922	884	136.6	92.6
(ii) CENTRAL SECTOR : THERMAL/GAS					
1	KATHALGURI - 1	34	33	15.0	10.0
2	KATHALGURI - 2	34	32	15.2	16.7
3	KATHALGURI - 3	34	30	15.5	10.4
4	KATHALGURI - 4	34	28	10.0	16.0
5	KATHALGURI - 5	34	27	19.1	19.2
6	KATHALGURI - 6	34	27	17.2	10.5
7	KATHALGURI - 7	30	26	12.2	10.9
8	KATHALGURI - 8	30	24	10.3	11.1
9	KATHALGURI - 9	30	23	14.2	12.2
10	R.C. NAGAR - 1	21	0	0	11.1
11	R.C. NAGAR - 2	21	21	11.9	13.0
12	R.C. NAGAR - 3	21	20	10.6	9.8
13	R.C. NAGAR - 4	21	21	10.8	13.3
14	R.C. NAGAR - 5	23	20	5.7	12.5
15	R.C. NAGAR - 6	23	22	12.9	11.6
16	MONARCHAK SOLAR PV	5	5	0.5	0.6
17	MONARCHAK - GTG 1	65.5	65	35.4	38
18	MONARCHAK - STG 1	35.5	36	18.8	0
19	PALLATANA - GTG 1	232	222	102.1	114.1
20	PALLATANA - STG 1	131	125	67.3	72.8
21	PALLATANA - GTG 2	232	224	92.2	121.3
22	PALLATANA - STG 2	131	125	65.9	74.0
23	BgTPP - 1	250	251	127.5	127.5
24	BgTPP - 2	250	255	131.7	0
25	BgTPP - 3				
TOTAL CS (THERMAL/GAS) :		1756	1657	822.0	697.9
TOTAL CS GEN (HY+TH/GAS)		2678	2541	958.6	790.5
TOTAL NER GEN (HY+TH/GAS)		3827.5	3280	1178.54	968.65

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Plant Load Factor (PLF)

PLANT LOAD FACTOR OF THE THERMAL/GAS STATIONS IN N.E.R.

Monthly Progress Report of February 2018

S. No.	Power Station	State/Constituent	Installed Capacity (MW)	Generation (in MU)	Stationwise PLF(%)
1	LTPS*	AEGCL	157.00	36.07	42.94
2	NTPS*	AEGCL	119.00	28.62	43.01
3	Baramura	Tripura	42.00	14.09	45.09
4	Rokhia	Tripura	95.00	28.67	67.72
5	AGBPP	NEEPCO	291.00	128.8	64.48
6	AGTPP	NEEPCO	130.00	51.8	57.32
7	Monarchak	NEEPCO	102.00	54.2	79.86
8	Pallatana	OTPC	727.00	327.5	66.62
9	BgTPP	NTPC	500.00	259.2	81.31

*LTPS -- Lakwa Thermal Power Station; *NTPS -- Namrup Thermal Power Station

6

Voltage Profile

1. Maximum and Minimum Voltage (KV) Of Important Substations

S. No.	NAME of SUB-STATION	MAXIMUM (kV)	MINIMUM (kV)
1	MISA 400 kV	425	395
2	BALIPARA 400 kV	422	393
3	BONGAIGAON 400 kV	419	395
4	RANGANADI 400 kV	430	390
5	PALLATANA 400 kV	423	413
6	SILCHAR 400 kV	421	401
7	BISHWANATH CHARIALI 400 kV	421	390
8	AZARA 400 kV	412	401
9	BgTPP 400 kV	422	398
10	MISA 220 kV	231	211
11	SALAKATI 220 kV	244	214
12	AGBPP 220 kV	236	229
13	MOKOKCHUNG 220 kV	242	218
14	AIZAWL 132 kV	140	116
15	IMPHAL 132 kV	139	124
16	Byrnihat 400kV	422	403
17	Kahilipara 132kV	139	126
18	Nirjuli 132kV	138	127

2. Voltage Range In KV as Percentage Of Time For The Block

SUB-STATION	kV < 360	360 < kV < 380	380 < kV < 420	kV > 420
MISA	0	0	98.98	1.02
BALIPARA	0	0	99.98	0.02
BONGAIGAON	0	0	100.00	0
PALATANA	0	0	84.49	15.51
SILCHAR	0	0	99.85	0.15
Azara	0	0	100.00	0
Biswanath Charali	0	0	100.00	0
BgTPP	0	0	100.00	0
Byrnihat	0	0	100.00	0

Inter-Regional Energy Exchange, Major Grid Disturbance and Meetings held by
NERPC

1. Inter-Regional Energy Exchange

All Fig. in MU

NER to ER	109.55
ER to NER	257.4
NET IMPORT FROM ER	147.85
NER to NR	176
NR to NER	111
NET IMPORT FROM NR	-65
NET IMPORT	82.85

2. Major Grid Disturbances:

None.

3. Meetings Held by NERPC:

Sr. No.	Meeting	Date	Venue
1.	49 th PCC Meeting	13.02.2018	Guwahati
2.	141 st OCC Meeting	14.02.2018	Guwahati

Status of Progress

1. Generating Projects in NER

Monthly Progress Report of February 2018

Progress of Thermal Power Generation Projects in NER					
Central Sector					
Sr. No.	Plant	Units	Capacity in MW	Commissioning Schedule	Remarks
1	NTPC Bongaigaon	3rd		Jul-17	<ul style="list-style-type: none"> Boiler Drum Lifting Feb'13 & Boiler Hydro test Mar'14 Next Milestone : Boiler Light Up Nov'16

Progress of Hydro Power Generation Projects in NER					
Central Sector					
Sr. No.	Plant	Units	Capacity in MW	Commissioning Schedule	Remarks
1	Subhansiri Lower (Ar. Pradesh/NHPC)	8	8x250	Syn. Comm: 2016-18	<ol style="list-style-type: none"> Signing of MoU with State Government of Assam Law & Order problem Issue of Downstream Impact Assessment & demand for stoppage of works by anti-dam activists. Since 16.12.2011 work.
2	Kameng (Ar. P/NEEPCO)	4	4x150	Mar-18	Work in Progress
3	Pare (Ar. P/NEEPCO)	2	2x55	Mar-18	Work in Progress
4	Demwe Lower (Ar. P)	6	5x342; 1x40	2016-17	
State Sector					
1	Ganol SHP (MePGCL)	3	3x7.5	Oct-15	LOI issued on 22nd Dec,2012. Work Order is being issued.
3	Lakroh MHP (MePGCL)	1	1.5		Delayed due to rain.

2. Transmission Lines In NER

Progress of Transmission Lines in NER					
POWERGRID					
Sr. No.	Name of Lines	Total length in	Target Date		Remarks
			Scheduled	Revised	

Monthly Progress Report of February 2018

		Km			
1	400 kV Kameng-Balipara D/C	144	Aug-13	Mar-18	ATS slowed down to the extent possible to match with generation of Kameng.
2	400 kV Lower Subansiri-Biswanath Chariyali D/C I	335	Aug-13	Mar-18	Completion matching with Gen.(Sch. uncertain). Works Standstill on account of local disturbance/agitation against big dam. Generation schedule uncertain.
3	400 kV Lower Subansiri-Biswanath Chariyali D/C II	348	Aug-13	Mar-18	Completion matching with Gen.(Sch. uncertain). Works Standstill on account of local disturbance/agitation against big dam. Generation schedule uncertain.
4	400 kV Silchar-Melriat(New) D/C (Charged at 132 kV)	248	Dec-12	Feb-18	Major portion of line in forest. severe ROW in vicinity of Aizawl town due to stiff resistance from influential local owner. Package re-awarded in Jun'16.
5	400 kV D/C Jigmeling - Alipurduar TL	-	Jan-18	Mar-19	Work in Progress
6	132 kV Melriat (New) - Sihhmui	-	Dec-12	Feb-18	Erection completed. Testing under progress. Commissioning matching with upstream Silchar-Melriat link.
7	Phulbari (Meghalaya) - Ampati	-	Sep-19	Sep-19	
8	LILO of 132 kV Ranganadi-Nirjuli at Pare	-		Oct-17	
9	132 kV Tezu-Namsai S/C	96	Dec-12	Feb-18	Progress affected due to severe ROW Problem.
10	132KV D/C Interconnecting Silchar-Melriat T/L using 220 KV Towers	-	Mar-17	June-17	Work in Progress
TSECL					
11	132 kV Monarchak-Surajmani Nagar D/C	50	Jun-14	Mar-17	Work in Progress
12	132 kV Surjyamani Nagar-Badarghat D/C	6		Aug-16	Fund proposed in World Bank.
13	132 kV Surjyamani Nagar(TSECL)-Rokhia DC	32.32	Nov-14	Mar-14	3.598 km line in forest land for which TSECL will supply for forest clearance. LOA

Monthly Progress Report of February 2018

					issued.
14	132 kV Gamai Tilla - Dhalabil	31		Sep-13	ROW problems affected the work
15	132 kV P K Bari - Kanchanpur	47		Mar-15	All works completed in non forest land. Stage I clearance received and compliance for conditions completed.
MePTCL					
16	132 kV Rongkhon-Ampati D/C	1		Dec-17	1. Date of award of contract is 29.07.2011. 2. Schedule date of completion was 29.07.2012. 3. Anticipated date of completion is December 2017. Work is presently under progress.
MeECL					
17	LILO of 132 kV Mawlai-Cherrapunjee at Mawngap	10		Mar-18	Work held up due to ROW problem. The PHED, GOME has complained and filed and FIR against Loc No. 3 to 8. Overall status is 90% completed.
18	LILO of 132 kV NEIGRIHMS - Khliehriat at Lad Nongkrem	6		Dec-17	Delay in supply of materials for line by the vendor.
19	LILO of 132 kV Rongkhon - Ampati at Praharnagar	20		Sep-18	Survey works for 132 kV LILO is completed. LOA for the LILO is yet to be awarded.
Mizoram					
20	132 kV Tural-Aizawl	12		Mar-14	
AEGCL					
21	BTPS - Rangia D/C line	326.374	Mar-13	Mar-18	1. Overall 89% completed. A. All normal foundation completed. B. 5 nos. of Pile foundation completed.
22	LILO of one Ckt. of Samaguri - Sarusajai D/C line at Sonapur sub-station	26.624	Dec-13	Mar-18	Water logging & harvesting are reasons to be attributed for delaying.
23	132 kV DC Sonapur-Jagiroad Tr. Line.	51.75	Nov-13	Mar-18	Compensation/ROW Issue.
24	132 kV DC Sonapur-Chandrapur Tr. Line	28.438	Nov-13	Mar-18	Railway X'ing/ ROW/ Compensation issue.
26	Agia- Sonapur (Hatchingmari) S/C	102.51	April -17	Mar-18	

Monthly Progress Report of February 2018

	line on D/C tower				
--	-------------------	--	--	--	--

Commercial Status

1. Entitlement, Schedule, Drawal and DSM Charges for the month of February 2018

Name of states	Entitlement from ISGS in NER (in MU)	Entitlement from ISGS in ER (in MU)	Total Entitlement (in MU)	Scheduled energy against entitlement (in MU)	Schedule Drawal (for Dev A/c) (Ex-PP State) (in MU)	Actual Drawal from Grid (in MU)	Over Drawal (+) / Under Drawal (-) (in MU)	Dev Payable (-) / Receivable (+) (including additional deviation) (Rs. In Cr)
Arunachal Pradesh	45.700	3.875	49.575	48.166	52.165	68.636	16.471	-3.967
ASEB	413.243	96.583	509.826	488.436	538.252	546.719	8.467	-2.380
Manipur	76.879	0.000	76.879	54.431	75.196	73.113	-2.083	0.480
MeSEB	99.495	0.000	99.495	62.552	101.810	96.628	-5.182	1.202
Mizoram	41.132	2.839	43.971	42.286	26.585	24.278	-2.308	0.409
Nagaland	43.487	8.546	52.033	49.568	53.420	53.651	0.231	-0.123
Tripura	132.947	0.000	132.947	121.884	60.980	59.986	-0.994	0.309
PGCIL-HVDC	1.508	0.000	1.508	0.777	0.777	0.448	-0.330	0.077

(Source: PSP, NERPC)

* In addition to total entitlement, bilateral exchanges and purchase/sell through traders/exchange are covered in Annexure-III.

2. Schedule for ISGS Generation for the month of February 2018.

ISGS	Schedule (MU)	Injection (MU)
AGTCCPP	48.82	51.30
AGBPP	122.94	124.93
KOPIII - I HEP	27.97	36.37
KOPIII - II HEP	3.88	
KHANDONG HEP	2.33	

Monthly Progress Report of February 2018

DHEP	3.78	4.10
RHEP	34.77	35.33
LOKTAK HEP	38.72	39.59
OTPC, PALLATANA	312.00	314.94
BgTPP	248.60	239.55

Source: Revised PSP, NERPC.

3. Cumulative Wt. Average Share Allocation (%) (Up to this month) in CS Stations

States	Kopili (200 MW)	Kopili- II (25 MW)	Khandong (50 MW)	RHEP (405 MW)	DHEP (75 MW)	AGBPP (291 MW)	AGTCCPP (130 MW)	BgTPP (250 MW)	OTPC (726.6 MW)	Loktak HEP (105 MW)
Arunachal Pradesh	5.191	5.992	4.194	18.462	6.852	5.694	6.702	5.1325	3.0303	4.940
Assam	53.455	52.355	56.285	43.328	43.808	56.503	43.720	57.420	33.058	29.445
Manipur	7.395	6.945	6.555	8.373	7.865	8.105	8.225	7.505	5.7851	42.508
Meghalaya	17.395	13.675	16.905	11.505	11.455	11.815	12.633	10.980	10.882	0.000
Mizoram	4.610	6.040	3.940	5.700	5.250	5.410	6.0	5.415	3.0303	5.020
Nagaland	6.147	5.735	6.653	5.335	17.967	5.805	5.737	4.930	3.7190	6.435
Tripura	5.807	9.258	5.468	7.297	6.803	6.668	16.983	7.6175	26.9972	11.652
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	98.995	86.5019	100.00

4. Share Allocation (%) in CS Stations from Eastern Region

States	Farakka-I	Kahelgaon-I	Kahelgaon-II	Talcher	Farakka-III
Assam	2.455737%	2.104847%	5.093479%	2.095419%	0.000000%
Meghalaya	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%
Nagaland	0.429803%	0.424446%	0.000000%	0.424823%	0.000000%
Arunachal Pradesh	0.191917%	0.191747%	0.000000%	0.196898%	0.000000%
Mizoram	0.141736%	0.141610%	0.000000%	0.141736%	0.000000%
Assam (NVVN Coal Power)	0.091912%	0.091912%	0.091912%	0.091912%	0.091912%

5. Details of Fixed and Energy Charges of CS Stations for FY 2017-18

Projects	Installed Capacity (MW)	Design Energy (GWh)	Annual Fixed Charge (Crore)	Reference
KOPILI HEP	200	1186.14	109.8446	As per CERC order dated 13.01.2016 in petition No 46/GT/2015.

Monthly Progress Report of February 2018

KOPILI - II	25	86.30	13.2283	As per CERC order dated 23.01.2012 in pet. No 298/2009
KHANDONG HEP	50	277.61	40.3627	As per CERC order dated 13.01.2016 in petition No 42/GT/2015.
RHEP	405	1509.69	260.4693	As per CERC order dated 05.01.2016 and corrigendum 07.03.2016 in petition No.40/GT/ 2015.
DHEP	75	227.24	101.5605	As per CERC order dated 13.01.2016 and corrigendum dtd. 07.03.16 in petition No 43/GT/ 2015.
AGBPP	291	NA	296.5691	As per CERC order dated 15.02.2016 in Pet. No 459/GT/ 2014& 41/GT/2015. Base Rate of energy Charge as per the CERC Order
AGTPP	84	NA	71.7633	As per CERC order dated 11.03.2011 in Pet.No 299/2009,^Base Energy charge as per CERC order
LOKTAK HEP	105	448.00	107.1660	As per CERC order dated 22.10.2012 in RP No. 24/2011 in Pet.No 108/2010
PALLATANA	726.6	NA	899.0405	As per CERC order dated 30.03.2017 in Pet. No 129/GT/2015
BgTPP	250	NA	NA	

Regional Transmission Account (RTA) for the month of February 2018

Name of DIC	Demand/ Injection Zone	PoC Charges	Reliability Support Charges	HVDC Charges	Total
Arunachal Pradesh	Arunachal Pradesh	19177368.74	4497194.64	1377861.67	25052425.05
ASEB	Assam	331754683.51	32188040.34	9861851.81	373804575.66
Manipur	Manipur	29985334.70	5478976.88	1678662.56	37142974.14
MeECL	Meghalaya	39589562.97	7233879.58	2216334.01	49039776.55
Mizoram	Mizoram	31509216.41	3057138.24	936653.61	35503008.26
Nagaland	Nagaland	29499978.01	3739019.02	1145569.94	34384566.97
Tripura	Tripura	25985269.57	8503607.40	2605356.37	37094233.34
HVDC BNC	Assam	607277.13	58920.23	18052.13	684249.48

Grid Disturbance Report

List of Important Grid Disturbances in N E Regional Grid during February 2018

1. At 11:40 Hrs on 04.01.2018, 132 kV Palatana - Udaipur line, 132 kV Agartala - Rokhia I & II Lines tripped. It was restored at 12:16 hrs. Outage duration: 0:36 hrs. Load Loss: 23 MW, Generation Loss: 156 MW. Category- GD-I. Due to tripping of these elements, Monarchak Power Station, Rokhia Power Station, Udaipur and Rabindranagar areas of Tripura Power System were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.
2. At 17:45 Hrs on 14.02.18, 132 kV Dimapur (PG)-Dimapur (DoP, Nagaland) II line tripped. It was restored at 20:37 hrs. Outage duration: 2:52 hrs. Load Loss: 39 MW, Generation Loss: 0 MW. Category- GD-I. Due to tripping of this element, Dimapur area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.

Annexures and Exhibits

A-1

Major Reservoirs Level of The Month

	FRL	MDDL	Feb 2018	Feb 2017
	(mtr.)	(mtr.)	Level in mtr/ft	Level in mtr/ft
KHANDONG	719.3	704	719.5	711.2
KOPILI	609.5	592.83	609.4	599.1
LOKTAK	768.5	766.2	769.2	767.5
BARAPANI	3220 ft	3150 ft	3176.6	3177.0
GUMTI	93.55	83.6	90.2	89.8
DOYANG	333	306	324.5	313.5

A-2

Frequency Analysis For The Month of February 2018

Frequency	Freq. (in Hz.)	Date (D.M.Y)
1. Maximum Frequency	50.21	17.02.2018
2. Minimum Frequency	49.70	23.02.2018
3. Monthly Average	49.98	

Frequency in Hz as %age of Time for the Blocks

$f < 49.90$	$49.90 < f < 50.05$	$f > 50.05$
9.69	80.25	10.06

Daily Frequency Variation Index (FVI):

Date	FVI	Date	FVI
01-02-2018	0.032	17-02-2018	0.041
02-02-2018	0.032	18-02-2018	0.028
03-02-2018	0.028	19-02-2018	0.044
04-02-2018	0.027	20-02-2018	0.047
05-02-2018	0.032	21-02-2018	0.044
06-02-2018	0.042	22-02-2018	0.051
07-02-2018	0.054	23-02-2018	0.062
08-02-2018	0.050	24-02-2018	0.039
09-02-2018	0.072	25-02-2018	0.027
10-02-2018	0.042	26-02-2018	0.025
11-02-2018	0.029	27-02-2018	0.041
12-02-2018	0.033	28-02-2018	0.069
13-02-2018	0.032		
14-02-2018	0.036		
15-02-2018	0.036		
16-02-2018	0.037		

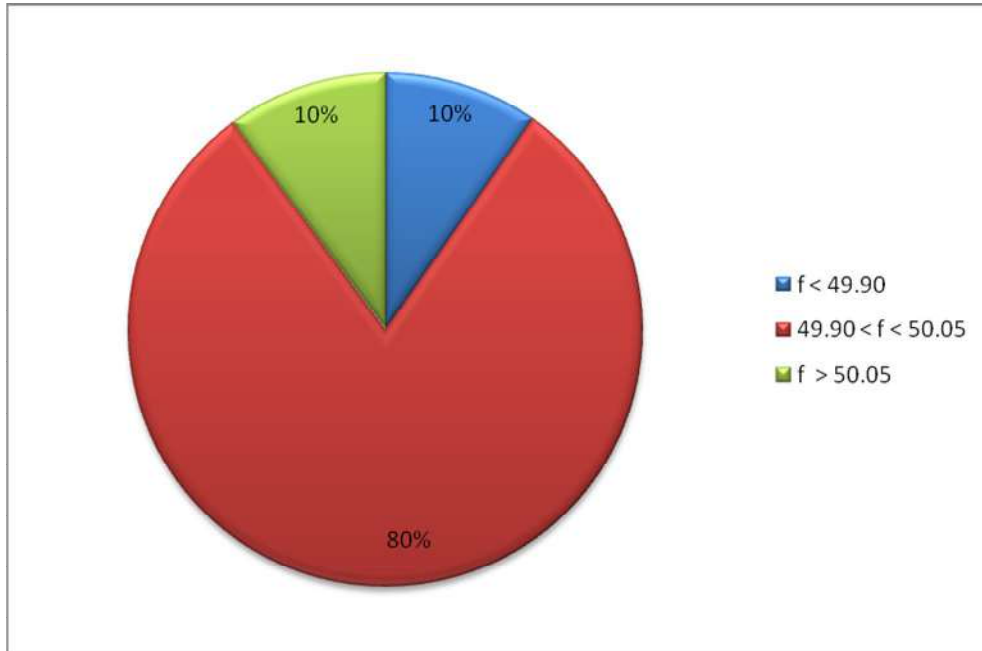
A-3

Consolidated Scheduled Bilateral Exchanges in NE Region during February 2018

Name of Trader	Energy at NER periphery (in MWH)
APPCPL	46551.02
GMRETL	673.12
MPPL	69017.06
OTPC	43680

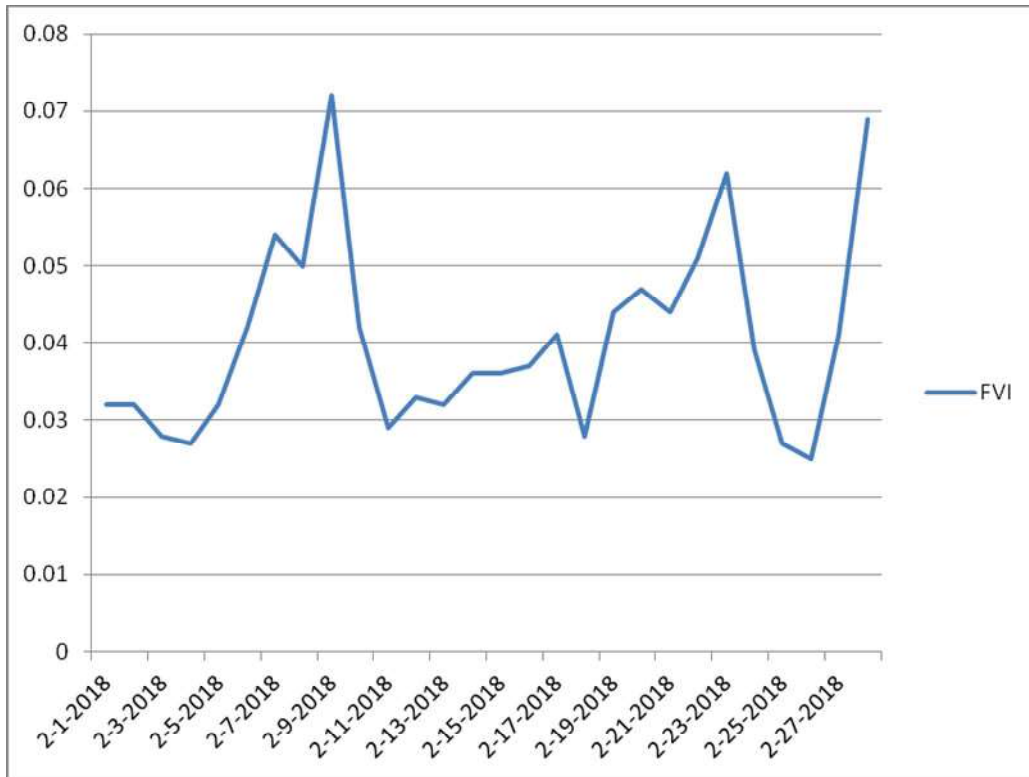
B-1

Frequency Duration for February 2018



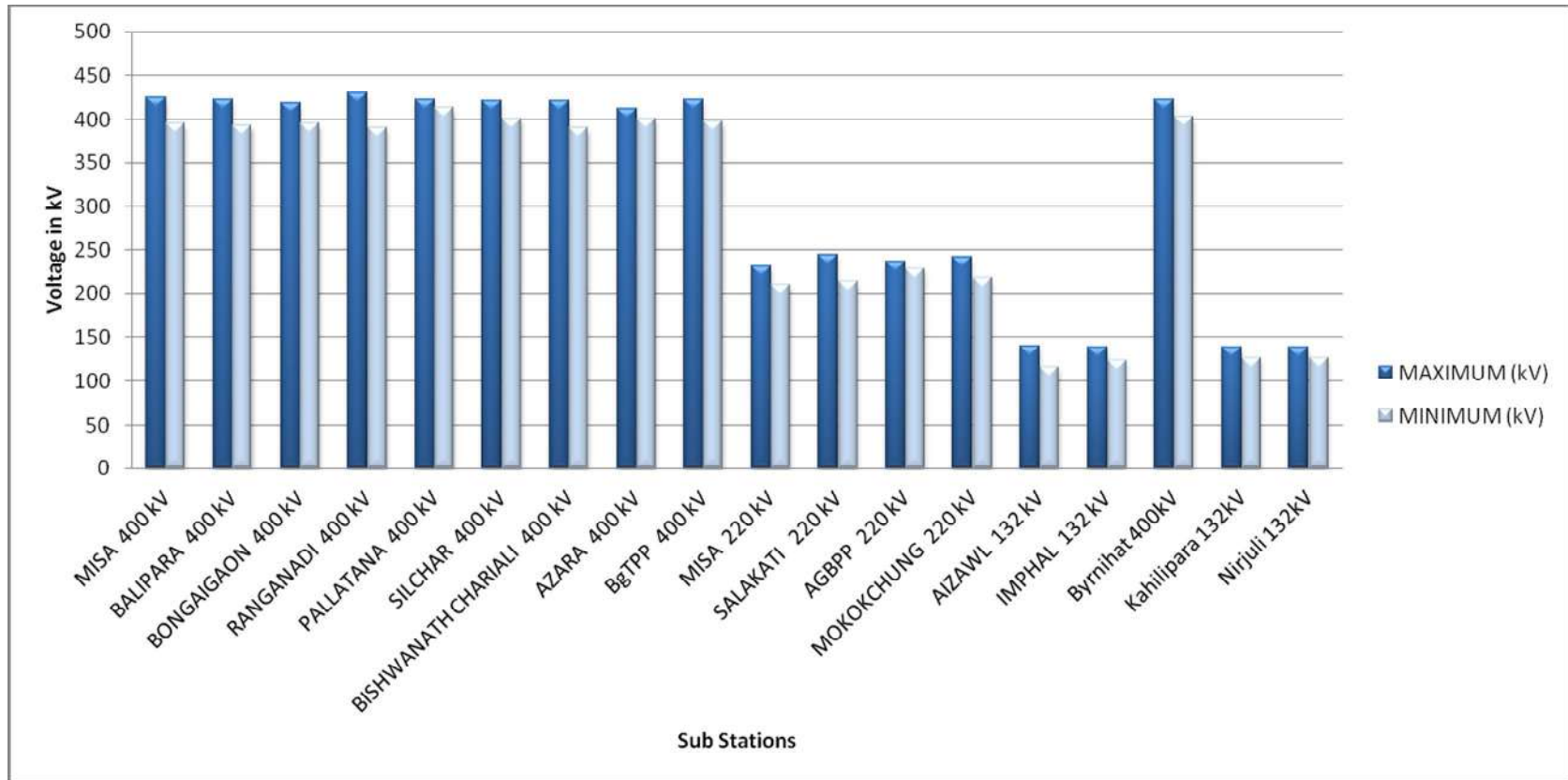
B-2

FVI Characteristic for February 2018



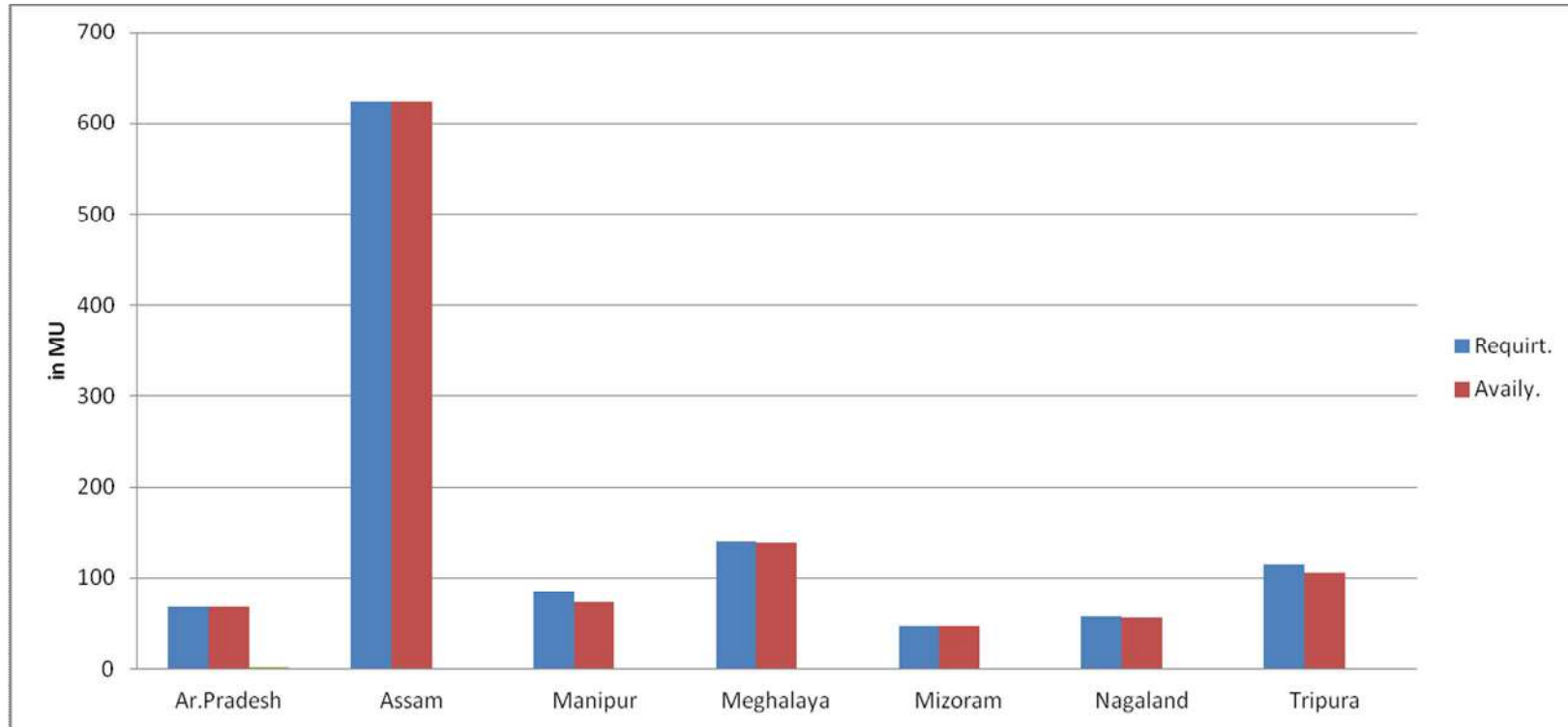
B-3

Voltage Variation Range for February 2018



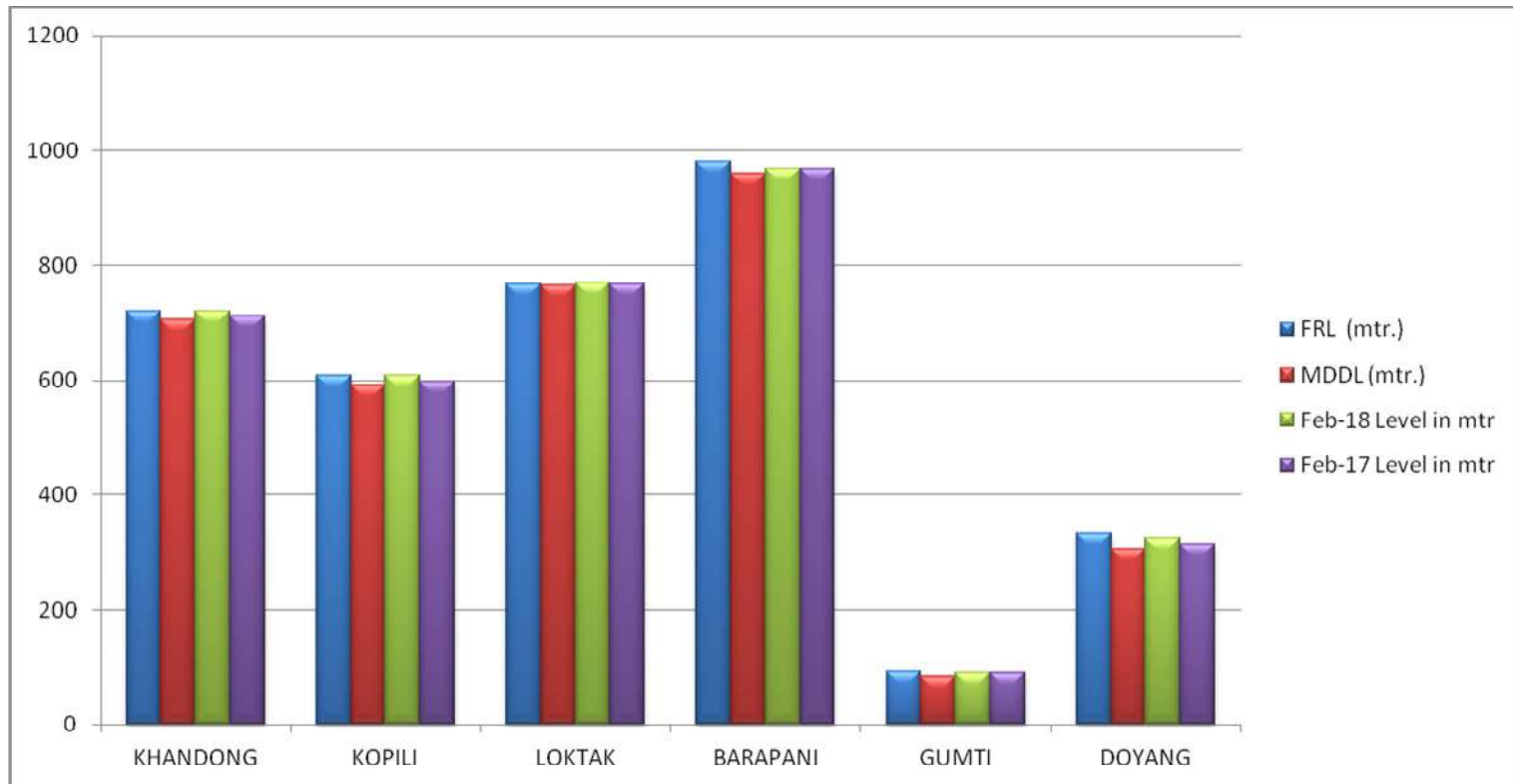
B-4

Energy Profile for February 2018



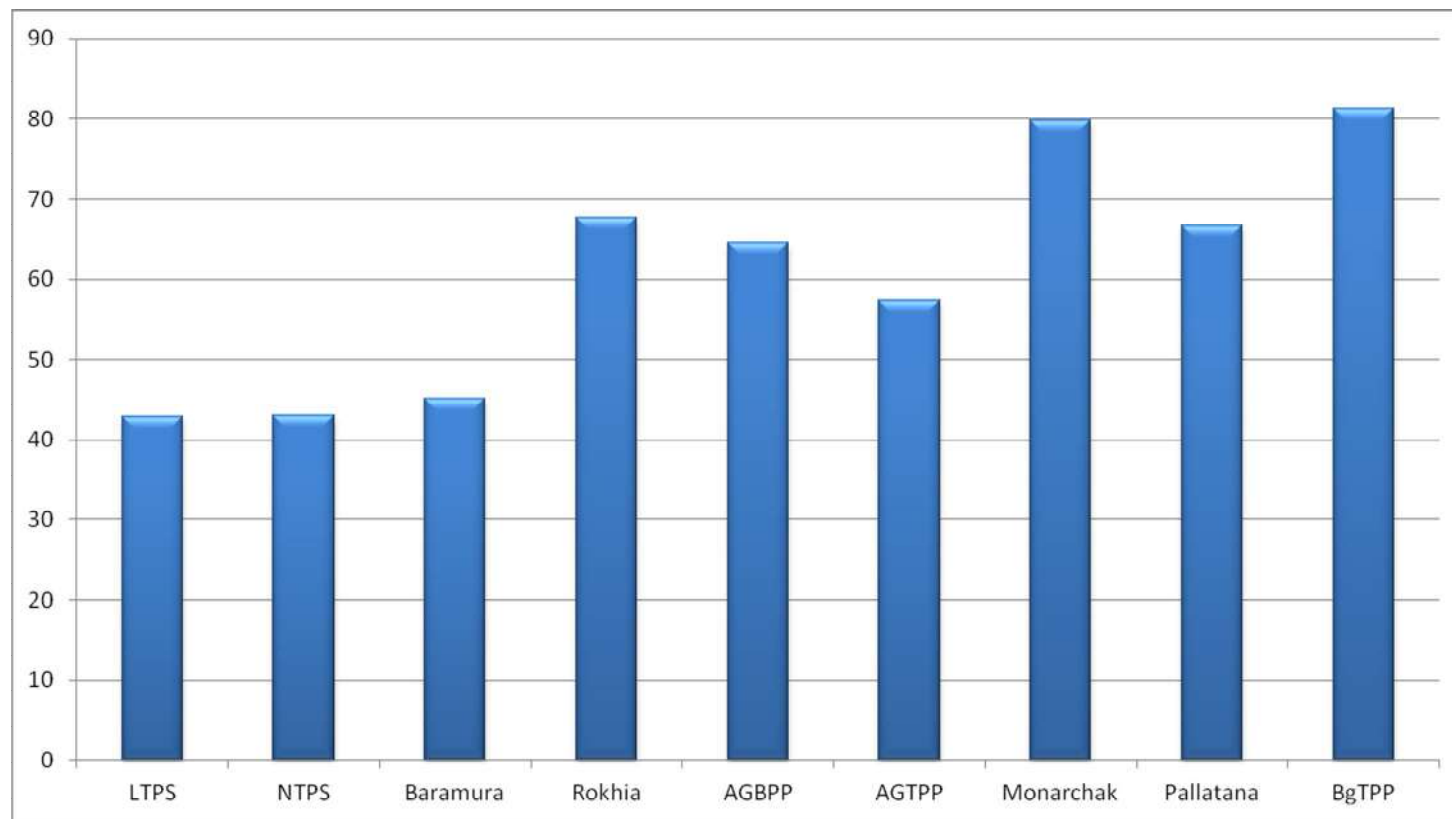
B-5

Reservoir Profile for February 2018



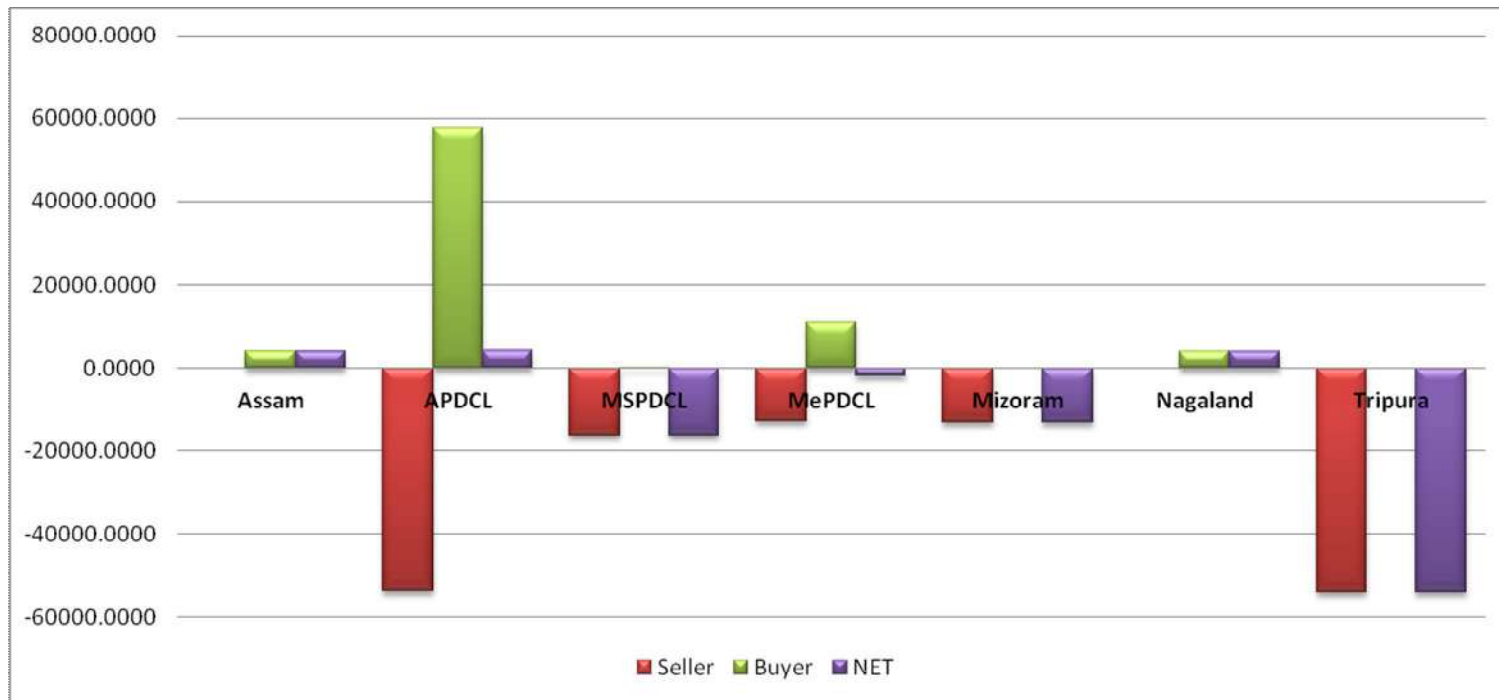
B-6

Station-wise Plant Load Factor for February 2018



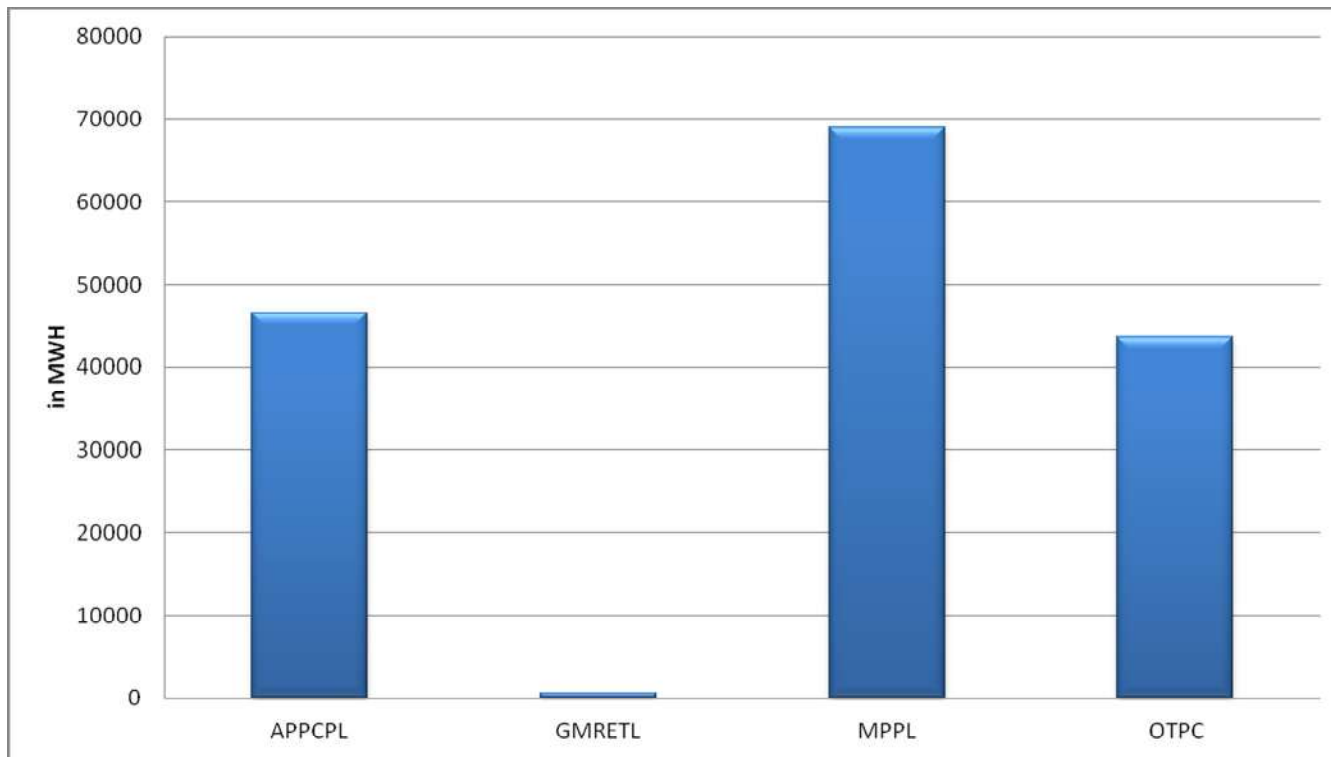
B-7

Collective Transaction through IEX Power Exchange February 2018



B-8

Consolidated SEB in NE Region for the month of February 2018





सत्यमेव जयते

Progress Report for the month of March 2018

Government of India
Ministry of Power
North Eastern Regional Power Committee
Shillong

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Brief highlights of North Eastern Regional Power System for the month of March 2018

- The maximum unrestricted demand during the month of March 2018 was 2283 MW, which was 2387 MW in the month of February 2018. The peak demand met in NER during the period under review was 2250 MW, which was 2333 MW in the previous month.
- The energy requirement during the month of March 2018 was 1335.53 MU, which was 1135.78 MU in the month of February 2018. The energy availability in NER during the period under review was 1295.17 MU, which was 1113.64 MU in the previous month.
- The maximum, minimum & average system frequencies were 50.25 (21.03.18), 49.68 (14.03.18) & 49.97 Hz respectively. The maximum, minimum & average FVI were 0.077, 0.022 & 0.047 respectively. The average FVI was more than its previous month's figure of 0.040. (Refer Annex-II).
- Maximum export of power from NER to ER was 698 MW (on 03.03.18 at 05:00 Hrs) and that from ER to NER was 883 MW (on 03.03.18 at 18:00 Hrs). The same Inter-Regional Exchanges of NER with NR and vice versa were 657 MW (on 03.03.18 at 16:30Hrs.) and 685 MW(on 02.03.18 at 20:30Hrs.) respectively. Total net energy import during the month was 96.02 MU (5.02 MU from ER and 91 MU from NR).

Salient Features of North Eastern Regional Grid for March 2018

1	New Unit/Transmission Line/Transformer commissioned during this month	LILO of 132 kV Ranganadi-Nirjuli at Pare commissioned on 03.03.2018.	
2	Number of major grid disturbance during this month		
		Mar-18	Feb-17

Monthly Progress Report of March 2018

	Installed Capacity of the Region (in MW)		
3	(i) Grid	3702.00	3496.00
	(ii) Isolated	125.00	124.00
	Total (As on 31.03.2018)	3827.00	3620.00
	Energy Generation in MU (Gross):		
4	Thermal/Gas	1029.79	854.71
	Hydel	211.36	127.34
	Solar	0.70	0.60
	Total	1241.85	982.65
	Demand in MW:	2283	2243
5	Registered Peak Demand	2250	2234
	Peak Demand Met	1.47	0.40
	Shortage (%age)		
	Regional Energy (Gross) in MU:		
6	Energy Requirement	1335.53	1142
	Energy Availability	1295.17	1100
	Surplus (+)/Deficit(-) (%age)	-3.12	-3.82
	Inter Regional Energy Exchange in MU:		
7	NER -----> ER	146.58	162.56
	ER -----> NER	151.6	38.8
	NER -----> NR	41	500
	NR -----> NER	136	277

Monthly Progress Report of March 2018

	Net Import	96.02	-346.76
	Frequency Profile:		
8	Average Frequency (Hz)	49.97	49.95
	Average Frequency Variation Index	0.047	-

3

Monthly Power Supply Position

1. Energy Generation In The Region For the Month of March 2018

All figures in MU

Constituents	Hydro		Coal/Oil fired		Gas Based (OC/CC)		Solar		Total (Gen)	Total (Gen)
	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net
	A	B	C	D	E	F	G	H	I	J
State Sector :										

Monthly Progress Report of March 2018

Assam	21.27				81.19				102.46	
Meghalaya	53.69								53.69	
Mizoram	2.36								2.36	
Tripura	5.43				53.70				59.13	
Nagaland	2.61								2.61	
Total (S. Sector)	85.36				134.89		0		220.25	
Central Sector :										
NEEPCO:										
Khd+Kop+Kop-II	38.3								38.3	
Kathalguri (AGBPP)					125.1				125.1	
RC Nagar					52.0				52.0	
Doyang	4.4								4.4	
Ranganadi	50.7								50.7	
Tural	0								0	
Monarchak					56.7		0.7		57.4	
NHPC:										
Loktak	32.6								32.6	
OTPC:										
Pallatana Gas PP					365.2				365.2	
NTPC:										
BgTTP			295.9						295.9	
Total (C. Sector)	126.0		295.9		599.0		0.7		1021.6	
Total NER	211.36		295.9		733.89		0.7		1241.85	

2. Requirement Vs Availability In The Region

STATES	ENERGY requirement (MU) at 50 Hz				POWER requirement (MW) at 50 Hz			
	<i>Availability & L/S at prevailing frequency</i>				<i>Availability & L/S at prevailing frequency</i>			
	Requirement	Availability	Shortfall	% Shortfall	Requirement	Availability	Shortfall	% Shortfall
Ar. Pradesh	70.22	69.08	1.14	1.65	129.04	124.0	5.04	4.06
Assam	669.34	642.14	27.2	4.24	1472.30	1446.0	26.3	1.82
Manipur	70.55	69.45	1.1	1.58	184.89	178.0	6.89	3.87
Meghalaya	145.33	145.29	0.04	0.03	307.0	307.0	0	0.00
Mizoram	50.97	50.21	0.76	1.51	99.95	91.0	8.95	9.84
Nagaland	68.72	60.37	8.35	13.83	148.0	120.0	28	23.33
Tripura	260.38	258.63	1.75	0.68	292.55	292.0	0.55	0.19

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REGION	1335.53	1295.17	40.36	3.12	2283.0	2250.0	33	1.47
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3. Estimation Of Peak Demand (In MW)

Constituents	Peak Demand Met	Date	Freq (Hz)	Estimated Peak Demand at 50 Hz
Arunachal Pradesh	124	12.03.18	49.99	129
Assam	1446	02.03.18	49.97	1472
Manipur	178	01.03.18	50.02	185
Meghalaya	307	09.03.18	49.94	307
Mizoram	91	03.03.18	50.02	100
Nagaland	120	22.03.18	50.00	148
Tripura*	256	28.03.18	50.08	257
REGION	2250	02.03.18	50.04	2283

4. Estimation of Energy Requirement (In MU)

Constituents	Generation	Energy Drawal from Grid		Energy Availability	Actual Requirement
		Schedule	Drawal		
Arunachal Pradesh	0	56.35	69.08	69.08	70.22
Assam	102.46	554.92	558.36	642.14	669.34
Manipur	0	73.77	69.45	69.45	70.55
Meghalaya	53.69	107.52	101.04	145.29	145.33
Mizoram	2.36	35.40	38.10	50.21	50.97
Nagaland	2.61	56.53	57.78	60.37	68.72
Tripura	59.13	97.44	98.71	258.63	260.38
REGION	220.25	981.93	992.52	1295.17	1335.53

*Tripura(excluding Bangladesh)

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Station-Wise Energy Generated (MU) and Peak Generation (MW)

S. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Mar-18	Mar-17
(i) STATE SECTOR : HYDRO					
ASSAM : HYDRO					
1	LANGPI U-1	50	50	10.20	2.32
2	LANGPI U-2	50	51	10.39	9.43
3	MYNTRIANG	3	2	0.68	0

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TOTAL		103	103	21.27	11.75
MEGHALAYA : HYDRO					
3	UMIAM STAGE - 1 U-1	9	9	2.55	1.14
4	UMIAM STAGE - 1 U-2	9	9	2.55	0.32
5	UMIAM STAGE - 1 U-3	9	9	2.52	0.60
6	UMIAM STAGE - 1 U-4	9	9	1.37	1.01
7	UMIAM STAGE - 2 U-1	10	10	1.54	0.68
8	UMIAM STAGE - 2 U-2	10	10	3.12	0.92
9	UMIAM STAGE - 3 U-1	30	20	6.06	2.12
10	UMIAM STAGE - 3 U-2	30	28	10.64	0
11	UMIAM STAGE - 4 U-1	30	30	5.31	2.24
12	UMIAM STAGE - 4 U-2	30	30	6.11	1.12
13	UMTRU U-1	20	21	4.92	0
14	UMTRU U-2	20	21	4.75	0
15	UMTRU U-3	20	0	0	0
16	UMTRU U-4	20	0	0	0
17	MYNTDU-LESHKA U-1	42	35	0.47	2.36
18	MYNTDU-LESHKA U-2	42	42	1.33	5.44
19	MYNTDU-LESHKA U-3	42	0	0	5.01
20	SONAPANI	2	1	0.46	0.42
TOTAL		384	284	53.69	23.38
NAGALAND : HYDRO					
21	LIKIMRO - 1	8	8	1.11	1.91
22	LIKIMRO - 2	8	7	0.83	15.0
23	LIKIMRO - 3	8	7	0.67	1.83
TOTAL		24	22	2.61	18.74
MIZORAM : HYDRO					
24	SERLUI B U-1	4	0	0	1.90
25	SERLUI B U-2	4	0	0	0.10
26	SERLUI B U-3	4	4	2.36	0.66
TOTAL		12	4	2.36	2.66
TRIPURA : HYDRO					
27	GUMTI - 1	5	0	0	0
28	GUMTI - 2	5	5	2.83	3.42
29	GUMTI - 3	5	5	2.60	0
TOTAL		15	10	5.43	3.42
TOTAL STATE (HYDRO) :		535	423	85.36	59.95
Sr. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Mar-18	Mar-17
(i) STATE SECTOR : THERMAL/GAS					
MIZORAM : THERMAL					
1	BAIRABI U-1	6	0	0	0
2	BAIRABI U-2	6	0	0	0
3	BAIRABI U-3	6	0	0	0
4	BAIRABI U-4	6	0	0	0
TOTAL		24	0	0	0
TRIPURA : THERMAL					
5	BARAMURA - 1	5			

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6	BARAMURA - 2	5			
7	BARAMURA - 3	6.5			
8	BARAMURA - 4	21	22	12.33	9.55
9	BARAMURA - 5	21	23	10.00	5.58
10	ROKHIA - 1	8			
11	ROKHIA - 2	8			
12	ROKHIA - 3	8	0	0	0
13	ROKHIA - 4	8	0	0	0
14	ROKHIA - 5	8	0	0	0
15	ROKHIA - 6	8	0	0	0
16	ROKHIA - 7	21	22	10.39	14.52
17	ROKHIA - 8	21	21	10.51	1.45
18	ROKHIA - 9	21	21	10.47	11.83
TOTAL		169.5	109	53.70	42.92
MEGHALAYA PRIVATE : THERMAL(COAL)					
19	MPL	53	0	0	28.70
20	Maithon Alloy Ltd.	15	0	0	0
21	Shyam Century	14	0	0	9.81
22	Adhunik Cement	25	0	0	0
TOTAL		107	0	0	38.51
ASSAM : THERMAL					
23	LTPS - 1	15	0	0	0
24	LTPS - 2	15	15	6.32	9.58
25	LTPS - 3	15	15	3.57	8.74
26	LTPS - 4	15	0	0	0
27	LTPS - 5	20	20	12.82	15.42
28	LTPS - 6	20	20	13.19	10.07
29	LTPS - 7	20	21	5.07	13.91
30	LTPS - 8	37	26	9.18	17.54
31	NTPS - 1	20	0	0	0.24
32	NTPS - 2	21	20	8.42	8.99
33	NTPS - 3	21	21	10.36	9.73
34	NTPS - 4	11	8	3.49	2.18
35	NTPS - 5	24	12	4.69	6.24
36	NTPS - 6	22	12	4.08	4.57
37	DLF	25	0	0	0.59
TOTAL		301	190	81.19	107.8
TOTAL STATE (THERMAL/GAS) :		614.5	299	134.89	189.23
TOTAL STATE GEN (HY+TH/GAS)		1149.5	722	220.25	249.18

S. No.	Power Stations/Units	Installed Capacity (MW)	Peak Generation (MW)	Energy Generation (MU)	
				Mar-18	Mar-17
(ii) CENTRAL SECTOR : HYDRO					
1	KHANDONG - 1	25	26	4.9	1.4
2	KHANDONG - 2	25	0	0	3.0
3	KOPILI Stg - II	25	26	3.7	6.7
4	KOPILI - 1	50	52	10.3	14.0
5	KOPILI - 2	50	54	10.7	0

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6	KOPILI - 3	50	0	0	16.6
7	KOPILI - 4	50	53	8.7	11.7
8	DOYANG - 1	25	18	2.2	0.5
9	DOYANG - 2	25	0	0	1.8
10	DOYANG - 3	25	25	2.2	2.1
11	TURIAL- 1	31	0	0	0
12	TURIAL- 2	31	0	0	0
13	LOKTAK - 1	35	38	10.5	11.6
14	LOKTAK - 2	35	37	10.4	13.1
15	LOKTAK - 3	35	38	11.7	8.8
16	RANGANADI - 1	135	141	17.8	15.1
17	RANGANADI - 2	135	137	16.2	17.2
18	RANGANADI - 3	135	140	16.7	15.5
TOTAL CS HYDRO :		922	785	126.0	138.8
(ii) CENTRAL SECTOR : THERMAL/GAS					
1	KATHALGURI - 1	34	32	19.5	23.0
2	KATHALGURI - 2	34	32	21.6	20.5
3	KATHALGURI - 3	34	33	15.5	0
4	KATHALGURI - 4	34	32	14.1	8.7
5	KATHALGURI - 5	34	29	10.5	18.4
6	KATHALGURI - 6	34	32	7.9	21.3
7	KATHALGURI - 7	30	25	16.4	18.9
8	KATHALGURI - 8	30	27	12.2	3.2
9	KATHALGURI - 9	30	24	7.4	16.7
10	R.C. NAGAR - 1	21	19	1.8	10.5
11	R.C. NAGAR - 2	21	21	7.2	13.3
12	R.C. NAGAR - 3	21	23	12.9	10.1
13	R.C. NAGAR - 4	21	22	12.7	14.3
14	R.C. NAGAR - 5	23	15	3.1	11.8
15	R.C. NAGAR - 6	23	23	14.4	11.5
16	MONARCHAK SOLAR PV	5	5	0.7	0.6
17	MONARCHAK - GTG 1	65.5	65	37.0	36
18	MONARCHAK - STG 1	35.5	35	19.7	9
19	PALLATANA - GTG 1	232	228	115.4	110.7
20	PALLATANA - STG 1	131	126	75.5	74.8
21	PALLATANA - GTG 2	232	214	102.0	145.5
22	PALLATANA - STG 2	131	122	72.3	84.6
23	BgTPP - 1	250	248	139.4	140.1
24	BgTPP - 2	250	246	156.5	0
25	BgTPP - 3				
TOTAL CS (THERMAL/GAS) :		1756	1673	895.6	803.8
TOTAL CS GEN (HY+TH/GAS)		2678	2458	1021.6	942.6
TOTAL NER GEN (HY+TH/GAS)		3827.5	3180	1241.85	1191.78

Plant Load Factor (PLF)

PLANT LOAD FACTOR OF THE THERMAL/GAS STATIONS IN N.E.R.					
S. No.	Power Station	State/Constituent	Installed Capacity (MW)	Generation (in MU)	Stationwise PLF(%)
1	LTPS*	AEGCL	157.00	50.15	45.31
2	NTPS*	AEGCL	119.00	31.04	38.34

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3	Baramura	Tripura	42.00	22.33	49.09
4	Rokhia	Tripura	95.00	31.37	82.53
5	AGBPP	NEEPCO	291.00	125.1	56.37
6	AGTPP	NEEPCO	130.00	52.0	51.84
7	Monarchak	NEEPCO	102.00	56.7	75.44
8	Pallatana	OTPC	727.00	365.2	66.44
9	BgTPP	NTPC	500.00	295.9	80.14

*LTPS -- Lakwa Thermal Power Station; *NTPS -- Namrup Thermal Power Station

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Voltage Profile

1. Maximum and Minimum Voltage (KV) Of Important Substations

S. No.	NAME of SUB-STATION	MAXIMUM (kV)	MINIMUM (kV)
1	MISA 400 kV	422	397
2	BALIPARA 400 kV	419	395
3	BONGAIGAON 400 kV	419	396

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4	RANGANADI 400 kV	424	388
5	PALLATANA 400 kV	423	413
6	SILCHAR 400 kV	42	401
7	BISHWANATH CHARIALI 400 kV	418	391
8	AZARA 400 kV	414	403
9	BgTPP 400 kV	423	402
10	MISA 220 kV	231	214
11	SALAKATI 220 kV	239	214
12	AGBPP 220 kV	232	212
13	MOKOKCHUNG 220 kV	234	226
14	AIZAWL 132 kV	141	121
15	IMPHAL 132 kV	140	129
16	Byrnihat 400kV	426	403
17	Kahilipara 132kV	139	128
18	Nirjuli 132kV	145	128

2. Voltage Range In KV as Percentage Of Time For The Block

SUB-STATION	kV < 360	360 < kV < 380	380 < kV < 420	kV > 420
MISA	0	0	98.72	1.28
BALIPARA	0	0	100.00	0
BONGAIGAON	0	0	100.00	0
PALATANA	0	0	83.75	16.25
SILCHAR	0	0	99.50	0.50
Azara	0	0	100.00	0
Biswanath Charali	0	0	100.00	0
BgTPP	0	0	98.96	1.04
Byrnihat	0	0	100.00	0

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Inter-Regional Energy Exchange, Major Grid Disturbance and Meetings held by NERPC

1. Inter-Regional Energy Exchange

All Fig. in MU

NER to ER	146.58
ER to NER	151.6
NET IMPORT FORM ER	5.02
NER to NR	41

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NR to NER	136
NET IMPORT FROM N R	95
NET IMPORT	100.02

2. Major Grid Disturbances:

None.

3. Meetings Held by NERPC:

Sr. No.	Meeting	Date	Venue
1.	49 th PCC Meeting	13.03.2018	Guwahati
2.	142 nd OCC Meeting	14.03.2018	Guwahati
3.	35 th CC Meeting	21.03.2018	Guwahati

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Status of Progress

1. Generating Projects in NER

Progress of Thermal Power Generation Projects in NER					
Central Sector					
Sr. No.	Plant	Units	Capacity in MW	Commissioning	Remarks

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				Schedule	
1	NTPC Bongaigaon	3rd		Jul-17	<ul style="list-style-type: none"> Boiler Drum Lifting Feb'13 & Boiler Hydro test Mar'14 Next Milestone : Boiler Light Up Nov'16

Progress of Hydro Power Generation Projects in NER					
Central Sector					
Sr. No.	Plant	Units	Capacity in MW	Commissioning Schedule	Remarks
1	Subhansiri Lower (Ar. Pradesh/NHPC)	8	8x250	Syn. Comm: 2016-18	1. Signing of MoU with State Government of Assam 2. Law & Order problem 3. Issue of Downstream Impact Assessment & demand for stoppage of works by anti-dam activists. Since 16.12.2011 work.
2	Kameng (Ar. P/NEEPCO)	4	4x150	Mar-18	Work in Progress
3	Pare (Ar. P/NEEPCO)	2	2x55	Mar-18	Work in Progress
4	Demwe Lower (Ar. P)	6	5x342; 1x40	2016-17	
State Sector					
1	Ganol SHP (MePGCL)	3	3x7.5	Oct-15	LOI issued on 22nd Dec,2012. Work Order is being issued.
3	Lakroh MHP (MePGCL)	1	1.5		Delayed due to rain.

2. Transmission Lines In NER

Progress of Transmission Lines in NER					
POWERGRID					
Sr. No.	Name of Lines	Total length in Km	Target Date		Remarks
			Scheduled	Revised	
1	400 kV Kameng-Balipara D/C	144	Aug-13	Mar-18	Commissioned on March 18.

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2	400 kV Lower Subansiri-Biswanath Chariyali D/C I	335	Aug-13	Mar-18	Completion matching with Gen.(Sch. uncertain).Works Standstill on account of local disturbance/agitation against big dam. Generation schedule uncertain.
3	400 kV Lower Subansiri-Biswanath Chariyali D/C II	348	Aug-13	Mar-18	Completion matching with Gen.(Sch. uncertain).Works Standstill on account of local disturbance/agitation against big dam. Generation schedule uncertain.
4	400 kV Silchar-Melriat(New) D/C (Charged at 132 kV)	248	Dec-12	Feb-18	Major portion of line is in forest (60%). Delay in tree cutting affecting site progress.
5	400 kV D/C Jigmeling - Alipurduar TL	-	Jan-18	Mar-19	Work in Progress
6	132 kV Melriat (New) - Sihhmui	-	Dec-12	Feb-18	Erection completed. Testing under progress. Commissioning matching with upstream Silchar-Melriat link.
7	Phulbari (Meghalaya) - Ampati	-	Sep-19	Sep-19	
8	LILO of 132 kV Ranganadi-Nirjuli at Pare	-		Oct-17	Line work completed. Test charged on 03.03.2018.
9	132 kV Tezu-Namsai S/C	96	Dec-12	Feb-18	Progress affected due to severe ROW Problem.
10	132KV D/C Interconnecting Silchar-Melriat T/L using 220 KV Towers	-	Mar-17	June-17	Work in Progress
TSECL					
11	132 kV Monarchak-Surajmani Nagar D/C	50	Jun-14	Mar-17	Work in Progress
12	132 kV Surjyamani Nagar-Badarghat D/C	6		Aug-16	Fund proposed in World Bank.
13	132 kV Surjyamani Nagar(TSECL)-Rokhia DC	32.32	Nov-14	Mar-14	3.598 km line in forest land for which TSECL will supply for forest clearance. LOA issued.
14	132 kV Gamai Tilla - Dhalabil	31		Sep-13	ROW problems affected the work
15	132 kV P K Bari - Kanchanpur	47		Mar-15	All works completed in non forest land. Stage I clearance received and compliance for

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					conditions completed.
MePTCL					
16	132 kV Rongkhon-Ampati D/C	1		June-18	1. Date of award of contract is 29.07.2011. 2. Schedule date of completion was 29.07.2012. 3. Anticipated date of completion is December 2017. Work is presently under progress.
MeECL					
17	LILO of 132 kV Mawlai-Cherrapunjee at Mawngap	10		Apr-18	Work held up due to ROW problem. The PHED,GOME has complained and filed and FIR against Loc No. 3 to 8. Overall status is 90% completed.
18	LILO of 132 kV NEIGRIHMS - Khliehriat at Lad Nongkrem	6		June-18	Delay in supply of materials for line by the vendor.
19	LILO of 132 kV Rongkhon - Ampati at Praharnagar	20		Sep-18	Survey works for 132 kV LILO is completed. LOA for the LILO is yet to be awarded.
Mizoram					
20	132 kV Tural-Aizawl	12		Mar-14	
AEGCL					
21	BTPS - Rangia D/C line	326.374	Mar-13	Mar-18	1. All normal Foundations have been completed, 2. Out of total 10 nos., 6 nos. of Pile foundations completed, work of 2nos. Are being in progress and rest 2 nos. of Pile Foundation work are held up due to Erosion. 3. 128.024 ckm of line are idle charged.
22	LILO of one Ckt. of Samaguri - Sarusajai D/C line at Sonapur sub-station	26.624	Dec-13	Mar-18	Completed and Charged on 06.03.2018.
23	132 kV DC Sonapur-Jagiroad Tr. Line.	51.75	Nov-13	Mar-18	Compensation/ROW Issue.
24	132 kV DC Sonapur-Chandrapur Tr. Line	28.438	Nov-13	Mar-18	Completed and Charged on 10.03.2018.

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26	Agia- Sonapur (Hatchingmari) S/C line on D/C tower	102.51	April -17	Mar-18	Material for reached site for Pkg. A & B respectively.
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Commercial Status

1. Entitlement, Schedule, Drawal and DSM Charges for the month of March 2018

Name of states	Entitlement from ISGS in NER (in MU)	Entitlement from ISGS in ER (in MU)	Total Entitlement (in MU)	Scheduled energy against entitlement (in MU)	Schedule Drawal (for Dev A/c) (Ex-PP State) (in MU)	Actual Drawal from Grid (in MU)	Over Drawal (+) / Under Drawal (-) (in MU)	Dev Payable (-) / Receivable (+) (including additional deviation) (Rs. In Cr)
Arunachal Pradesh	50.87	3.61	54.49	52.99	56.35	69.08	12.73	-3.24
ASEB	446.31	97.55	543.86	487.21	554.92	558.36	3.43	-1.94
Manipur	82.96	0.00	82.96	59.18	73.77	69.45	-4.32	0.88
MeSEB	108.14	0.00	108.14	68.54	107.52	101.04	-6.48	1.71
Mizoram	44.49	2.64	47.14	45.39	35.40	38.10	2.71	-0.71
Nagaland	47.01	7.98	54.99	52.60	56.53	57.78	1.25	-0.50
Tripura	146.40	0.00	146.40	137.67	97.44	98.71	1.26	-0.77
PGCIL-HVDC	1.63	0.00	1.63	0.80	0.80	0.43	-0.37	0.10

(Source: PSP, NERPC)

* In addition to total entitlement, bilateral exchanges and purchase/sell through traders/exchange are covered in Annexure-III.

2. Schedule for ISGS Generation for the month of March 2018.

ISGS	Schedule (MU)	Injection (MU)
AGTCCPP	44.26	51.48
AGBPP	87.76	121.30
KOPILI - I HEP	32.85	37.85
KOPILI - II HEP	3.31	
KHANDONG HEP	3.75	

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DHEP	8.23	4.29
RHEP	49.12	50.17
LOKTAK HEP	25.90	42.66
OTPC, PALLATANA	342.48	354.24
BgTPP	240.78	276.23

Source: Revised PSP, NERPC.

3. Cumulative Wt. Average Share Allocation (%) (Up to this month) in CS Stations

States	Kopili (200 MW)	Kopili- II (25 MW)	Khandong (50 MW)	RHEP (405 MW)	DHEP (75 MW)	AGBPP (291 MW)	AGTCCPP (130 MW)	BgTPP (250 MW)	OTPC (726.6 MW)	Loktak HEP (105 MW)
Arunachal Pradesh	5.191	5.992	4.194	18.462	6.852	5.694	6.702	5.1325	3.0303	4.940
Assam	53.455	52.355	56.285	43.328	43.808	56.503	43.720	57.420	33.058	29.445
Manipur	7.395	6.945	6.555	8.373	7.865	8.105	8.225	7.505	5.7851	42.508
Meghalaya	17.395	13.675	16.905	11.505	11.455	11.815	12.633	10.980	10.882	0.000
Mizoram	4.610	6.040	3.940	5.700	5.250	5.410	6.0	5.415	3.0303	5.020
Nagaland	6.147	5.735	6.653	5.335	17.967	5.805	5.737	4.930	3.7190	6.435
Tripura	5.807	9.258	5.468	7.297	6.803	6.668	16.983	7.6175	26.9972	11.652
TOTAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	98.995	86.5019	100.00

4. Share Allocation (%) in CS Stations from Eastern Region

States	Farakka-I	Kahelgaon-I	Kahelgaon-II	Talcher	Farakka-III
Assam	2.455737%	2.104847%	5.093479%	2.095419%	0.000000%
Meghalaya	0.000000%	0.000000%	0.000000%	0.000000%	0.000000%
Nagaland	0.429803%	0.424446%	0.000000%	0.424823%	0.000000%
Arunachal Pradesh	0.191917%	0.191747%	0.000000%	0.196898%	0.000000%
Mizoram	0.141736%	0.141610%	0.000000%	0.141736%	0.000000%
Assam (NVVN Coal Power)	0.091912%	0.091912%	0.091912%	0.091912%	0.091912%

5. Details of Fixed and Energy Charges of CS Stations for FY 2017-18

Projects	Installed Capacity (MW)	Design Energy (GWh)	Annual Fixed Charge (Crore)	Reference
KOPILI HEP	200	1186.14	109.8446	As per CERC order dated 13.01.2016 in petition No 46/GT/2015.

Monthly Progress Report of March 2018

KOPILI - II	25	86.30	13.2283	As per CERC order dated 23.01.2012 in pet. No 298/2009
KHANDONG HEP	50	277.61	40.3627	As per CERC order dated 13.01.2016 in petition No 42/GT/2015.
RHEP	405	1509.69	260.4693	As per CERC order dated 05.01.2016 and corrigendum 07.03.2016 in petition No.40/GT/ 2015.
DHEP	75	227.24	101.5605	As per CERC order dated 13.01.2016 and corrigendum dtd. 07.03.16 in petition No 43/GT/ 2015.
AGBPP	291	NA	296.5691	As per CERC order dated 15.02.2016 in Pet. No 459/GT/ 2014& 41/GT/2015. Base Rate of energy Charge as per the CERC Order
AGTPP	84	NA	71.7633	As per CERC order dated 11.03.2011 in Pet.No 299/2009,^Base Energy charge as per CERC order
LOKTAK HEP	105	448.00	107.1660	As per CERC order dated 22.10.2012 in RP No. 24/2011 in Pet.No 108/2010
PALLATANA	726.6	NA	899.0405	As per CERC order dated 30.03.2017 in Pet. No 129/GT/2015
BgTPP	250	NA	NA	

Regional Transmission Account (RTA) for the month of March 2018

Name of DIC	Demand/ Injection Zone	PoC Charges	Reliability Support Charges	HVDC Charges	Total
Arunachal Pradesh	Arunachal Pradesh	19177368.74	4497194.64	1377861.67	25052425.05
ASEB	Assam	331754683.5	32188040.34	9861851.81	373804575.7
Manipur	Manipur	29985334.7	5478976.88	1678662.56	37142974.14
MeECL	Meghalaya	39589562.97	7233879.58	2216334.01	49039776.55
Mizoram	Mizoram	31509216.41	3057138.24	936653.61	35503008.26
Nagaland	Nagaland	29499978.01	3739019.02	1145569.94	34384566.97
Tripura	Tripura	25985269.57	8503607.4	2605356.37	37094233.34
HVDC BNC	Assam	607277.13	58920.23	18052.13	684249.48

Grid Disturbance Report

List of Important Grid Disturbances in N E Regional Grid during March 2018

1. At 05:02 Hrs on 10.03.2018, 132 kV Ranganadi - Pare line tripped. It was restored at 05:29 hrs. Outage duration: 0:27 hrs. Load Loss: 47 MW, Generation Loss: 0 MW. Category- GD-I. to tripping of this element, Pare Power Station, Lekhi area , Capital area & Gohpur area were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.
2. At 18:25 Hrs on 17.03.2018, 132 kV Dimapur(PG) - Kohima (DoP, Nagaland) line tripped. It was restored at 18:55 hrs. Outage duration: 0:20 hrs. Load Loss: 30 MW, Generation Loss: 12 MW. Category- GD-I. Due to tripping of this element, Capital area was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.
3. At 09:50 Hrs on 22.03.2018, 132 kV Agartala - Surajmaninagar 1 & 2 Lines, 132 kV Agartala - AGTCCPP 1 & 2 Lines, 132 kV Agartala - Rokhia 1 Line & 132 kV Agartala - Budhjungnagar 1 Line tripped. It was restored at 10:05 hrs. Outage duration: 0:15 hrs. Load Loss: 42 MW, Generation Loss: 15 MW. Category- GD-I. Due to tripping of these elements, Agartala and Dhalabil areas were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.
4. At 17:47 Hrs on 26.03.2018, 132 kV P K Bari - Kamalpur Line, 132 kV Agartala - AGTCCPP I and II Lines, 132 kV Monarchak - Rokhia Line, 132 kV Jirinia - Budhjangnagar Line and 132 kV Palatana - Surajmaninagar Line tripped. It was restored at 18:15 hrs. Outage duration: 0:27 hrs. Load Loss: 256 MW, Generation Loss: 44 MW. Category- GD-II. Due to tripping of these elements, part of Tripura Power System and South Comilla were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.

Annexures and Exhibits

A-1

Major Reservoirs Level of The Month

	FRL	MDDL	Mar 2018	Mar 2017
	(mtr.)	(mtr.)	Level in mtr/ft	Level in mtr/ft
KHANDONG	719.3	704	709.0	714.7
KOPILI	609.5	592.83	600.1	598.5
LOKTAK	768.5	766.2	767.2	767.1
BARAPANI	3220 ft	3150 ft	3184.3	3174.0
GUMTI	93.55	83.6	90.7	89.5
DOYANG	333	306	314.7	311.5

A-2

Frequency Analysis For The Month of March 2018

Frequency	Freq. (in Hz.)	Date (D.M.Y)
1. Maximum Frequency	50.25	21.03.2018
2. Minimum Frequency	49.68	14.03.2018
3. Monthly Average	49.97	
4. Average FVI	0.047	

Frequency in Hz as %age of Time for the Blocks

f < 49.90	49.90 < f < 50.05	f > 50.05
12.99	79.29	7.72

Daily Frequency Variation Index (FVI):

Date	FVI	Date	FVI
01-03-2018	0.045	17-03-2018	0.026
02-03-2018	0.025	18-03-2018	0.022
03-03-2018	0.027	19-03-2018	0.037
04-03-2018	0.032	20-03-2018	0.034
05-03-2018	0.062	21-03-2018	0.031
06-03-2018	0.050	22-03-2018	0.049
07-03-2018	0.059	23-03-2018	0.034
08-03-2018	0.068	24-03-2018	0.051
09-03-2018	0.099	25-03-2018	0.029
10-03-2018	0.062	26-03-2018	0.054
11-03-2018	0.045	27-03-2018	0.077
12-03-2018	0.045	28-03-2018	0.077
13-03-2018	0.053	29-03-2018	0.070
14-03-2018	0.053	30-03-2018	0.032
15-03-2018	0.056	31-03-2018	0.030
16-03-2018	0.031		

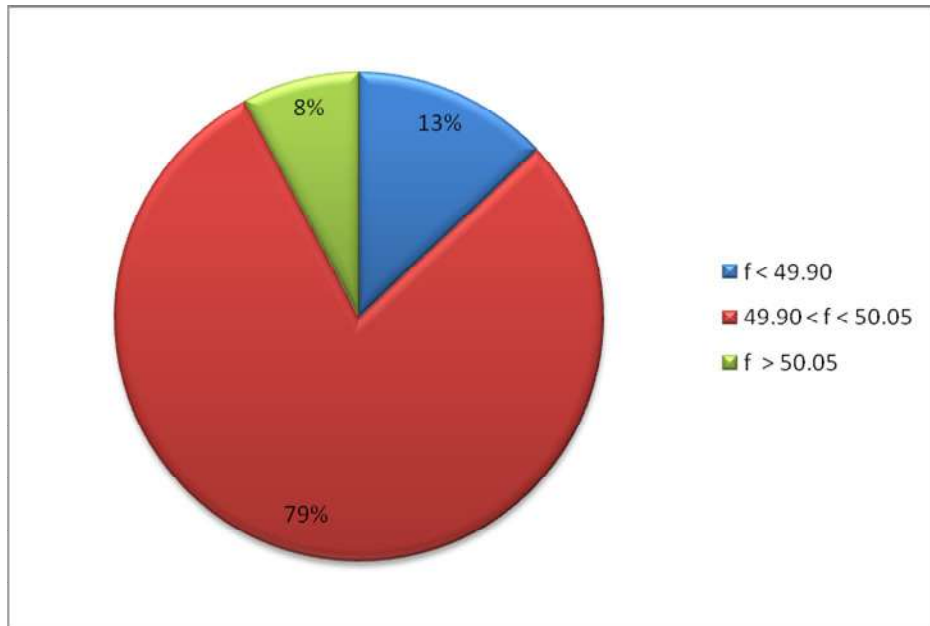
A-3

Consolidated Scheduled Bilateral Exchanges in NE Region during March 2018

Name of Trader	Energy at NER periphery (in MWH)
APPCPL	66678.45
GMRERL	440.51
GMRETL	372.00
IEXL	150.00
MPPL	47435.695
OTPC	48295.00

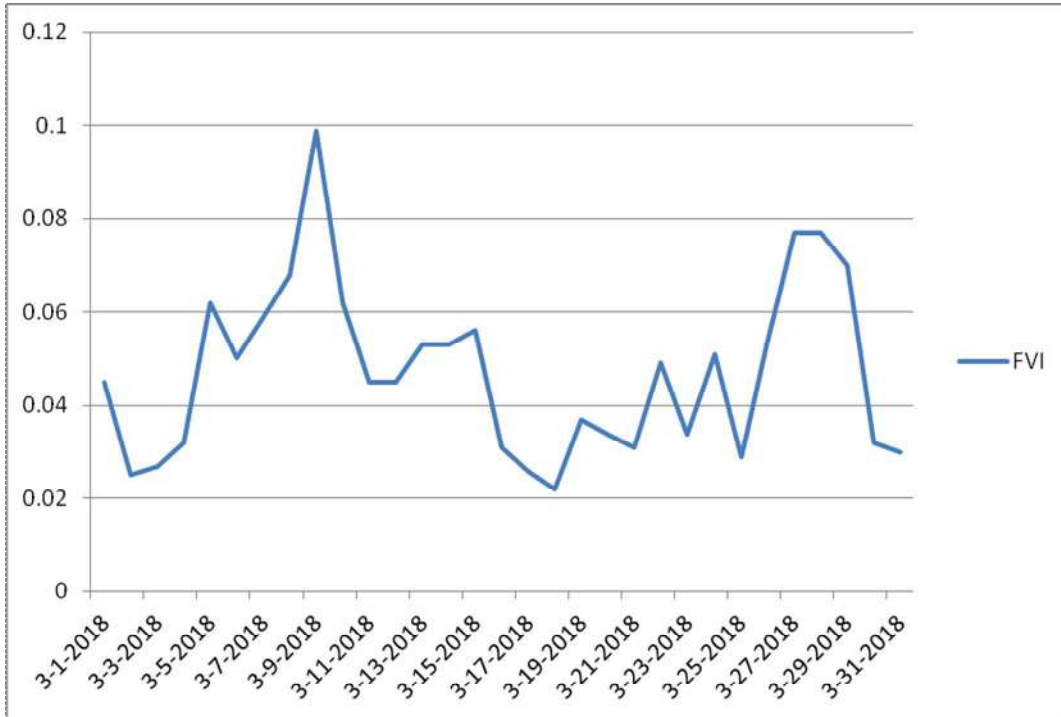
B-1

Frequency Duration for March 2018



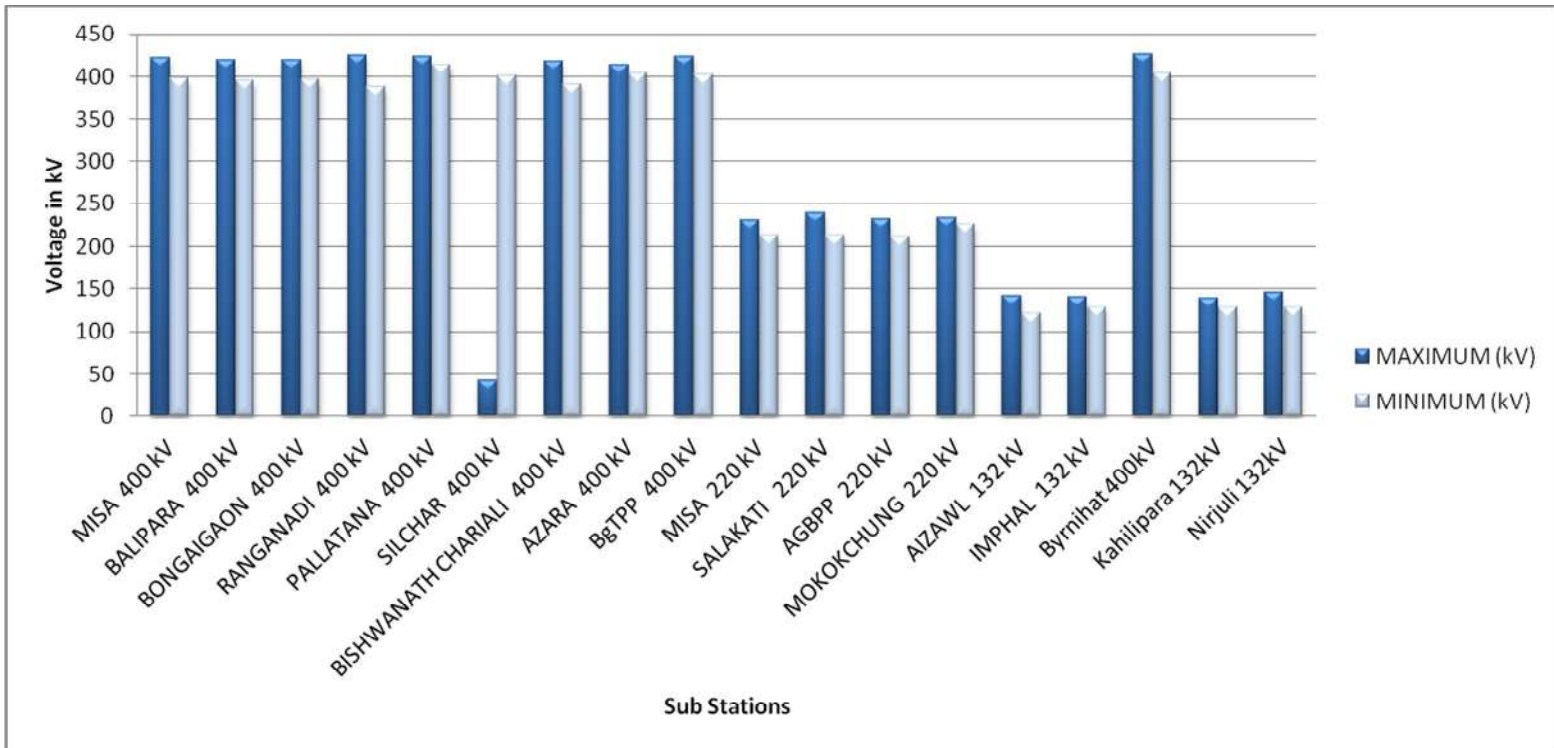
B-2

FVI Characteristic for March 2018



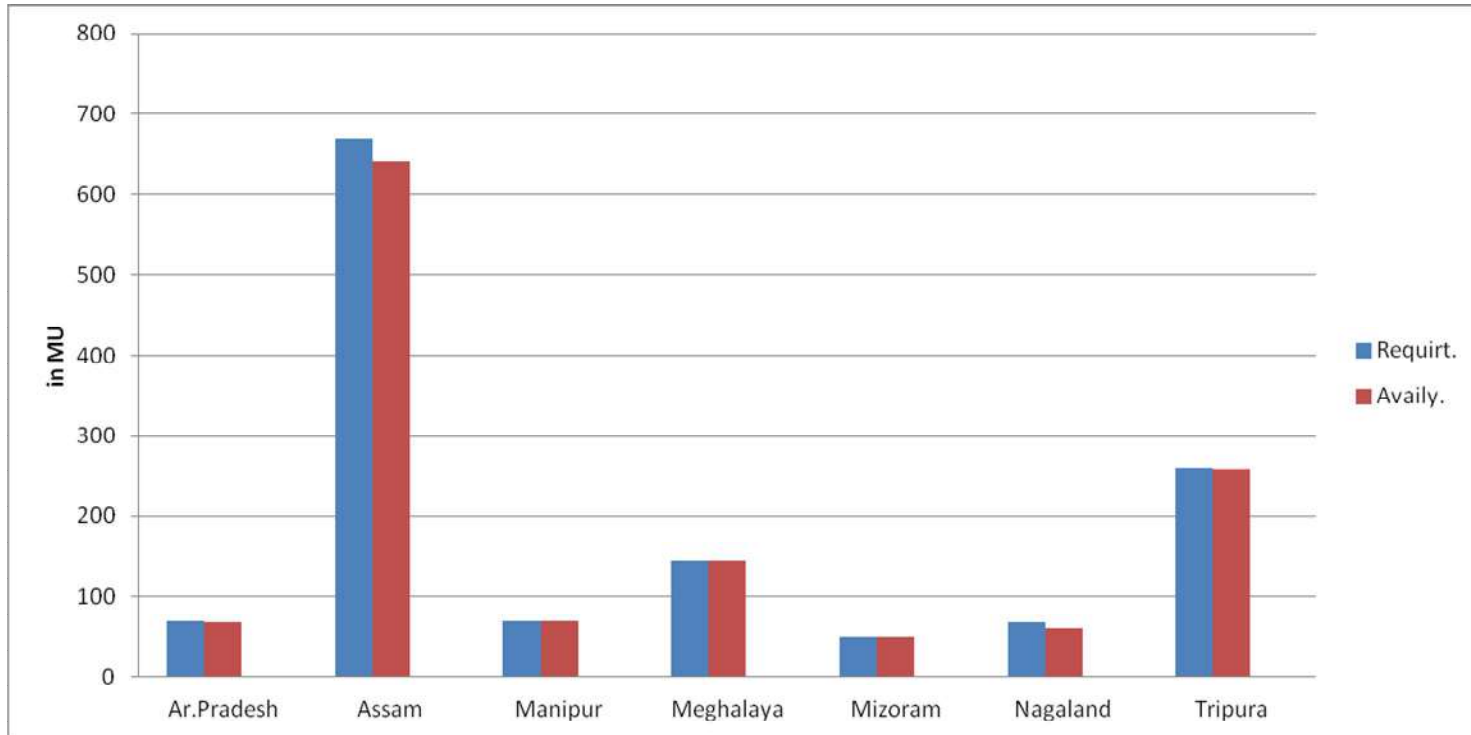
B-3

Voltage Variation Range for March 2018



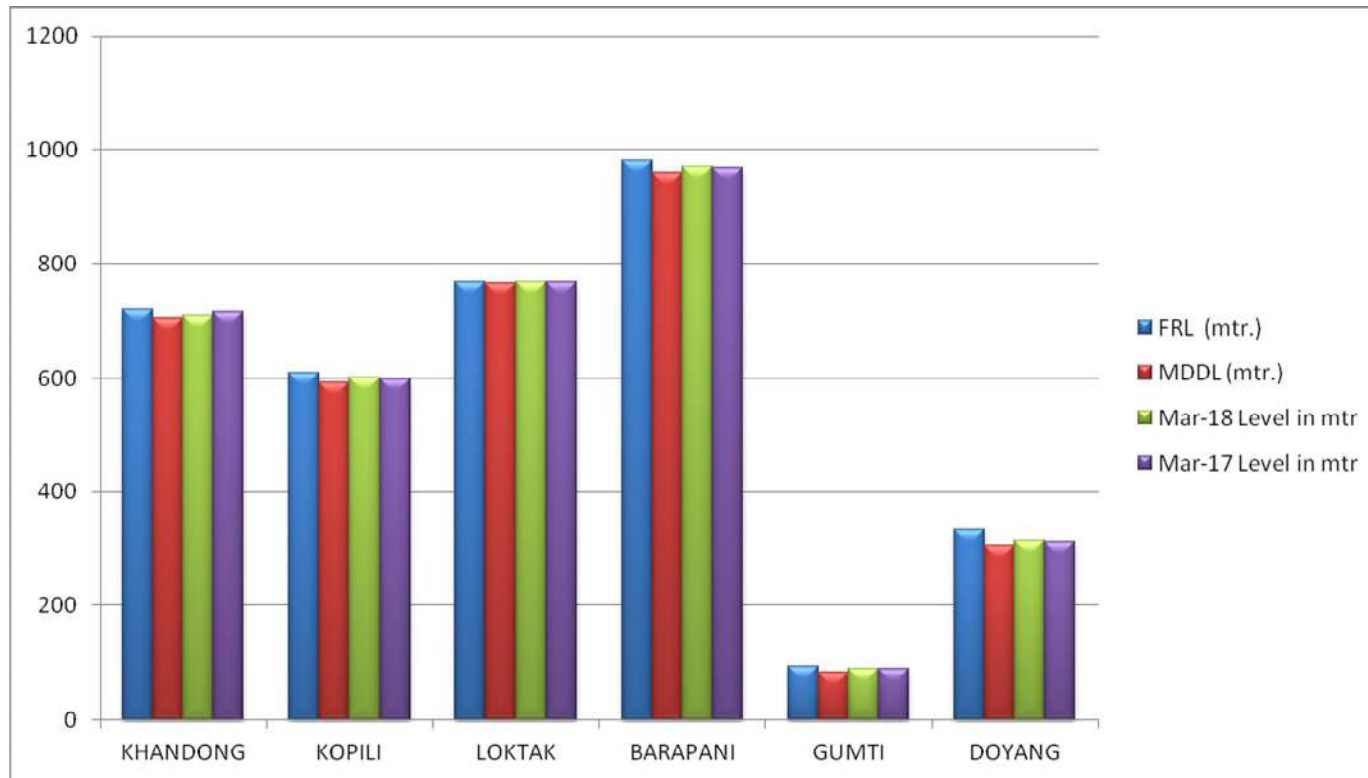
B-4

Energy Profile for March 2018



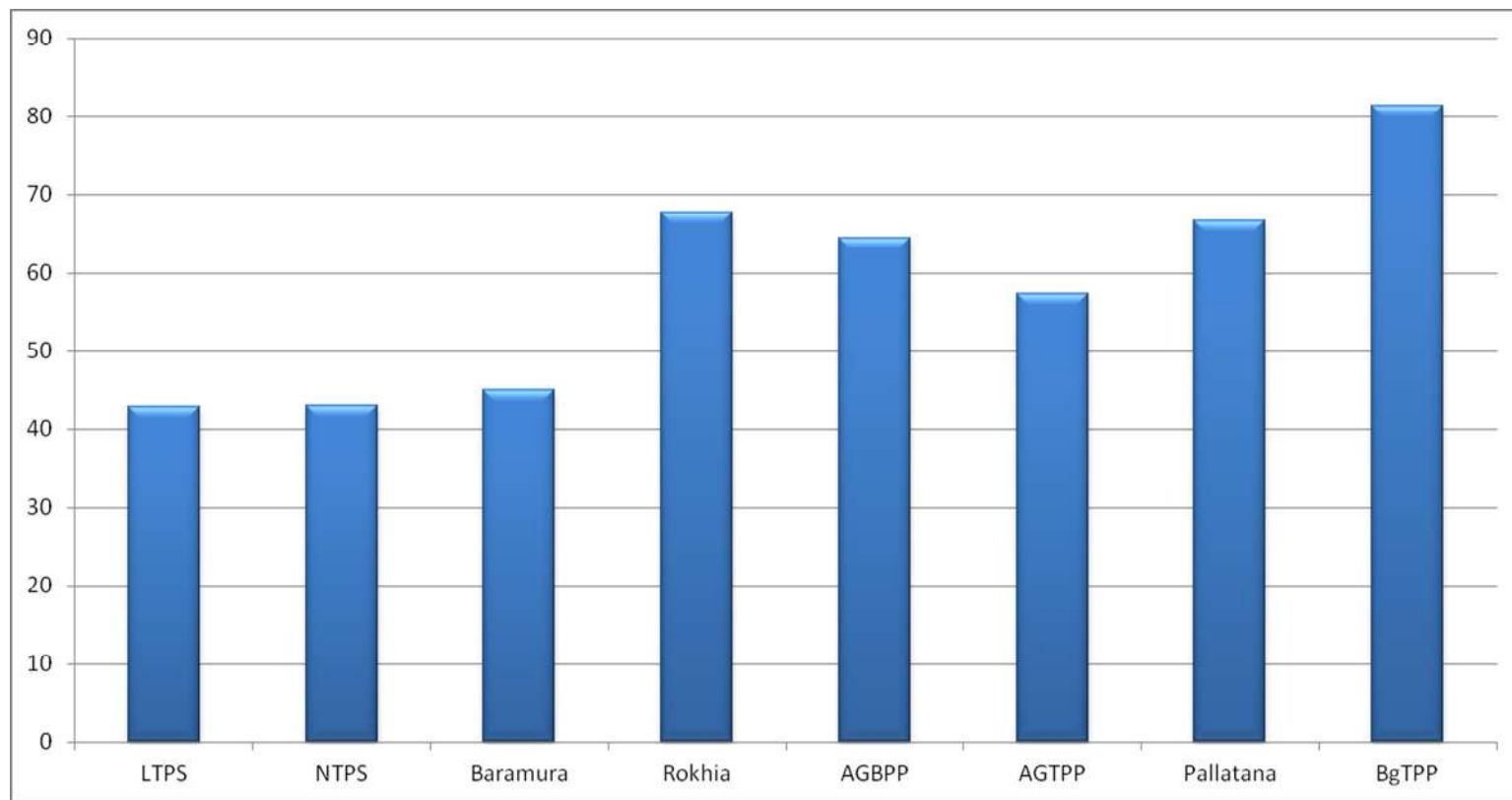
B-5

Reservoir Profile for March 2018



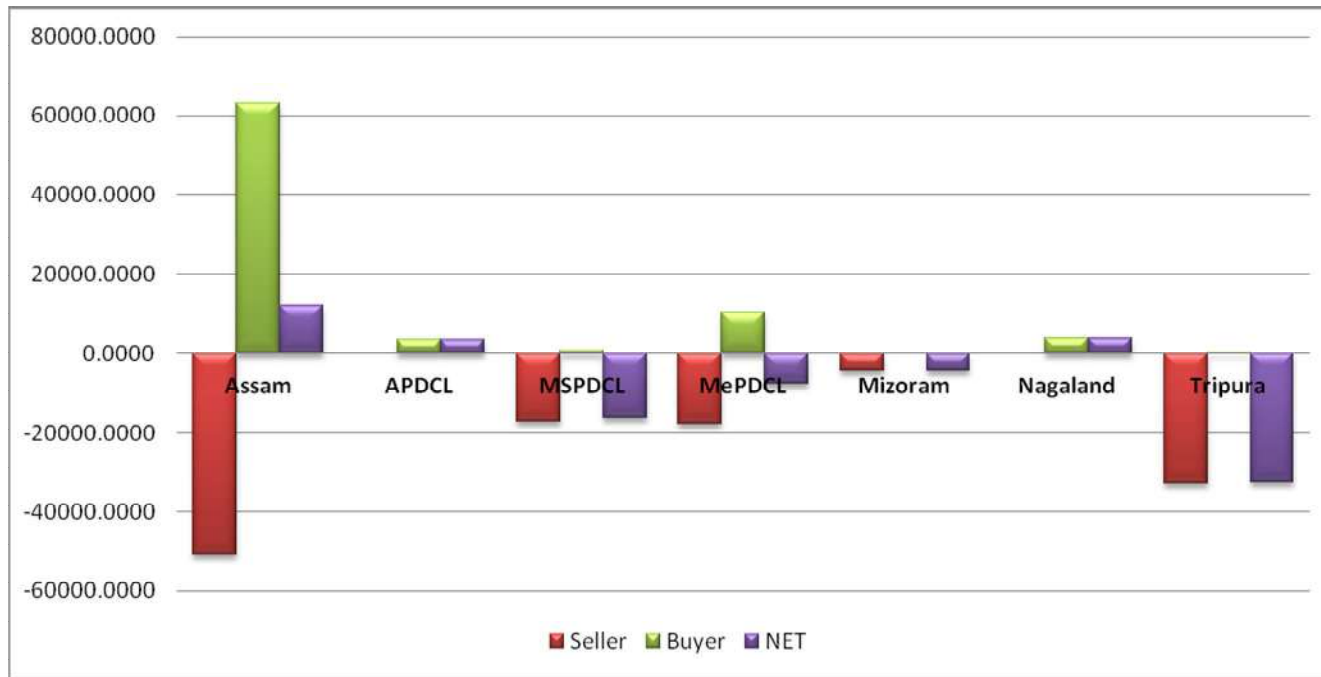
B-6

Station-wise Plant Load Factor for March 2018



B-7

Collective Transaction through IEX Power Exchange March 2018



B-8

Consolidated SEB in NE Region for the month of March 2018

