

भारत सरकार Government of India
विद्युत मंत्रालय Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority

उत्तर पूर्वी क्षेत्रीय विद्युत समिति
North Eastern Regional Power Committee

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Progress Report

For the month of

February, 2011

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NORTH EASTERN REGIONAL POWER COMMITTEE

Brief highlights of North Eastern Regional Power System for the month of February, 2011

- ❖ The maximum unrestricted demand during the month of February, 2011 was 1665 MW, which was 1667 MW in the month of January, 2011. The peak demand met in NER during the period under review was 1551 MW, which was 1547 MW last month.
- ❖ The energy requirement during the month of February, 2011 was 748.22 MU, which was 790.59 MU in the month of January, 2011. The energy availability in NER during the period under review was 704.43 MU, which was 744.68 MU last month.
- ❖ The maximum, minimum & average system frequency were 50.67, 49.08 & 49.88 Hz respectively. The maximum, minimum & average FVI were 1.940, 0.250 & 0.602 respectively. The average FVI was less than its previous month's figure. (refer Annex-II).
- ❖ Maximum export of power from NER to ER was 220 MW (on 12/02/11 at 21:00 hrs) and that from ER to NER was 462 MW (24/02/11 at 18:00 hrs). Total net energy import during the month was 164.73 MU (from ER).

**SALIENT FEATURES OF
NORTH EASTERN REGIONAL GRID FOR FEBRUARY, 2011**

1	New unit/ transmission lines/Transformers commissioned during this month	Nil	
2	Number of total grid disturbance during this month	Nil	
		Feb-11	Feb-10
3	Installed Capacity of the Region (in MW)(grid)	2054.12	2033.12
4	Energy Generation in MU (Gross)::		
	Thermal	405.438	369.710
	Hydel	164.572	103.518
	Diesel / Oil	0.000	0.000
	Total	570.010	473.228
5	Demand in MW ::		
	Registered Peak demand	1665.00	1654.00
	Peak demand met	1551.00	1415.00
	Shortage (% age)	-6.85	-14.45
6	Regional Energy(Gross) in MU ::		
	Energy requirement	748.22	680.41
	Energy availability	704.43	621.20
	Surplus (+) / Deficit (-) (% age)	-5.85	-8.70
7	Inter Regional Energy Exchange in MU ::		
	NER ----> ER	1.981	0.015
	ER ----> NER	166.714	172.923
	Net Import	164.733	-172.91
8	Frequency profile ::		
	Average frequency (Hz)	49.88	49.82
	Average Frequency Variation Index	0.602	0.820
9	Load Factor (in %)	62.96	55.89

ENERGY GENERATION IN THE REGION FOR THE MONTH OF Feb-11

All figures in MU

Constituents	Hydro		Coal / Oil fired		Gas Based(OpenCycle)		Gas Based(Com Cycle)		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	14.580	14.434	0.000	0.000	65.800	65.142	49.450	47.967	129.830	127.543
Meghalaya	24.830	24.582	0.000	0.000	0.000	0.000	0.000	0.000	24.830	24.582
Mizoram	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tripura	4.969	4.919	0.000	0.000	61.208	60.596	0.000	0.000	66.177	65.515
Nagaland	2.500	2.475	0.000	0.000	0.000	0.000	0.000	0.000	2.500	2.475
Total (State Sector)									223.337	220.114
Central Sector :										
NEEPCO :										
Khd+Kop+Kop-II	46.350	45.887	0.000	0.000	0.000	0.000	0.000	0.000	46.350	45.887
K'guri	0	0	0.000	0.000	0	0	176.830	171.525	176.830	171.525
RCNagar	0	0	0	0	52.150	51.629	0	0	52.150	51.629
Doyang	4.450	4.406	0	0	0	0	0	0	4.450	4.406
Ranganadi	33.390	33.056	0	0	0	0	0	0	33.390	33.056
NHPC :										
Loktak	33.270	32.937	0.000	0.000	0.000	0.000	0.000	0.000	33.270	32.937
Total (Central Sector)									346.440	339.439
Total NER	164.339	162.695	0.000	0.000	179.158	177.366	226.280	219.492	569.777	559.553

REQUIREMENT Vs AVAILABILITY IN THE REGION

STATES	ENERGY requirement (MU) at 50 Hz				POWER requirement (MW) at 50 Hz			
	Availability & L/S at prevailing freq.				Availability & L/S at prevailing freq.			
	Requirt.	Availy.	Shortfall	%Shortfall	Requirt.	Availy.**	Shortfall	%Shortfall
Ar.Pr.	39.51	36.06	3.45	8.73%	83	81	2	2.00%
Assam	391.69	377.44	14.25	3.64%	910	880	30	3.30%
Manipur	45.30	39.33	5.97	13.18%	109	104	5	4.18%
M'laya	129.20	120.77	8.43	6.53%	294	284	10	3.53%
Mizoram	33.04	29.42	3.62	10.95%	75	70	5	6.12%
Nagaland	44.19	38.60	5.60	12.67%	105	93	12	11.53%
Tripura	65.29	62.82	2.47	3.78%	168	164	4	2.53%
REGION	748.22	704.43	43.79	5.85%	1665	1551	114	6.85%

ESTIMATION OF PEAK DEMAND (in MW)

Constituents	Peak Demand Met	Date	Freq. (Hz)	Freq. Corr.**	L/S	Estimated Peak demand at 50 Hz
Arunachal Pradesh	81.00	11/02/2011	49.73	0.66	1	82.66
Assam	880.00	19/02/2011	50.19	-5.02	35	909.98
Manipur	104.00	06/02/2011	50.15	-0.47	5	108.53
Meghalaya	284.00	14/02/2011	50.07	-0.60	11	294.40
Mizoram	70.00	11/02/2011	49.73	0.57	4	74.57
Nagaland	93.00	01/02/2011	49.60	1.12	11	105.12
Tripura	164.00	02/02/2011	49.54	2.26	2	168.26
REGION	1551.00	24/02/2011	50.32	-14.89	129	1665.11

** Freq.Correction = Demand met x 0.03 x (50 - Av. Freq.)

ESTIMATION OF ENERGY REQUIREMENT (in MU)

Average Frequency **49.88** Hz

Constituents	Generation	Energy drawal from grid			Over(+) / Under(-) Drawal	Energy Availability*	Freq. Corr.**	L / S	Actual Requirement
		Entitlement frm ISGS of NER	Entitlement frm ISGS of ER	Drawal					
Ar.Pr.	0.000	23.191	5.581	36.055	7.283	36.055	0.130	3.32	39.505
Assam	127.543	170.815	95.873	249.898	-16.790	377.441	1.359	12.89	391.689
Manipur	0.000	34.339	0.000	39.329	4.990	39.329	0.142	5.83	45.301
M'laya	24.582	41.758	21.461	96.188	32.969	120.770	0.435	8.00	129.204
Mizoram	0.000	18.385	3.385	29.420	7.650	29.420	0.106	3.51	33.036
Nagaland	2.475	20.302	4.090	36.121	11.729	38.596	0.139	5.46	44.195
Tripura	65.515	30.244	0.000	-2.694	-32.937	62.821	0.226	2.24	65.287
REGION	220.114	339.034	130.390	484.318	14.893	704.432	2.536	41.25	748.218

*Energy availability means energy consumed by constituents

** Freq.Correction = Demand met x 0.03 x (50 - Av.Freq.)

ENERGY GENERATED (MU) AND PEAK GENERATION (MW) FROM GENERATING STATIONS/UNITS:

Sl. No.	Power Stations / Units	Installed Capacity(MW)	Peak Generation(MW)	Energy Generation (MU)	
				Feb-11	Feb-10
STATE SECTOR : HYDRO					
ASSAM :: HYDRO					
1	KARBI HEP U - 1	50.00	50.00	8.350	4.990
2	KARBI HEP U - 2	50.00	50.00	6.230	4.960
TOTAL		100.00		14.580	9.950
MEGHALAYA :: HYDRO					
1	STAGE - 1	36.00	27.00	3.640	5.400
2	STAGE - 2	18.00	12.50	8.380	2.970
3	STAGE - 3	60.00	30.00	9.750	7.320
4	STAGE - 4	60.00	48.80	2.630	5.890
5	UMTRU	11.20	5.40	0.430	1.650
TOTAL		185.20		24.830	23.230
NAGALAND :: HYDRO					
6	LIKIMRO - 1				
7	LIKIMRO - 2	24.00	10.00	2.730	3.300
8	LIKIMRO - 3				
TOTAL		24.00		2.730	3.300
TRIPURA :: HYDRO					
9	GUMTI - 1	5.00	Gumti Stn. Peak =8 MW	0.000	2.100
10	GUMTI - 2	5.00		2.554	0.000
11	GUMTI - 3	5.00		2.415	0.258
TOTAL		15.00		4.969	2.358
TOTAL STATE (HYDRO) :		324.20		47.109	38.838

ENERGY GENERATED (MU) AND PEAK GENERATION (MW) FROM GENERATING STATIONS/UNITS:

Sl. No.	Power Stations / Units	Installed Capacity(MW)	Peak Generation(MW)	Energy Generation (MU)	
				Feb-11	Feb-10
STATE SECTOR : THERMAL/GAS					
MIZORAM :: Thermal					
1	Bairabi	22.92	0.00	0.000	0.000
TRIPURA :: THERMAL					
1	BARAMURA - 1	5.00	Baramura Stn. Peak = 42 MW	0.000	0.000
2	BARAMURA - 2	5.00		0.000	0.000
3	BARAMURA - 3	6.50		0.000	0.000
4	BARAMURA - 4	21.00		13.835	13.840
5	BARAMURA - 5	21.00		12.313	0.000
6	ROKHIA - 1	8.00	Rokhia Stn. Peak = 57.6MW	0.000	0.000
7	ROKHIA - 2	8.00		0.000	0.000
8	ROKHIA - 3	8.00		4.175	3.240
9	ROKHIA - 4	8.00		3.906	4.120
10	ROKHIA - 5	8.00		0.000	0.000
11	ROKHIA - 6	8.00		0.000	0.000
12	ROKHIA - 7	21.00		13.494	14.410
13	ROKHIA - 8	21.00		13.485	14.750
	TOTAL	148.50		61.208	50.360
ASSAM :: THERMAL					
1	LTPS - 1	15.00	LTPS Stn. Peak = 105.8 MW	0.420	9.770
2	LTPS - 2	15.00		7.580	3.980
3	LTPS - 3	15.00		7.620	9.900
4	LTPS - 4	15.00		5.750	7.400
5	LTPS - 5	20.00		13.170	11.450
6	LTPS - 6	20.00		13.590	12.200
7	LTPS - 7	20.00		11.220	10.500
8	NTPS - 1	20.00	NTPS Stn. Peak = 80.5 MW	12.900	11.310
9	NTPS - 2	21.00		13.260	11.730
10	NTPS - 3	21.00		8.160	9.400
11	NTPS - 4	11.00		6.900	5.290
12	NTPS - 5	22.00		0.000	0.000
13	NTPS - 6	22.00		8.230	7.050
14	DLF	24.50			6.450
	TOTAL	261.50		115.250	115.690
TOTAL STATE THERMAL/GAS :		432.92		176.458	166.050
TOTAL SC GEN(HY+TH/GAS)		757.12		223.567	204.888

ENERGY GENERATED (MU) AND PEAK GENERATION (MW) FROM GENERATING STATIONS/UNITS:

Sl. No.	Power Stations / Units	Installed Capacity(MW)	Peak Generation(MW)	Energy Generation (MU)	
				Feb-11	Feb-10
CENTRAL SECTOR : HYDRO					
1	KHANDONG - 1	25.00	25.00	0.890	0.170
2	KHANDONG - 2	25.00	25.00	2.530	0.000
3	KOPILI Stg - II	25.00	25.00	1.830	0.000
4	KOPILI - 1	50.00	0.00	0.000	0.000
5	KOPILI - 2	50.00	50.00	11.090	4.730
6	KOPILI - 3	50.00	50.00	15.150	5.180
7	KOPILI - 4	50.00	50.00	14.860	0.000
8	DOYANG -1	25.00	Doyang Stn. Peak = 58.6 MW	2.140	0.830
9	DOYANG -2	25.00		1.280	1.680
10	DOYANG -3	25.00		1.030	2.800
11	LOKTAK - 1	35.00	Loktak Stn. Peak = 73 MW	0.000	7.880
12	LOKTAK - 2	35.00		11.640	0.000
13	LOKTAK - 3	35.00		21.630	17.660
14	RANGANADI - 1	135.00	Ranganadi Stn. Peak = 270 MW	18.620	7.760
15	RANGANADI - 2	135.00		14.770	7.380
16	RANGANADI - 3	135.00		0.000	8.610
TOTAL HYDRO :		860.00		117.460	64.680
CENTRAL SECTOR : THERMAL/GAS					
1	KATHALGURI - 1	33.50	Kathalguri Stn. Peak = 282 MW	21.430	18.860
2	KATHALGURI - 2	33.50		21.020	18.240
3	KATHALGURI - 3	33.50		21.300	17.050
4	KATHALGURI - 4	33.50		21.030	15.200
5	KATHALGURI - 5	33.50		20.830	19.700
6	KATHALGURI - 6	33.50		20.890	19.280
7	KATHALGURI - 7	30.00		15.930	13.630
8	KATHALGURI - 8	30.00		17.660	12.840
9	KATHALGURI - 9	30.00		16.740	16.310
10	R.C.NAGAR - 1	21.00	RC Nagar Stn. Peak = 85 MW	13.370	13.130
11	R.C.NAGAR - 2	21.00		13.160	13.120
12	R.C.NAGAR - 3	21.00		12.740	13.010
13	R.C.NAGAR - 4	21.00		12.880	13.290
TOTAL THERMAL/GAS :		375.00		228.980	203.660
TOTAL CS (HY + TH/GAS) :		1235.000		346.440	268.340
TOTAL NER GEN(HY+TH/GAS) :		1992.120		570.007	473.228

Plant Load Factor (PLF) and Voltage Profile :

Feb-11

PLANT LOAD FACTOR OF THE THERMAL/ GAS STATIONS IN NER

Sl. No.	Power Station	State/ Constituent	Installed Capacity (MW)	Generation (in MU)	Stationwise PLF (%)
1	LTPS*	AEGCL	120.00	59.350	73.60
2	NTPS*	AEGCL	117.00	49.450	62.89
3	Baramura	Tripura	58.50	26.148	66.51
4	Rokhia	Tripura	90.00	35.060	57.97
5	AGBPP	NEEPCO	291.00	176.830	90.43
6	AGTPP	NEEPCO	84.00	52.150	92.39

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

VOLTAGE PROFILE :

A. MAXIMUM AND MINIMUM VOLTAGE (kV) OF IMPORTANT SUB - STATIONS :

Sl. No.	NAME OF S/S	MAXIMUM (kV)	MINIMUM (kV)
1	BALIPARA 400 kV	425	390
2	MISA 400 kV	427	391
3	MISA 220 kV	232	210
4	SALAKATI 220 kV	236	213
5	HAFLONG 132 kV	139	125
6	AIZAWL 132kV	138	120
7	KUMARGHAT 132kV	137	127

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	0.05	82.82	17.13
BALIPARA	0.00	0.66	97.46	1.88

1 **INTER - REGIONAL EXCHANGE :**

All Fig in MU

NER to ER	1.981
ER to NER	166.714
NET IMPORT	164.733

2 **Major Grid Disturbances during this month**

Nil

3 **MEETING HELD BY NERPC DURING THIS MONTH**

1. 59th OCC Meeting was held on 15.02.11 at NERTS, conference hall, Shillong.
2. 10th TCC & 10th NERPC Meetings were held on 08.02.11 & 09.02.11 at Aizawl, Mizoram

PROGRESS OF GENERATION PROJECTS IN NER

Name of the Generation Scheme	No. of Units	Capacity (MW)	Commissioning Schedule	REMARKS
[A] NEEPCO				
1. Monarchak TGBPP		104	2013	Activities in progress
2. Tuirial HEP Mizoram	2	2 X 30	WORKS HELD-UP	Being reviewed by PIB
3. Kameng HEP A. Pradesh	4	4X150	2012-13	Activities in progress
4. Tuival H.E. Proj. Mizoram	3	3X70	2015	Status not available
5. Tipaimukh HEP		1500	2015	Activities in progress
6. Mawphu HEP	2	90	2014	UNDER CCEA
7. Pare HEP, Ar. Pradesh		110	2015	UNDER CCEA
[B] NHPC				
a). Loktak Downstream HEP	2	66	2014	Activities in progress
b) Subansiri Lower HEP		2000	2013	Activities in progress
c) Siang Middle HEP		2000	2016	Activities in progress
d) Subansiri Upper HEP		2000	DPR Under prep	
e) Subansiri Middle HEP		1000	DPR Under prep	
f) Dibang Multipurpose Project		3000	Under TEC	
[C] NTPC				
a). Bongaigaon TPS	3	3X250	2012	Activities in progress
[D] JV PROJECT				
a). Palatana CCPP	2	2X323.3	2012	Activities in progress
[E] ASSAM				
(a) Lakwa WHRP		37.2	2012	Activities in progress
(b) Namrup CCPP	2	2X40	2012	
[F] MIZORAM				
(a) Tuivai Hydel Project	2	51	2012	Activities in progress
(b) Bairabi Dam Project	2	2 X 40	2012	Activities in progress
(G) MeSEB				
(a) Myntdu - Leishka HEP	2	3x42	2011	Activities in progress
(b) New Umtru HEP	2	2X20	2013	Activities in progress
(H) Tripura				
(a) Baramura GT # U-V	1	21	2010	Commissioned on 03.08.10

PROGRESS OF TRANSMISSION LINES IN NE REGION									
	Name of the line	Length ckt kms	Comm'n'g Sch		Total no. of locs	Stubs com- pleted(nos)	Tower Erected	Stringing complt-ckm	Remarks
			Ann.pl	Ant/revd					
A : Lines under ASEB.									
1	132 kV Nazira - Lakwa 2nd Ckt	21					Completed	Work in progress	
2	132 kV, S/C Rangia - Sipajhar - Rowta- Depota	147						Work in progress	
3	132 kV, S/C Sarusajai - Kahlipara	8						Work in progress	
4	LILO of 132 kV Mariani - Dimapur S/C at Bokajan	6					completed	Rly Clearance awaited	
5	132 kV Nazira- Garmur (Mariani) S/C	63						Tender is in progress	
6	220 kV Kathalguri - Tinsukia 2nd Ckt	50	2006-07					Work in progress	
D : Lines under Meghalaya :									
1	Myntdu Leshka-Khlieriat 132 KV D/C	53		Dec-10				Commissioned	
2	220 kV Misa-Byrinahat D/C	226		Jun-10				Completed	
3	132 kV Agia - Nangalbibra	110		Mar-11				Work in progress	
E : Lines under Mizoram :									
1	132 kV Khawzawl-E Lungdar S/C	48			100	100	76	0	Work in progress
2	132 kV Khawzawl-Ngopa S/C	57			117	117	117	57	Work in progress
3	132 kV Kolasib-Tuirial S/C	41			114	114	114	41(Conducto	Work in progress
4	Kolasib-Sairul B D/C	25							Work in progress
5	132 kV Kolasib-Melriat S/C	90			369	Nil	Nil	Nil	Work in progress
6	132 kV Bairabi-Bawktlang S/C	30			93	91	85	14	Work in progress
7	132 kV Khawzawl-Champhai S/C	30			90	Nil	Nil	Nil	Work in progress
G : CTU Lines:									
1	`+/- 800 kV HVDC Bipol Bis'nath Chariyal-Agra	1971	08/2013	08/2013	2293	1016	210		All tower packages award
2	400 kV Balipara - Biswanath Chariyal D/C	130	08/2013	08/2013	167	98	40		
3	LILO of 400 kV R'nadi-Balipara D/C at Bis Chariyal	54	08/2013	08/2013	68	5			
4	400 kV Kameng - Balipara D/C	110	02/2013	02/2013	142	9			
5	400 kV Balipara - Bongaigaon D/C	596	02/2013	03/2012	838	445	137		
6	400 kV Lower Subansiri - Biswanath Chariyal line-I	334	02/2013	03/2012	432	198	85		
7	400 kV Lower Subansiri - Biswanath Chariyal line-II	340	02/2013	03/2012	442	192	55		
8	LILO of 132 kV Dimapur-Kohima at Dimapur (PG)	2	09/2009	03/2011	3				ROW problem
9	132 kV Kopili-Khandong	12	09/2009	12/2010	43	37	37	10	ROW problem
10	132 kV D/C Biswanath Chariyal- B. Chariyal (AEGCL)	32	08/2013	08/2013	55				Engg.&survey under prog.
11	400 kV D/C Bongaigaon TPS-Bongaigaon								
12	400 kV Palatana - Silchar	248							
13	400 kV Silchar - Bongaigaon	405							

Name of the line	Length	Comm'n'g Sch		Total no. of locs .	Stubs com - pleted(nos.)	Tower Erected	Stringing complt-ckm	Remarks
	(ckt kms)	Ann.pl	Ant/revd					
H : Lines under Arunachal Pradesh								
i) Transmission Lines Plan works completed & on going								
1. 132 kV Nirjuli - Itanagar S/C (Under NLCPR)		2007-12				Completed	in progress	Work is in progress
2. 132 kV Along - Pasighat (Under NLCPR)		2007-12						Work is in progress
3. 132 kV Ranganadi - Itanagar S/C		2007-12						Work is in progress
ii) Proposed for XIth Five Years Plan (State)								
1. 132 kV Khupi - Seppa		2007-12						Work is in progress
2. 132 kV Line LILO at Bhalukpong		2007-12						Work is in progress
3. 132 kV Nirjuli - Banderdewa		2007-12						Work is in progress
4. 132 kV Along - Yingkiong		2007-12						Work is in progress
5. 132 kV Naharlagun - Seppa		2007-12						Work is in progress
6. 132 kV Roing - Anini		2007-12						Work is in progress
7. 132 kV Along - Reying		2007-12						Work is in progress
8. 132 kV Tezu - Roing		2007-12						Work is in progress
9. 132 kV Namsai - Tezu		2007-12						Work is in progress
10. 132 kV Ziro - Sangram		2007-12						Work is in progress
iii) Proposed for XIth Five Years Plan (NEC)								
1. 132 kV Pasighat - Roing		2007-12						Work is in progress
2. 132 kV Likabali - Gerukamukh		2007-12						Work is in progress
3. 132 kV Pasighat - Niglok		2007-12						Work is in progress
4. 132 kV Deomali - Khonsa		2007-12						Work is in progress
5. 132 kV Khupi - Banderdawa		2007-12						Work is in progress
6. 132 kV Banderdawa - Tawang		2007-12						Work is in progress
7. 132 kV Khonsa - Changlang		2007-12						Work is in progress
8. 132 kV Changlang - Jairampur		2007-12						Work is in progress
9. 132 kV Jairampur - Miao		2007-12						Work is in progress
10. 132 kV Itanagar - Seijusa		2007-12						Work is in progress
11. 132 kV Seijusa - Balipara		2007-12						Work is in progress
iv) Proposed for XIth Five Years Plan (NEC)								
1. 132 kV Niglok - Likabali		2007-12						Work is in progress
2. 132 kV Itanagar - Gohpur		2007-12						Work is in progress

UI Receivable/ Payable for the month of**Feb-11**

Organisation	Actual (MU)	Schedule (MU)	UI Energy (MU)	UI Receivable (Rs. in Lakhs)	UI Payable (Rs. in Lakhs)
Arunachal Pradesh	36.055	32.125	3.930	5.431	102.873
ASEB	249.898	274.922	-25.024	699.290	4.552
Manipur	39.329	36.371	2.958	3.001	79.572
MeSEB	96.188	71.928	24.260	0.000	482.291
Mizoram	29.420	24.470	4.949	0.940	117.063
Nagaland	36.121	23.455	12.666	0.000	275.160
Tripura	-2.694	-3.792	1.098	29.884	35.319

Entitlement, Schedule, Drawal and UI Charges**Feb-11**

	Entitlement from CGSs (MU)	Drawal Schedule from CGSs (MU)	Net Schedule from Grid (MU)	Actual Drawal from Grid (MU)	Over Drawal (+) / Under Drawal (-) (MU)	UI Payable (-)/ Receivable (+) (Rs. In Cr)
Arunachal Pradesh	23.191	23.467	32.125	36.055	3.930	-0.974
ASEB	170.815	169.607	274.922	249.898	-25.024	6.947
Manipur	34.339	34.540	36.371	39.329	2.958	-0.766
MeSEB	41.758	42.651	71.928	96.188	24.260	-4.823
Mizoram	18.385	18.316	24.470	29.420	4.949	-1.161
Nagaland	20.302	20.091	23.455	36.121	12.666	-2.752
Tripura	30.244	30.390	-3.792	-2.694	1.098	-0.054

(Source : UI A/c, NERPC)

Schedule for ISGS's Generation and State's Drawal for the month of

Feb-11

States	Schedule From ISGS(MWH)	Bilateral Schedule from Outside NER (MWH)	Total Schedule (MWH)	Ex.PP. Drawal (MWH)	Tr. Energy (MWH)
Arunachal Pradesh	23186.21	5792.43	28978.63	37503.23	37503.23
ASEB	170768.85	99509.38	270278.22	259932.87	270278.22
Manipur	34331.93		34331.93	40908.49	40908.49
MeSEB	41748.10	22276.05	64024.15	100050.38	100050.38
Mizoram	18379.97		18379.97	30601.34	30601.34
Nagaland	20297.26	4243.05	24540.31	37571.50	37571.50
Tripura	30235.74		30235.74	-2801.86	30235.74
Total	338948.07	131820.90	470768.97	503765.94	547148.90

ISGS	Schedule (MWH)	Injection (MWH)
LOKTAK	32252.14	32458.64
KHANDONG	3681.40	3629.93
KOPILI-I	41296.81	41183.19
KOPILI-II	1760.16	1779.93
DHEP	4112.01	4063.37
RHEP	32018.50	32084.75
AGTPP	50865.62	51281.49
AGBPP	172961.44	172551.81
Total	338948.07	339033.11

Source : Provisional REA for the month: Feb-11

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

States	KOPILI	KOPILI-II	KHANDONG	RHEP	DHEP	AGBPP	AGTPP	Loktak HEP
	(200 MW)	(25 MW)	(50 MW)	(405 MW)	(75 MW)	(291 MW)	(84 MW)	(90 MW)
Arunachal Pradesh	5.193	6.193	4.192	18.462	6.882	5.693	6.180	4.942
Assam	53.455	46.615	56.277	43.328	43.742	56.465	45.178	29.415
Manipur	7.385	7.225	6.565	8.373	7.893	8.125	8.143	30.115
Meghalaya	17.150	18.650	16.650	11.250	11.230	11.550	11.340	12.140
Mizoram	4.619	6.278	3.940	5.710	5.240	5.429	6.190	5.068
Nagaland	6.155	5.656	6.653	5.335	17.935	5.805	5.607	6.427
Tripura	6.043	9.383	5.723	7.542	7.078	6.933	17.362	11.893
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Details of Fixed and Energy Charges of CS Stations for FY 2009-10

Projects	Installed Capacity (MW)	Design Energy (GWh)	Annual Fixed Charge (Rs. Crore)	Reference
KOPILI HEP	200	1186.14*	57.6738 *	*As per CERC order dated 19.02.08 in petition No 76/2007.
KOPILI -II	25	86.3*	12.9511 **	* Provisional, ** As per CERC order dated 01.01.08 in pet. No 70/2006
KHANDONG HEP	50	277.61*	19.6328 *	*As per CERC order dated 14.01.08 in petition No 26/2007.
RHEP	405	1509.69	203.4081	*As per CERC order dated 30.04.08 in petition No 89/2007.
DHEP	75	227.24	58.5 *	*As per CERC order dated 03.10.07 in petition No 88/2007.
AGBPP	291	NA	233.59 *	*As per CERC order dated 22.02.08 in Pet.No150/2005, ^ Base Rate of energy Charge as per CERC Order
AGTPP	84	NA	52.71 *	*As per CERC order dated 20.02.08 in Pet.No 135/2005,^Base Engy. charge as per CERC order
LOKTAK HEP	105	448.00	50.0353 *	*As per CERC order dated 05.09.07 in Pet.No 171/2004

HOURLY DATA ON PEAK DEMAND MET DAY

DATE:- 24.02.2011

All figures in MW

HRS.	Total ISGS Injection (MW)	STATE SECTOR														ER					Total Drawal by States
		ASEB			MeSEB			Tripura			Manipur	Mizoram	Nagaland	ArPr	Total N.E.R GEN		Total Demand Met	Gross Demand met	Actual Loss		
		GEN	Drawal	Demand Met	GEN	Demand Met	Drawal	GEN	Demand Met	Drawal	DM	DM	DM	DM						IMPORT(+)/EXPORT(-)	
1	342.44	164	308.37	472.1	12	202.9	191.43	102	70.5	-31.74	23.00	30.99	45.05	42.63	287.26	619.85	887.15	907.10	19.9	322.49	
2	338.99	154	307.54	461.3	0	194.9	194.87	102	67.5	-34.73	18.70	30.53	44.74	41.31	290.71	594.96	858.92	885.66	26.7	312.25	
3	338.79	157	289.60	446.8	0	192.8	192.75	102	66.4	-35.79	18.61	29.75	44.86	41.81	269.90	598.24	841.05	868.12	27.1	311.72	
4	340.96	159	291.29	450.3	0	198.0	198.02	102	65.5	-36.75	16.83	29.42	47.08	42.95	275.01	602.14	850.03	877.14	27.1	313.85	
5	341.88	158	312.23	470.2	0	198.0	198.00	102	68.1	-34.14	29.51	31.52	53.06	45.01	326.48	602.03	895.33	928.49	33.2	308.73	
6	493.55	160	350.85	510.4	0	176.2	176.18	102	75.9	-26.32	58.53	43.37	67.13	54.15	271.88	755.26	985.60	1027.13	41.5	452.02	
7	508.89	166	410.24	576.3	75	229.6	154.86	102	88.8	-13.42	62.42	59.08	59.55	63.66	316.69	851.99	1139.49	1168.67	29.2	479.71	
8	506.32	165	378.40	543.8	74	198.3	123.96	102	92.0	-10.21	60.17	56.64	54.78	60.65	238.61	848.29	1066.35	1086.89	20.5	485.78	
9	400.71	218	349.18	567.7	81	187.5	106.81	102	89.2	-13.02	56.72	43.91	47.56	47.48	287.47	802.09	1040.00	1089.54	49.5	351.18	
10	353.49	175	360.18	535.2	81	175.1	94.36	102	85.4	-16.84	61.03	40.28	42.62	42.88	297.37	711.43	982.45	1008.79	26.3	327.15	
11	317.15	155	418.10	573.4	74	197.4	123.15	102	79.5	-22.75	59.79	38.40	38.99	43.16	355.76	648.86	1030.56	1004.61	-25.9	343.10	
12	316.63	128	333.75	461.5	42	155.2	113.56	102	77.3	-24.88	61.20	39.04	43.80	42.08	331.46	588.17	880.09	919.62	39.5	277.10	
13	312.18	115	337.42	452.3	42	163.3	121.49	102	71.5	-30.68	59.49	41.89	43.30	43.83	328.32	571.05	875.60	899.35	23.8	288.43	
14	313.39	117	331.00	448.3	12	136.2	124.23	102	71.2	-31.05	50.76	42.91	50.34	42.74	330.29	544.91	842.45	875.19	32.7	280.65	
15	315.02	115	313.05	428.3	12	141.1	129.11	102	74.1	-28.11	61.90	49.88	50.74	39.52	326.93	544.49	845.57	871.41	25.8	289.17	
16	394.74	111	294.66	405.8	27	170.2	143.20	102	77.7	-24.48	66.68	56.26	53.39	42.55	252.74	635.11	872.64	887.83	15.2	379.55	
17	483.58	176	353.62	529.2	27	134.7	107.68	102	86.2	-16.01	61.84	53.24	59.64	58.66	224.39	788.32	983.41	1012.69	29.3	454.30	
18	630.21	176	597.64	774.1	75	196.1	121.21	102	146.9	44.74	79.44	62.11	65.12	77.07	440.36	983.81	1400.91	1424.14	23.2	606.99	
19	793.80	223	597.69	820.5	76	195.5	119.61	102	156.0	53.74	82.83	64.44	67.05	76.87	300.29	1194.75	1463.18	1495.01	31.8	761.98	
20	792.16	260	616.94	877.1	94	219.1	124.90	103	153.2	50.42	85.28	62.83	65.87	77.54	314.37	1249.27	1540.88	1563.61	22.7	769.43	
21	669.26	230	568.49	798.8	108	238.4	130.69	103	144.8	41.47	89.46	57.43	63.96	73.32	387.73	1110.64	1466.20	1498.34	32.1	637.12	
22	575.12	264	487.62	751.2	87	217.3	130.62	103	124.7	21.56	90.34	48.08	54.93	64.32	349.24	1028.58	1350.94	1377.79	26.9	548.26	
23	417.40	278	416.09	694.0	86	233.0	146.56	103	94.2	-9.08	84.12	39.76	47.02	48.84	368.11	884.98	1240.88	1253.07	12.2	405.21	
24	323.80	221	341.52	562.1	15	192.7	178.16	103	75.7	-27.61	72.53	33.06	46.17	42.25	383.60	662.19	1024.46	1045.78	21.3	302.48	
Max	793.80	278	616.94	877.10	108	238.4	198.02	103	156.0	53.74	90.34	64.44	67.13	77.54	440.36	1249.27	1540.88	1563.61	49.5	769.43	
Min	312.18	111	289.60	405.82	0	134.7	94.36	102	65.5	-36.75	16.83	29.42	38.99	39.52	224.39	544.49	841.05	868.12	-25.9	277.10	

HOURLY DATA ON MINIMUM DEMAND MET DAY

DATE: 17.02.2011

All figures in MW

HRS.	Total ISGS Injection (MW)	STATE SECTOR													ER	Total N.E.R GEN	Total Demand Met	Gross Demand met = Sum of demand met of all the states+loss	Actual Loss	Total Drawal by States
		ASEB			MeSEB			Tripura			Manipur	Mizoram	Nagaland	ArPr						
		GEN	Demand Met	Drawal	GEN	Demand Met	Drawal	GEN	drawal	Demand Met	DM	DM	DM	DM						
1	369.99	171	337.6	166.63	0	141.1	141.10	102	-29.55	72.66	32.10	31.91	43.02	35.69	73.47	643.2	694.1	716.68	22.5	347.45
2	375.63	167	328.3	161.62	0	140.2	140.19	102	-32.14	70.07	27.36	31.72	42.28	38.60	59.10	644.5	678.5	703.56	25.1	350.54
3	378.00	133	273.4	140.36	0	151.9	151.88	102	-32.76	69.46	25.17	29.95	34.35	33.93	29.02	613.2	618.1	642.23	24.1	353.88
4	379.13	135	270.3	135.35	0	150.7	150.74	102	-32.95	69.26	25.14	29.23	36.05	34.38	24.25	616.3	615.1	640.55	25.4	353.71
5	381.63	134	281.7	147.50	0	151.1	151.09	102	-31.10	71.11	35.14	31.84	38.59	36.60	70.28	618.0	646.0	688.29	42.2	339.39
6	547.23	124	307.8	184.07	0	151.1	151.09	102	-23.19	79.02	58.87	40.49	52.47	45.46	-6.74	773.1	735.2	783.61	48.5	498.77
7	543.82	131	373.3	241.85	36	172.9	136.79	102	-12.27	89.94	68.87	59.31	63.24	48.53	112.65	813.6	876.1	926.21	50.1	493.69
8	534.21	155	437.3	282.23	36	177.7	141.67	102	-3.69	98.52	63.04	49.59	60.31	53.80	147.24	827.5	940.2	974.73	34.5	499.72
9	416.23	160	428.4	268.78	36	197.0	160.56	102	-4.95	97.26	57.89	39.72	49.91	45.94	214.98	714.4	916.1	929.40	13.4	402.88
10	352.83	166	448.3	281.85	36	169.2	132.92	102	-10.79	91.42	63.70	40.42	32.65	42.24	257.81	657.8	888.0	915.60	27.6	325.19
11	376.92	134	400.3	265.83	24	177.0	153.52	102	-19.03	83.18	54.36	41.10	37.37	41.59	235.09	637.1	834.9	872.20	37.2	339.67
12	347.48	162	446.8	284.39	0	140.5	140.52	102	-25.79	76.43	53.11	40.33	37.30	39.10	249.21	612.1	833.6	861.31	27.7	319.78
13	352.40	140	425.9	285.40	0	161.4	161.42	102	-24.44	77.77	53.55	39.83	37.17	40.47	270.93	595.1	836.1	866.00	29.9	322.50
14	346.41	149	427.7	278.94	0	167.6	167.57	102	-26.25	75.96	46.71	40.71	45.46	35.85	269.69	597.4	840.0	867.09	27.1	319.32
15	355.54	160	417.4	257.92	0	160.7	160.67	102	-21.35	80.86	62.09	49.26	48.84	31.84	243.08	617.3	851.0	860.35	9.3	346.20
16	424.09	112	375.0	263.15	27	144.6	117.56	102	-15.76	86.45	59.19	55.20	56.73	35.93	168.16	665.1	813.0	833.26	20.2	403.84
17	626.94	121	464.8	344.25	51	164.2	113.59	102	1.73	103.94	62.97	57.43	32.13	51.55	64.20	900.3	937.0	964.43	27.5	599.47
18	779.55	114	599.4	485.21	75	198.1	123.57	102	31.78	133.99	73.09	67.58	54.08	62.77	159.01	1070.6	1189.1	1229.53	40.5	739.09
19	802.72	178	738.4	559.94	87	213.6	127.06	102	34.12	136.33	62.82	64.12	55.04	72.49	206.95	1169.9	1342.8	1376.81	34.0	768.67
20	857.91	66	638.4	572.28	83	209.9	127.13	102	40.05	142.26	86.07	59.54	64.77	68.16	192.08	1109.1	1269.2	1301.11	32.0	825.96
21	822.01	69	604.7	535.19	83	207.6	124.76	102	31.18	133.39	42.22	53.71	58.63	57.06	140.47	1076.5	1157.3	1216.97	59.7	762.31
22	637.23	69	518.7	449.22	83	205.9	123.16	102	13.02	115.23	78.06	43.79	49.68	53.09	198.84	891.7	1064.5	1090.51	26.0	611.22
23	449.47	69	428.2	358.70	72	190.0	118.43	102	-11.14	91.07	76.41	36.60	32.89	41.05	205.76	692.8	896.2	898.52	2.3	447.21
24	409.61	118	387.7	269.24	60	240.6	180.83	102	-31.93	70.28	63.20	29.43	41.65	36.16	222.94	690.1	869.1	913.01	44.0	365.65
Max	857.91	178	738.4	572.28	87	240.6	180.83	102	40.05	142.26	86.07	67.58	64.77	72.49	270.93	1169.9	1342.8	1376.81	59.7	825.96
Min	346.41	66	270.3	135.35	0	140.2	113.59	102	-32.95	69.26	25.14	29.23	32.13	31.84	-6.74	595.1	615.1	640.55	2.3	319.32

ANNEXURES
&
EXHIBITS

RESERVOIR PARTICULARS OF THE MONTH :

Feb-11

Name of the Reservoirs	FRL	MDDL	Beginning of the month		End of the month	
			Level	Energy content(MU)	Level	Energy content(MU)
KHANDONG	719.3 M	704 M	713.65	12.50	712.30	10.50
KOPILI	609.5 M	592.83 M	604.30	60.00	602.17	44.00
LOKTAK	768.5 M	766.2 M	768.10	140.00	767.76	80.00
BARAPANI	3220 Ft	3150 Ft	3195.60	25.70	3188.39	19.70
GUMTI	93.55 M	83.6 M	88.55	10.50	87.25	6.70
DOYANG	333 M	306 M	317.22	17.50	315.35	14.00

FREQUENCY ANALYSIS FOR THE MONTH OF : Feb-11

Frequency	(Freq.in Hz)	(Time: H:M)	(Date:D.M.Y)
1. Maximum frequency	50.67	5:04	21.02.11
2. Minimum frequency	49.08	20:03	02.02.11
3. Monthly average	49.88		

Frequency in Hz as %age of time for the blocks :

f < 49.5	49.5 < f < 50.2	f > 50.2
4.42	88.91	6.67

Daily Frequency Variation Index :

DATE	FVI	DATE	FVI
01-Feb-11	1.070	17-Feb-11	0.350
02-Feb-11	1.070	18-Feb-11	0.480
03-Feb-11	1.940	19-Feb-11	0.380
04-Feb-11	1.060	20-Feb-11	0.380
05-Feb-11	1.350	21-Feb-11	0.440
06-Feb-11	0.630	22-Feb-11	0.350
07-Feb-11	0.320	23-Feb-11	0.500
08-Feb-11	0.370	24-Feb-11	0.290
09-Feb-11	0.840	25-Feb-11	0.300
10-Feb-11	1.110	26-Feb-11	0.340
11-Feb-11	0.780	27-Feb-11	0.250
12-Feb-11	0.570	28-Feb-11	0.330
13-Feb-11	0.250		
14-Feb-11	0.310		
15-Feb-11	0.450		
16-Feb-11	0.340	Average FVI	0.602

Annexure-III

Details of Scheduled Bilateral Exchanges within the Region in

Feb-11

Sl.No.	From	To	Energy (At Seller Injn. Point) (MWH)		Energy (At State Periphery) (MWH)
1	Tripura(Baramura)	Manipur	3192.000000		3076.176000
2	Tripura(Baramura)	Mizoram	5244.000000		5055.554438
3	APDCL	MeECL (NVVN)	2940.000000		2834.820000
4	MeECL	APDCL (NVVN)	2800.000000		2698.400000
5	TSECL	MeECL (NVVN)	3240.000000		3122.160000
6	ASEB	POWERGRID^	152.171250	^ The actual energy consumed by POWERGRID	

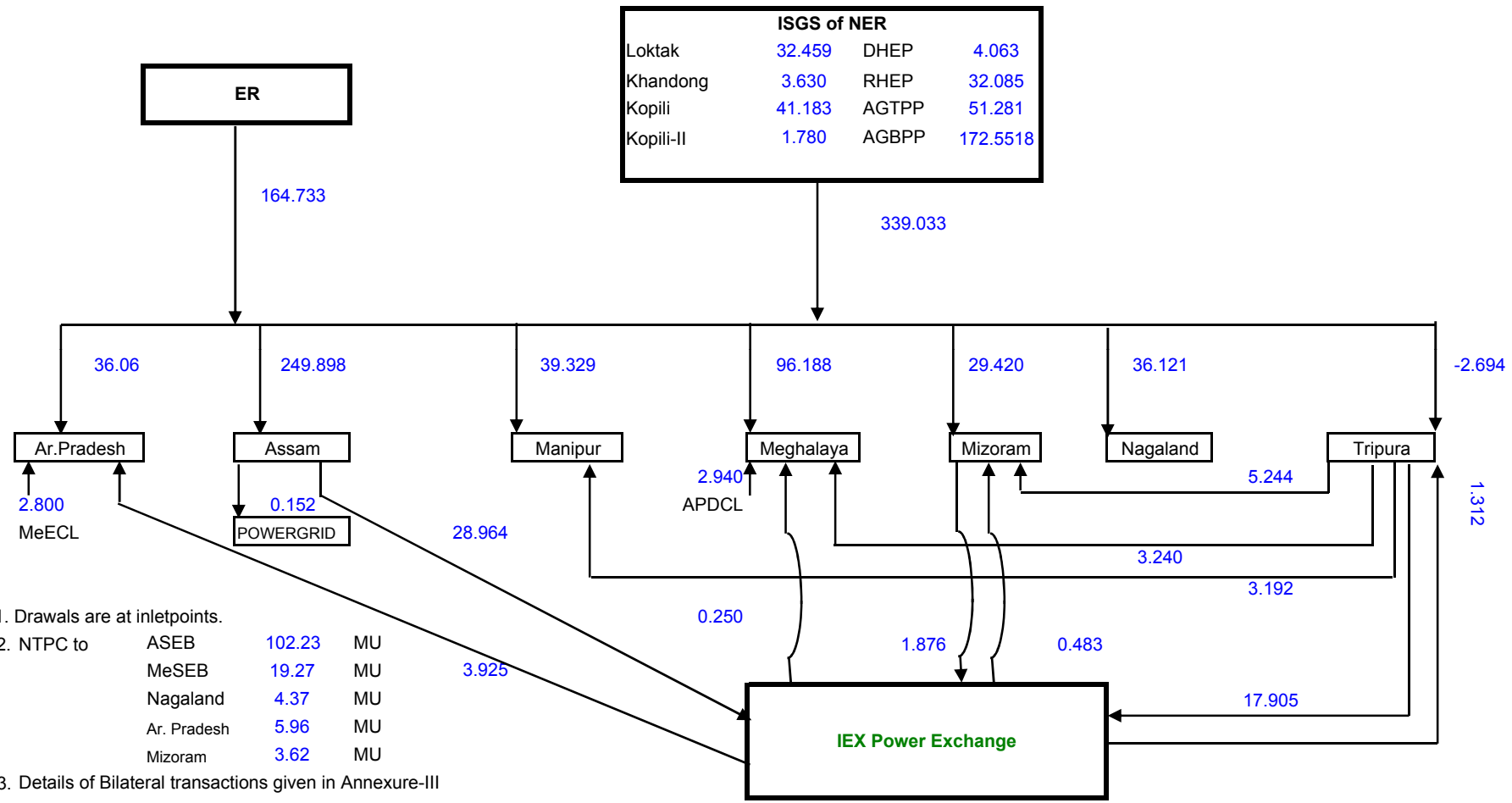
Scheduled Bilateral Exchange with SEBs / Organisations in other Regions

Sl.No.	From	To	Energy (At Seller Periphery) (MWH)	Energy (At NER-ER Periphery) (MWH)	Energy (At Buyer Periphery) (MWH)
1	WBSEDCL	APDCL (NVVN)	1215.000000	1181.400000	1140.9
2	WBSEDCL	APDCL (NVVN)	5665.120000	5507.570000	5319.1
3	HPPC	APDCL (NVVN)	325.060000	304.260000	292.350000
4	HPPC	APDCL (NVVN)	9210.470000	8590.310000	8276.070000
5	MIEL	APDCL (NVVN)	4200.000000	3750.720000	3603.120000
6	NBVL	APDCL (KISPL)	29040.000000	27129.600000	26150.880000
7	NDPL	MeECL (NVVN)	6720.000000	6173.600000	5948.960000
8	TSECL	MSEDCL (NVVN)	3360.000000	3238.080000	
9	TSECL	TNEB (NVVN)	1456.000000	1403.200000	
10	Farakka*	Ar. Pradesh	3166.886875	3085.475000	2972.801350
11	Kahalgaon 1*	Ar. Pradesh	1054.125625	1014.650000	977.182700
12	Talcher*	Ar. Pradesh	1740.081500	1692.300000	1631.098350
13	Farakka*	Assam	40365.528625	39295.800000	37862.788050
14	Kahalgaon 1*	Assam	8650.730000	8427.200000	8116.776650
15	Kahalgaon 2*	Assam	37134.555700	36132.900000	34804.897675
16	Talcher*	Assam	16083.372875	15653.475000	15088.224925
17	Farakka*	MeECL	5901.402000	5742.400000	5533.119775
18	Kahalgaon 1*	MeECL	1990.642850	1946.525000	1874.825000
19	Kahalgaon 2*	MeECL	11742.152000	11433.575000	11013.350150
20	Talcher*	MeECL	3241.618125	3153.550000	3039.703950
21	Farakka*	Nagaland	2299.582375	2242.150000	2161.266575
22	Kahalgaon 1*	Nagaland	802.608600	770.075000	742.142450
23	Talcher*	Nagaland	1267.085000	1230.825000	1186.783475
24	Farakka*	Mizoram	1931.218250	1884.300000	1815.583000
25	Kahalgaon 1*	Mizoram	598.584000	572.800000	551.575000
26	Talcher*	Mizoram	1087.439000	1056.375000	1018.265000

Bilateral exchange through IEX Power Exchange (-ve means injection, +ve means drawal)

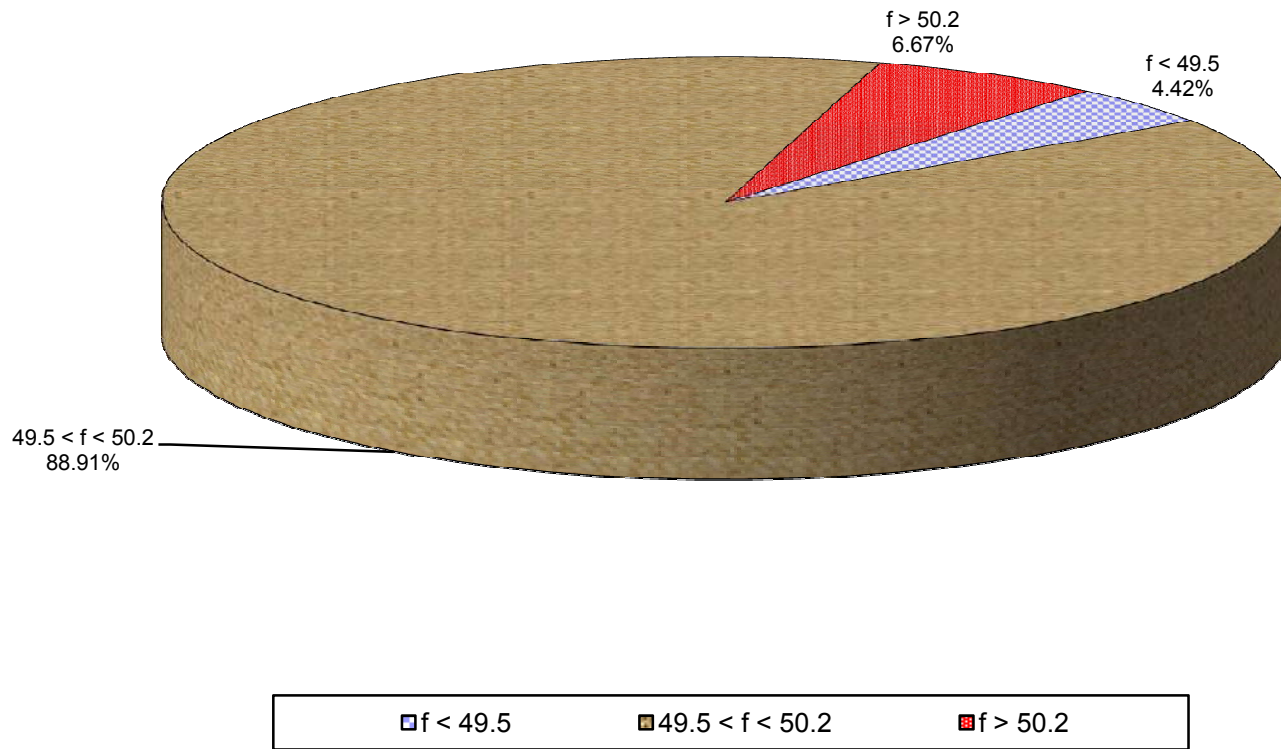
27	Arunachal Pradesh			4073.200000	3925.040000
28	Assam		-28963.550000	-27908.520000	
29	MeECL			260.000000	250.380000
30	Mizoram		-1875.950000	-1808.000000	
31	Mizoram			500.000000	483.000000
32	Tripura		-17904.710000	-17258.000000	
33	Tripura			1362.100000	1312.200000

ENERGY EXCHANGE(in MU) IN NER DURING February, 2011

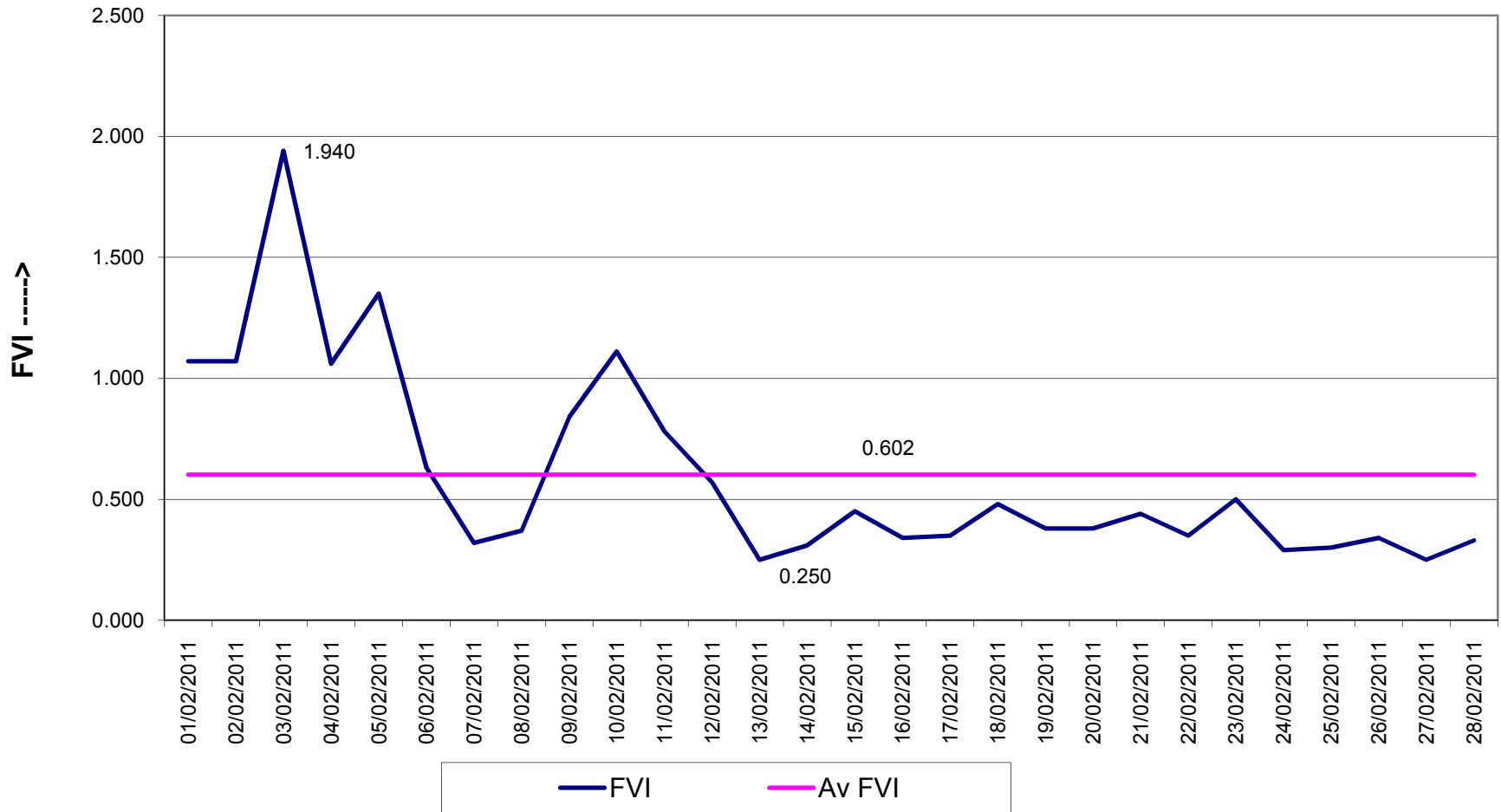


N.B - 1. Drawals are at inletpoints.
 2. NTPC to ASEB 102.23 MU
 MeSEB 19.27 MU
 Nagaland 4.37 MU
 Ar. Pradesh 5.96 MU
 Mizoram 3.62 MU
 3. Details of Bilateral transactions given in Annexure-III

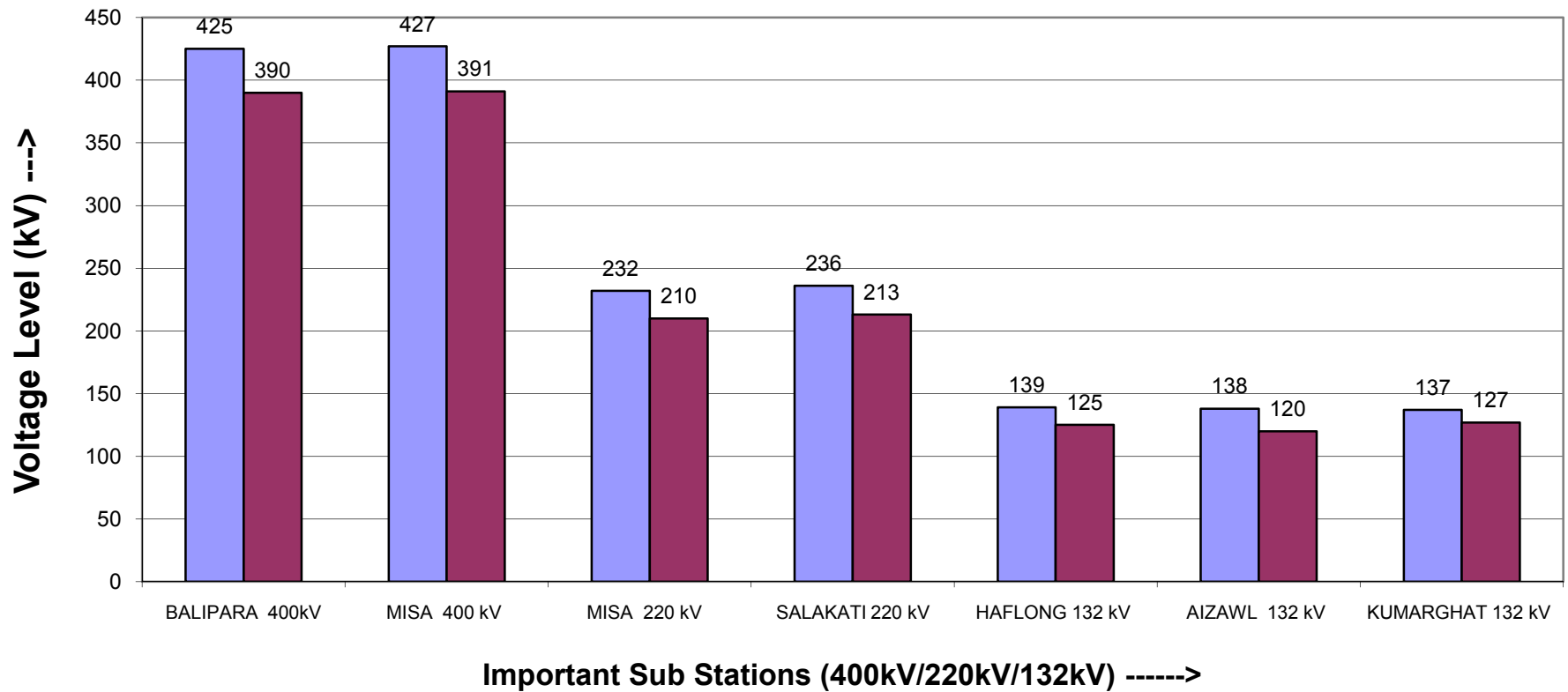
Frequency Duration for February, 2011



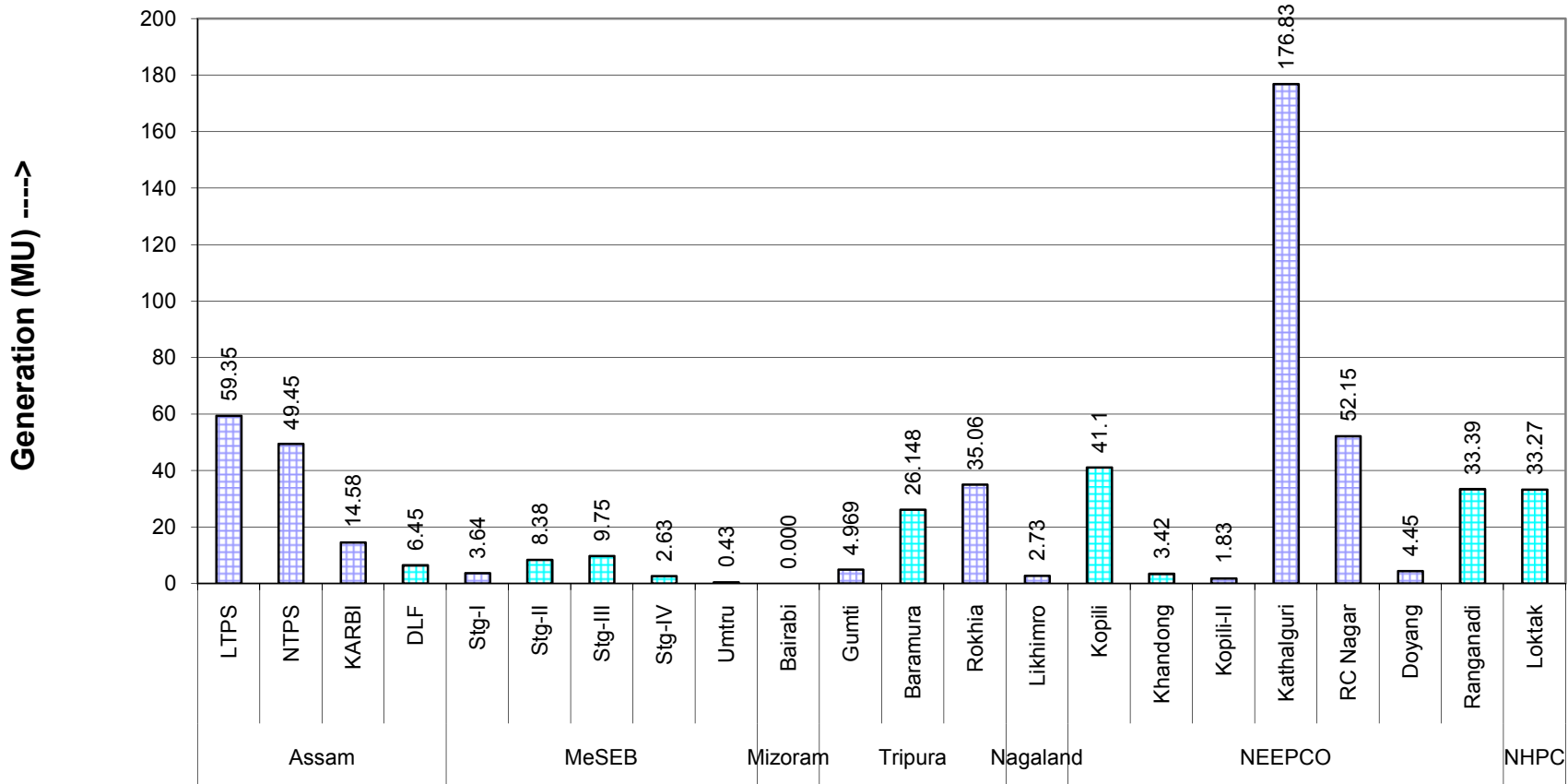
FVI Characteristics for February, 2011



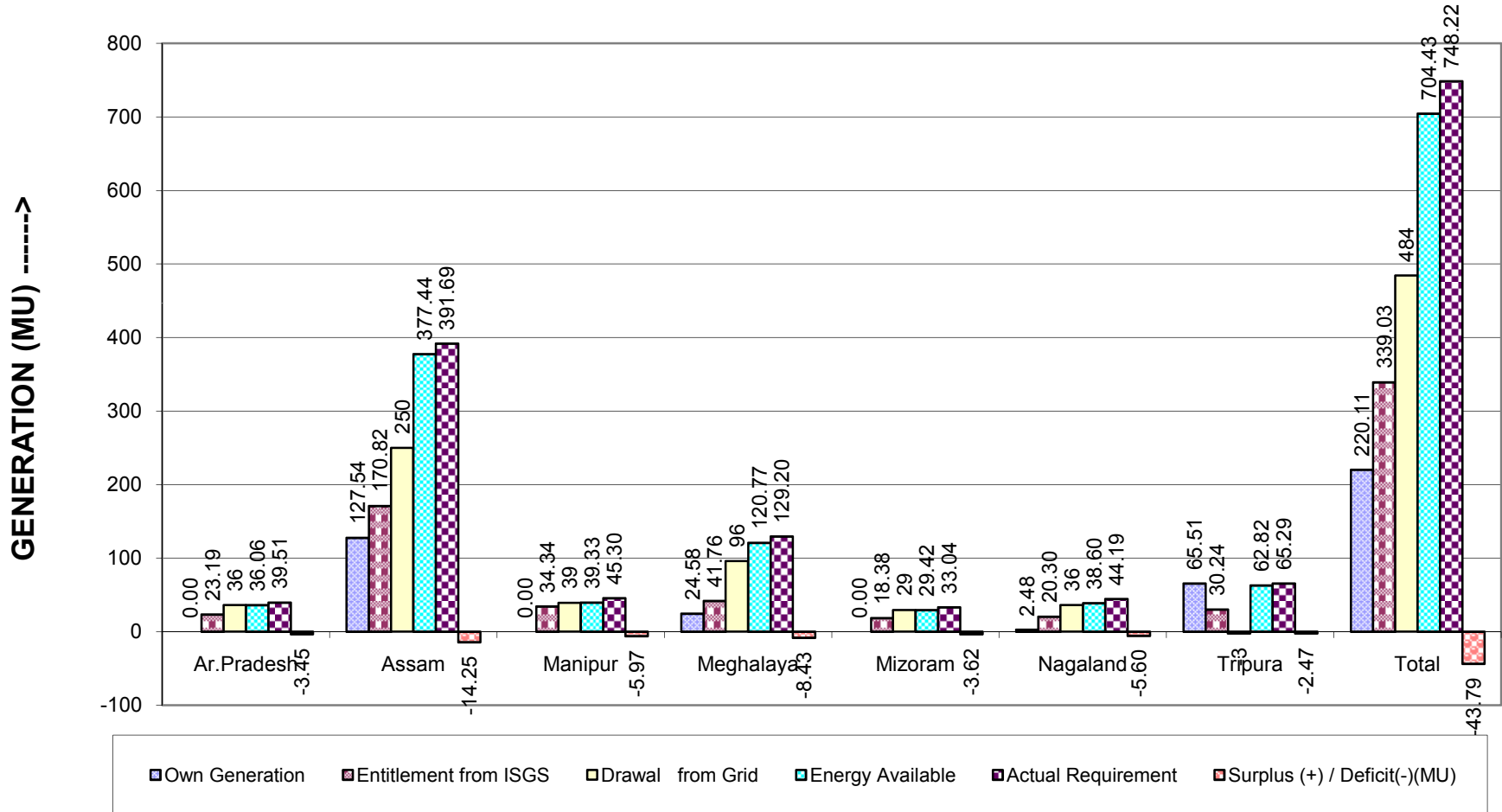
Maximum & Minimum Voltage Levels of Important Substations in NER during February, 2011



State and Central Sector Generation (MU) in NER in February, 2011



NER States Energy Scenario in February, 2011



Reservoir Statistics of NER in February, 2011

