¼ãâÀ¦ã ÔãÀ‡ãŠãÀ Government of India
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Central Electricity Authority

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North Eastern Regional Power Committee

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Progress Report

For the month of

February, 2012

CONTENTS

NORTH EASTERN REGIONAL POWER COMMITTEE

Brief highlights of North Eastern Regional Power System for the month of February, 2012

- The maximum unrestricted demand during the month of February, 2012 was 1813 MW, which was 1699 MW in the month of January, 2012. The peak demand met in NER during the period under review was 1620 MW, which was 1689 MW last month.

- The energy requirement during the month of February, 2012 was 832.63 MU, which was 891.43 MU in the month of January, 2012. The energy availability in NER during the period under review was 742.76 MU, which was 807.90 MU last month.

- The maximum, minimum & average system frequency were 50.56, 49.10 & 49.90 Hz respectively. The maximum, minimum & average FVI were 0.82, 0.33 & 0.578 respectively. The average FVI was less than its previous month's figure. (refer Annex-II).

- Maximum export of power from NER to ER was 183 MW (on 26/02/12 at 15:16 hrs) and that from ER to NER was 665 MW (18/02/12 at 00:03 hrs). Total net energy import during the month was 269.34 MU (from ER).

SALIENT FEATURES OF
NORTH EASTERN REGIONAL GRID FOR FEBRUARY, 2012

1	New unit/ transmission lines/Transformers commissioned during this month		**Nil**	
2	Number of total grid disturbance during this month		**Nil**	
			Feb-12	**Feb-11**
3	**Installed Capacity** of the Region (in MW)(grid)		2133.32	2054.12
4	**Energy Generation in MU (Gross)::**			
	Thermal		381.483	405.438
	Hydel		115.057	164.572
	Diesel / Oil		0.000	0.000
	Total		496.540	570.010
5	**Demand in MW ::**			
	Registered Peak demand		1813.00	1665.00
	Peak demand met		1622.28	1551.00
	Shortage (% age)		-10.52	-6.85
6	**Regional Energy(Gross) in MU ::**			
	Energy requirement		832.63	748.22
	Energy availability		742.76	704.43
	Surplus (+) / Deficit (-) (% age)		-10.79	-5.85
7	**Inter Regional Energy Exchange in MU ::**			
	NER ----> ER		2.250	1.981
	ER ----> NER		271.590	166.714
	Net Import		269.340	164.73
8	**Frequency profile ::**			
	Average frequency (Hz)		49.90	49.88
	Average Frequency Variation Index		0.578	0.602
9	Load Factor (in %)		58.86	62.96

ENERGY GENERATION IN THE REGION FOR THE MONTH OF **Feb-12**

All figures in MU

Constituents	Hydro		Coal / Oil fired		Gas Based(OpenCycle)		Gas Based(Com Cycle)		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	10.740	10.633	0.000	0.000	75.784	75.026	51.073	49.541	137.597	135.199
Meghalaya	25.895	25.636	0.000	0.000	0.000	0.000	0.000	0.000	25.895	25.636
Mizoram	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tripura	0.000	0.000	0.000	0.000	66.789	66.121	0.000	0.000	66.789	66.121
Nagaland	2.392	2.368	0.000	0.000	0.000	0.000	0.000	0.000	2.392	2.368
Total (State Sector)									**232.673**	**229.325**
Central Sector :										
NEEPCO :										
Khd+Kop+Kop-II	27.673	27.396	0.000	0.000	0.000	0.000	0.000	0.000	27.673	27.396
K'guri	0	0	0.000	0.000	0	0	139.086	134.913	139.086	134.913
RCNagar	0	0	0	0	54.854	54.305	0	0	54.854	54.305
Doyang	5.242	5.189	0	0	0	0	0	0	5.242	5.189
Ranganadi	27.331	27.058	0	0	0	0	0	0	27.331	27.058
NHPC :										
Loktak	16.094	15.933	0.000	0.000	0.000	0.000	0.000	0.000	16.094	15.933
Total (Central Sector)									270.280	264.795
Total NER	115.367	114.214	0.000	0.000	197.427	195.453	190.159	184.454	**502.953**	**494.121**

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.	46.47	43.80	2.67	5.75%	90	87	3	3.50%
Assam	446.78	417.90	28.87	6.46%	987	946	41	4.18%
Manipur	36.17	33.47	2.70	7.47%	105	104	1	0.81%
M'laya	153.06	106.77	46.29	30.24%	290	255	35	12.16%
Mizoram	33.71	30.16	3.55	10.53%	82	76	6	7.08%
Nagaland	45.56	42.33	3.23	7.09%	100	99	1	1.23%
Tripura	70.88	68.33	2.56	3.61%	165	165	0	-0.27%
REGION	832.63	742.76	89.88	10.79%	1813	1622	191	10.52%

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	87.00	23/02/2012	49.94	0.16	3	90.16
Assam	946.00	24/02/2012	49.92	2.27	39	987.27
Manipur	104.00	13/02/2012	50.05	-0.16	1	104.84
Meghalaya	255.13	23/02/2012	49.94	0.46	35	290.46
Mizoram	76.00	12/02/2012	50.09	-0.21	6	81.79
Nagaland	99.00	14/02/2012	49.92	0.24	1	100.24
Tripura	165.00	12/02/2012	50.09	-0.45	0	164.55
REGION	1622.28	23/02/2012	49.94	2.92	188	1812.92

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

ESTIMATION OF ENERGY REQUIREMENT (in MU)

Average Frequency 49.90 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	18.132	3.631	43.802	22.039	43.802	0.131	2.54	46.474
Assam	135.199	131.693	72.750	282.705	78.261	417.904	1.254	27.62	446.778
Manipur	0.000	24.376	0.000	33.466	9.090	33.466	0.100	2.60	36.168
M'laya	25.636	19.325	23.397	81.129	38.407	106.765	0.320	45.97	153.058
Mizoram	0.000	14.139	2.690	30.162	13.333	30.162	0.090	3.46	33.712
Nagaland	2.368	15.442	8.038	39.961	16.481	42.329	0.127	3.10	45.557
Tripura	66.121	23.633	0.000	2.206	-21.426	68.328	0.205	2.35	70.884
REGION	229.325	246.740	110.506	513.431	156.185	742.756	2.228	87.65	832.631

*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 Sations / Units	Installed Capacity(MW)	Peak Generation(MW)	Energy Generation (MU)	
				Feb-12	Feb-11
	STATE SECTOR : HYDRO				
	ASSAM :: HYDRO				
1	KARBI HEP U - 1	50.00	50.20	5.524	8.350
2	KARBI HEP U - 2	50.00	73.70	5.216	6.230
	TOTAL	100.00		10.740	14.580
	MEGHALAYA :: HYDRO				
1	STAGE - 1	36.00	26.86	5.567	3.640
2	STAGE - 2	18.00	14.00	2.830	8.380
3	STAGE - 3	60.00	46.59	6.466	9.750
4	STAGE - 4	60.00	54.73	7.760	2.630
5	UMTRU	11.20	12.00	2.963	0.430
	TOTAL	185.20		25.585	24.830
	NAGALAND :: HYDRO				
6	LIKIMRO - 1				
7	LIKIMRO - 2	24.00	12.00	2.392	2.730
8	LIKIMRO - 3				
	TOTAL	24.00		2.392	2.730
	TRIPURA :: HYDRO				
9	GUMTI - 1	5.00	Gumti Stn. Peak = 0 MW	0.000	0.000
10	GUMTI - 2	5.00		0.000	2.554
11	GUMTI - 3	5.00		0.000	2.415
	TOTAL	15.00		0.000	4.969
	TOTAL STATE (HYDRO) :	324.20		38.717	47.109

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

Sl. No.	Power Sations / Units	Installed Capacity(MW)	Peak Generation(MW)	Energy Generation (MU)	
				Feb-12	Feb-11
	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 = 21.5 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		14.593	13.835
5	BARAMURA - 5	21.00		14.142	12.313
6	ROKHIA - 1	8.00	Rokhia Stn. Peak = 49.4MW	0.000	0.000
7	ROKHIA - 2	8.00		0.000	0.000
8	ROKHIA - 3	8.00		0.000	4.175
9	ROKHIA - 4	8.00		4.055	3.906
10	ROKHIA - 5	8.00		0.000	0.000
11	ROKHIA - 6	8.00		4.754	0.000
12	ROKHIA - 7	21.00		14.456	13.494
13	ROKHIA - 8	21.00		14.790	13.485
	TOTAL	148.50		66.789	61.208
	ASSAM :: THERMAL				
1	LTPS - 1	15.00	15.1	8.460	0.420
2	LTPS - 2	15.00	18.1	8.380	7.580
3	LTPS - 3	15.00	0.0	0.000	7.620
4	LTPS - 4	15.00	15.9	7.122	5.750
5	LTPS - 5	20.00	22.01	13.479	13.170
6	LTPS - 6	20.00	75.08	15.099	13.590
7	LTPS - 7	20.00	22.3	12.549	11.220
8	NTPS - 1	20.00	20.5	12.888	12.900
9	NTPS - 2	21.00	21.0	13.087	13.260
10	NTPS - 3	21.00	18.5	11.243	8.160
11	NTPS - 4	11.00	11.5	6.827	6.900
12	NTPS - 5	22.00	0.0	0.000	0.000
13	NTPS - 6	22.00	11.5	7.028	8.230
14	DLF	24.50	7.09	4.592	6.450
	TOTAL	261.50		120.754	115.250
TOTAL STATE THERMAL/GAS :		432.92		187.543	176.458
TOTAL SC GEN(HY+TH/GAS)		**757.12**		**226.260**	**223.567**

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

Sl. No.	Power Sations / Units	Installed Capacity(MW)	Peak Generation(MW)	Energy Generation (MU)	
				Feb-12	Feb-11
	CENTRAL SECTOR : HYDRO				
1	KHANDONG - 1	25.00	22.40	0.467	0.890
2	KHANDONG - 2	25.00	24.83	2.373	2.530
3	KOPILI Stg - II	25.00	23.52	1.919	1.830
4	KOPILI - 1	50.00	50.63	8.884	0.000
5	KOPILI - 2	50.00	56.55	8.191	11.090
6	KOPILI - 3	50.00	0.00	0.000	15.150
7	KOPILI - 4	50.00	51.89	5.839	14.860
8	DOYANG -1	25.00	35.00	1.723	2.140
9	DOYANG -2	25.00	33.00	1.751	1.280
10	DOYANG -3	25.00	22.12	1.768	1.030
11	LOKTAK - 1	35.00	37.58	5.312	0.000
12	LOKTAK - 2	35.00	37.11	2.808	11.640
13	LOKTAK - 3	35.00	36.81	7.974	21.630
14	RANGANADI - 1	135.00	136.59	11.126	18.620
15	RANGANADI - 2	135.00	137.60	10.191	14.770
16	RANGANADI - 3	135.00	137.71	6.014	0.000
TOTAL HYDRO :		**860.00**		**76.340**	**117.460**
	CENTRAL SECTOR : THERMAL/GAS				
1	KATHALGURI - 1	33.50	35.54	13.970	21.430
2	KATHALGURI - 2	33.50	34.30	11.258	21.020
3	KATHALGURI - 3	33.50	34.89	21.940	21.300
4	KATHALGURI - 4	33.50	35.30	22.490	21.030
5	KATHALGURI - 5	33.50	35.51	18.248	20.830
6	KATHALGURI - 6	33.50	35.36	20.644	20.890
7	KATHALGURI - 7	30.00	0.00	0.000	15.930
8	KATHALGURI - 8	30.00	55.06	15.999	17.660
9	KATHALGURI - 9	30.00	26.99	14.538	16.740
10	R.C.NAGAR - 1	21.00	22.25	13.708	13.370
11	R.C.NAGAR - 2	21.00	23.51	13.637	13.160
12	R.C.NAGAR - 3	21.00	23.90	13.703	12.740
13	R.C.NAGAR - 4	21.00	23.93	13.806	12.880
TOTAL THERMAL/GAS :		375.00		193.940	228.980
TOTAL CS (HY + TH/GAS) :		1235.000		270.280	346.440
TOTAL NER GEN(HY+TH/GAS) :		**1992.120**		**496.540**	**570.007**

Plant Load Factor (PLF) and Voltage Profile :

Feb-12

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	65.089	77.93
2	NTPS*	AEGCL	117.00	51.073	62.72
3	Baramura	Tripura	58.50	28.735	70.57
4	Rokhia	Tripura	90.00	38.054	60.75
5	AGBPP	NEEPCO	291.00	139.086	**68.67**
6	AGTPP	NEEPCO	84.00	54.854	93.83

*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	429	377
2	MISA 400 kV	430	382
3	MISA 220 kV	234	208
4	SALAKATI 220 kV	220	216
5	HAFLONG 132 kV	140	122
6	AIZAWL 132kV	137	118
7	KUMARGHAT 132kV	141	119

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	0.00	91.10	8.90
BALIPARA	0.00	0.02	99.31	0.67

1 **INTER - REGIONAL EXCHANGE :**

All Fig in MU

NER to ER	2.250
ER to NER	271.590
NET IMPORT	269.340

2	**Major Grid Disturbances during this month**	**Nil**

3	**MEETING HELD BY NERPC DURING THIS MONTH**	1. 70th OCC Meeting was held on 08.02.12 at Guwahati.

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	2014	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	2015	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	2014	
[F] MIZORAM				
(a) Tuivai Hydel Project	2	51	2015	Activities in progress
(b) Bairabi Dam Project	2	2 X 40	2015	Activities in progress
(G) MeECL				
(a) Myntdu - Leishka HEP	2+1	3x42	2011-12	Activities in progress
(b) New Umtru HEP	2	2X20	2013	Activities in progress

PROGRESS OF TRANSMISSION LINES IN NE REGION

	Name of the line	Length	Commi'ng Sch		Total no.	Stubs com -	Tower	Stringing	Remarks
		(ckt kms)	Ann.pl	Ant/revd	of locs .	pleted(nos)	Erected	complt-ckm	
	A : Lines under ASEB.								
1	132 kV, S/C Rangia - Sipajhar - Rowta- Depota	147							Work in progress
2	132 kV, S/C Sarusajai - Kahilipara	8							Work in progress
3	132 kV Nazira- Garmur (Mariani) S/C	63							Tender is in progress
4	220 kV Kathalguri - Tinsukia 2nd Ckt	50	2006-07						Work in progress
	B : Lines under Meghalaya :								
1	132 kV Agia - Nangalbibra	110		2012					Work in progress
	C : 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(Conductor)	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
	D : Lines under NETC :								
1	400 kV D/C Palatana - Silchar	1971	Aug-13	Sep-14	492	2591	1408	4	Matching with HVDC Converter
	E : POWERGRID Lines:								
1	+/- 800kv HVDC Bipole Biswanath Chariyali - Agra	1971	Aug-13	Sep-14	4228	2591	1408	4	Matching with HVDC Converter
2	400kV Balipara - Biswanath Chariyali D/C	130	Aug-13	Aug-13	167	137	121	60	Matching with L. Subansiri
3	LILO of 400 kv Ranganadhi Balipara D/C at Biswana	54	Aug-13	Aug-13	76	70	36	4	Matching with Gen. of L.Subansiri
4	132 kV D/C B. Chariyali-B. Chariyali (AEGCL)	32	Aug-13	Aug-13	55	21	2		
5	400 kV Kameng-Balipara D/C	110	Feb-13	Mar-14	142	54	4		Matching with Gen. of Kameng
6	400kV Balipara- Bongaigaon D/C line	596	Feb-13	Feb-13	838	778	557	160	Matching with Gen. of Kameng
7	400kV Lower Subansari-Biswanath Charrali line-I	334	Feb-13	Dec-13	444	297	213	38	Matching with Gen. Project
8	400kV Lower Subansari-Biswanath Charrali Line-II	340	Feb-13	Feb-13	442	314	195	30	Matching with Gen. Project
9	132 kV Kopili- Khandong-II	12	Sep-09	2011	43	37	24	8	Forest clearance awaited
10	400 kV D/C Bongaigaon TPS-Bongaigaon line	15	Mar-12		15	11	4		
11	400kV D/C Pallatana- Surajmani –nagar line	70	Dec-11	Mar-12	87	78	38		Copmpl. of Suraj-maninagar by TSECL
12	400kV D/C Silchar-Purba Kanchan Bari line	244	Mar-12	Jun-12	325	196	118	10	ROW problem
13	400kV D/C Silchar-Melriat(New) line	320	Dec-12	Mar-13	400	123	68		1st Stg Forest clearance awaited
14	400kV D/C Silchar-Imphal(New) line	280	Dec-12	Jun-12	389	9			Likely to be delayed
15	220kV D/C Mariani(New)-Mokikchung(PG)	112	Dec-12	Mar-13	160	11			Efforts to be made to match U#2 of Palatana GBPP
16	132kV Silchar-Badarpur(PG) SW Interconnecting lir	42	Nov-11		69	68	64	28	To match with U#1 of Palatana
17	132kV D/C Melriat(New)- Melriat (Mizo) Interconnec	60	Dec-12	Mar-13	85				Compl. Matching readiness of Melriat S/s by Mizoram
18	132kV D/C Silchar-Srikona (AEGCL) line	6	Dec-11	Jan-12	7	7	7	2	Engg. In progress
19	132kV D/C Silchar-Hailakandi (AEGCL) line	50	Dec-11	Mar-12			5		Completion matching with S/S
20	132kV D/C Mokikchung(PG)- Mokikchung(Naga) lin	2	Dec-12	Mar-13	4				Efforts to be made to match U#2 of Palatana GBPP
21	132 kV S/C Pasighat-Roing line (on D/C)	70	Dec-12	Mar-13	550	62			Completion matching with S/S.
22	132 kV S/C Roing-Tezu line (on D/C)	60	Dec-12	Mar-13	550	62			Engg. in progress
23	132 kV S/C Tezu-Namsai line (on D/C)	90	Dec-12		180	8			Completion matching with S/S.
24	LILO of 400kV S/C Kathalguri -Misa line at Mariani(	2	Dec-12		20				
25	LILO of 132 kV S/C Loktak-Imphal line at Imphal (N	60	Dec-12		150				

Name of the line	Length	Commi'ng Sch		Total no.	Stubs com -	Tower	Stringing	Remarks
	(ckt kms)	Ann.pl	Ant/revd	of locs .	pleted(nos.)	Erected	complt-ckm	
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 (NLCPR)								
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-12

Organisation	Actual (MU)	Schedule (MU)	UI Energy (MU)	UI Receivable (Rs. in Lakhs)	UI Payable (Rs. in Lakhs)
Arunachal Pradesh	43.802	25.466	18.336	0.000	531.702
ASEB	282.705	275.004	7.701	23.898	171.841
Manipur	33.466	29.908	3.559	0.000	128.617
MeSEB	81.129	54.376	26.753	0.000	809.304
Mizoram	30.162	21.823	8.339	0.000	254.827
Nagaland	39.961	23.052	16.908	0.000	497.734
Tripura	2.206	6.453	-4.247	118.974	0.868

Entitlement, Schedule, Drawal and UI Charges Feb-12

Name of beneficiaries	Entit. from scheduled energy from ISGS in NER (Ex-PP State)	Entit. from scheduled energy from ISGS in ER (Ex-PP State)	Total Entitlement (Ex-PP State) (in MU)	Schedule (Ex-PP State) (in MU)	Actual Drawal from Grid (MU)	Over Drawal (+) / Under Drawal ( ) (MU)	UI Payable (-)/ Receivable (+) (Rs. In Cr)
Arunachal Pradesh	18.132	3.631	21.763	25.466	43.802	18.336	-5.317
ASEB	131.693	72.750	204.443	275.004	282.705	7.701	-1.479
Manipur	24.376	0.000	24.376	29.908	33.466	3.559	-1.286
MeSEB	19.325	23.397	42.722	54.376	81.129	26.753	-8.093
Mizoram	14.139	2.690	16.829	21.823	30.162	8.339	-2.548
Nagaland	15.442	8.038	23.480	23.052	39.961	16.908	-4.977
Tripura	23.633	0.000	23.633	6.453	2.206	-4.247	1.181

(Source : UI A/c, NERPC)

Schedule for ISGS's Generation and State's Drawl for the month of Feb-12

States	Schedule From ISGS(MWH)	Bilateral Schedule from Outside NER (MWH)	Total Schedule (MWH)	Ex.PP. Drawal (MWH)	Tr. Energy (MWH)
Arunachal Pradesh	18453.06	3733.98	22187.03	45466.28	45466.28
ASEB	134936.68	74808.30	209744.98	293446.47	293446.47
Manipur	24872.79		24872.79	34737.91	34737.91
MeSEB	22324.71	24058.60	46383.31	84211.72	84211.72
Mizoram	14446.61		14446.61	31307.61	31307.61
Nagaland	15838.28	8265.53	24103.80	41478.86	41478.86
Tripura	23863.46		23863.46	2290.28	23863.46
Total	254735.59	110866.40	365601.99	532939.14	554512.32

ISGS	Schedule (MWH)	Injection (MWH)
LOKTAK	15613.83	15454.15
KHANDONG	2736.50	2693.91
KOPILI-I	22804.70	22784.93
KOPILI-II	1850.60	1850.15
DHEP	4914.41	4794.81
RHEP	26087.24	26149.13
AGTPP	50253.11	53882.06
AGBPP	130475.21	135990.07
Total	254735.59	263599.21

Source : Provisional REA for the month: Feb-12

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)	AGTPP (84 MW)	Loktak HEP (90 MW)
Arunachal Pradesh	5.191	5.992	4.194	18.462	6.852	5.694	6.132	4.940
Assam	53.455	52.355	56.285	43.328	43.808	56.503	45.585	29.445
Manipur	7.395	6.945	6.555	8.373	7.865	8.105	8.313	30.115
Meghalaya	17.395	13.675	16.905	11.505	11.455	11.815	11.813	12.393
Mizoram	4.610	6.040	3.940	5.700	5.250	5.410	5.980	5.020
Nagaland	6.147	5.735	6.653	5.335	17.967	5.805	5.377	6.435
Tripura	5.807	9.258	5.468	7.297	6.803	6.668	16.800	11.652
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 2011-12

Projects	Installed Capacity (MW)	Design Energy (GWh)	Annual Fixed Charge (Rs. Crore)	Reference
KOPILI HEP	200	1186.14*	75.1117 *	*As per CERC order dated 30.09.2011 in petition No 294/2009.
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*	33.886 *	*As per CERC order dated 30.09.2011 in petition No 297/2009.
RHEP*	405	1509.69	290.7301	*As per CERC order dated 10.05.2011 in petition No.296/2009.
DHEP	75	227.24	58.5 *	*As per CERC order dated 03.10.07 in petition No 88/2007.
AGBPP	291	NA	233.81 *	As per CERC order dated 6.9.2011 in Pet.No295 / 2009
AGTPP	84	NA	67.9814 *	Base Rate of energy Charge as per the CERC Order *As per CERC order dated 11.03.11 in Pet.No 299/2009,^Base Engy. charge as per CERC order
LOKTAK HEP	105	448.00	95.7935 *	*As per CERC order dated 14.06.11 in Pet.No 108/2010

HOURLY DATA ON PEAK DEMAND MET DAY

DATE:- 12.02.2012

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	272.40	174	378.00	551.7	33	130.1	163.58	98	-18.7	78.79	21.80	33.18	46.21	56.38	392.74	577.16	820.64	838.83	18.2	254.22
2	275.53	171	331.58	502.8	9	101.2	110.64	98	-24.1	73.47	13.68	29.92	48.25	55.05	305.99	553.73	726.80	752.68	25.9	249.66
3	271.51	171	336.57	507.7	9	95.1	104.51	97	-23.5	73.55	15.24	30.00	44.87	54.80	311.96	549.16	724.19	754.59	30.4	241.11
4	278.91	171	337.89	508.6	9	77.1	86.46	98	-23.4	74.24	15.38	30.27	48.75	55.62	289.87	556.68	712.31	739.48	27.2	251.74
5	283.45	158	343.76	502.0	9	77.1	86.51	97	-22.4	74.63	23.81	30.60	48.85	57.10	304.33	548.15	717.09	746.00	28.9	254.54
6	281.88	177	380.13	556.6	9	125.5	134.91	98	-17.3	80.49	42.78	36.96	53.51	62.99	436.34	565.54	861.12	894.68	33.6	248.32
7	284.14	217	418.89	635.9	9	167.7	177.09	97	-1.7	95.53	46.75	60.00	68.45	71.48	579.60	607.75	1048.61	1080.71	32.1	252.04
8	291.36	217	410.27	626.8	9	154.2	163.64	98	8.2	106.17	46.03	55.05	64.08	65.64	535.94	615.30	1020.07	1043.83	23.8	267.60
9	301.81	157	380.70	537.8	46	158.9	205.33	98	3.5	101.27	43.13	55.25	59.87	64.10	487.37	603.16	922.53	946.25	23.7	278.09
10	277.72	154	305.14	459.3	46	148.1	194.48	98	-1.2	96.30	46.88	43.43	55.84	57.79	401.87	575.80	810.15	833.74	23.6	254.13
11	278.19	166	337.92	504.3	46	139.1	185.12	96	-13.0	83.43	53.02	40.94	52.93	58.49	418.33	586.94	835.88	862.87	27.0	251.20
12	269.31	139	343.39	482.4	46	128.4	174.59	97	-15.0	82.07	47.70	45.91	55.83	40.83	404.94	551.55	786.06	813.20	27.1	242.16
13	271.20	162	331.53	493.5	46	117.0	163.02	96	-18.5	77.93	42.86	46.97	55.97	48.80	377.25	575.62	786.63	810.39	23.8	247.44
14	268.77	162	325.01	487.5	46	115.5	161.43	97	-23.6	73.53	39.45	45.55	56.42	57.99	372.13	574.21	778.83	803.30	24.5	244.29
15	275.14	165	326.21	490.8	46	117.7	163.68	96	-21.0	75.09	42.66	51.49	58.94	56.07	386.15	581.81	796.75	825.89	29.1	246.00
16	273.68	171	348.67	520.1	46	124.3	170.18	96	-20.6	75.77	44.30	58.33	62.16	57.08	430.90	587.41	845.65	875.99	30.3	243.34
17	501.93	169	403.19	572.5	46	141.2	187.20	96	3.7	100.14	48.80	53.01	72.01	78.51	344.28	813.59	969.75	1015.41	45.7	456.26
18	653.09	212	531.88	743.9	51	130.9	182.11	97	66.8	163.41	65.79	57.23	82.00	86.72	413.57	1012.92	1233.30	1278.58	45.3	607.82
19	794.23	259	651.85	911.1	33	146.8	179.99	97	40.6	138.04	94.41	61.56	76.30	96.46	399.09	1184.09	1427.27	1452.50	25.2	768.99
20	852.42	257	621.42	878.7	33	143.3	176.42	97	61.7	158.65	100.94	57.31	76.16	92.14	330.45	1239.66	1410.27	1440.03	29.8	822.67
21	669.11	257	583.76	840.4	33	141.9	175.06	96	44.2	140.30	88.84	59.20	68.99	88.37	440.11	1054.99	1331.92	1365.78	33.9	635.25
22	622.89	208	520.40	728.7	33	153.2	186.33	97	29.0	125.62	82.12	49.10	60.11	79.74	376.50	960.95	1182.01	1207.63	25.6	597.26
23	443.38	168	403.73	572.1	9	134.6	143.95	96	1.7	97.97	78.23	37.79	42.34	65.36	371.62	717.37	932.11	983.32	51.2	392.17
24	321.26	158	381.93	540.0	42	117.1	158.86	96	-12.4	83.84	70.25	35.25	48.15	59.00	403.37	617.36	857.39	882.69	25.3	295.96
Max	852.42	259	651.85	911.11	51	167.7	205.33	98	66.8	163.41	100.94	61.56	82.00	96.46	579.60	1239.66	1427.27	1452.50	51.2	822.67
Min	268.77	139	305.14	459.33	9	77.1	86.46	96	-24.1	73.47	13.68	29.92	42.34	40.83	289.87	548.15	712.31	739.48	18.2	241.11

HOURLY DATA ON MINIMUM DEMAND MET DAY

DATE: 26.02.2012

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	IMPORT(+)/ EXPORT(-)					
1	269.23	168	341.6	509.66	42	138.7	180.36	96	-17.38	78.34	14.94	30.69	45.03	50.64	366.91	574.7	699.9	731.82	31.9	237.30
2	275.00	169	333.6	503.03	10	129.6	139.13	96	-19.91	76.34	14.94	28.53	48.72	50.81	343.75	550.1	682.6	714.96	32.3	242.66
3	278.97	160	356.4	516.27	10	128.7	138.21	96	-20.91	75.53	14.68	28.44	45.22	49.35	355.72	544.8	698.3	731.09	32.8	246.18
4	277.16	176	340.6	516.57	10	83.2	92.66	97	-21.14	75.56	15.82	27.78	48.50	51.19	301.83	559.3	642.6	675.64	33.1	244.10
5	280.82	181	351.1	532.57	10	89.4	98.86	97	-21.72	75.36	24.07	28.63	49.21	53.76	330.14	568.9	671.5	708.01	36.5	244.32
6	284.83	172	386.4	558.43	10	89.4	98.86	97	-15.24	82.06	42.70	36.66	53.34	58.55	458.33	563.7	749.1	790.64	41.6	243.24
7	304.79	209	358.5	567.45	10	157.0	166.47	98	-1.15	96.44	43.40	59.21	63.91	56.63	462.39	620.9	835.0	864.73	29.7	275.10
8	294.37	211	370.4	581.27	42	153.7	196.00	97	6.98	104.29	42.53	57.93	54.23	58.13	475.04	644.8	841.3	866.69	25.4	268.95
9	273.67	210	367.8	577.38	51	83.6	134.89	96	2.99	98.75	42.13	41.85	49.66	44.92	386.70	630.3	728.7	756.10	27.4	246.30
10	273.66	173	354.9	527.79	82	87.9	169.48	96	-0.14	95.91	48.24	32.92	55.33	50.40	383.46	624.1	725.6	753.14	27.5	246.16
11	269.59	171	330.5	501.04	75	101.1	176.16	92	-0.39	91.12	44.42	36.52	51.23	52.35	369.78	606.7	707.2	730.85	23.7	245.94
12	272.38	165	341.2	505.95	75	100.3	175.45	89	-2.77	86.08	35.07	43.40	47.74	55.14	373.34	601.1	708.9	734.53	25.6	246.75
13	272.52	171	314.5	485.29	50	118.8	168.38	88	-3.14	85.15	34.06	42.47	15.94	52.41	331.14	581.2	663.3	691.91	28.6	243.96
14	264.96	164	306.2	470.18	35	101.7	137.17	87	-9.26	77.67	22.55	37.24	20.03	47.97	277.54	551.3	613.4	629.39	16.0	248.93
15	275.33	168	305.3	473.75	27	143.9	171.15	92	-12.69	79.30	23.49	45.43	10.88	47.40	310.84	563.0	655.7	678.13	22.4	252.95
16	279.26	172	298.5	470.13	0	112.6	112.58	92	-10.25	82.04	24.24	55.37	26.65	46.22	280.65	543.2	645.6	652.16	6.6	272.65
17	425.84	169	376.1	545.36	0	134.5	134.53	91	-1.37	89.89	29.60	54.01	37.16	70.83	322.35	686.4	792.1	839.37	47.2	378.59
18	609.17	211	622.1	833.32	9	127.0	135.92	93	52.08	145.06	59.83	63.29	75.57	88.11	519.03	922.2	1181.0	1221.10	40.1	569.11
19	727.69	225	680.9	905.96	12	114.8	126.50	90	51.36	141.07	81.24	54.04	64.22	89.27	434.65	1054.1	1225.6	1251.97	26.4	701.29
20	875.59	220	692.1	912.28	3	132.3	135.61	90	59.56	149.91	89.72	52.29	62.11	88.74	333.63	1189.4	1267.2	1299.49	32.3	843.25
21	604.58	226	649.7	875.69	0	112.6	112.60	90	53.37	143.27	79.73	52.19	57.09	83.08	510.60	920.5	1177.6	1205.00	27.4	577.19
22	518.24	227	556.5	783.19	0	118.9	118.86	91	32.75	123.46	66.55	42.47	56.12	75.82	465.97	835.6	1039.8	1074.84	35.1	483.18
23	318.89	224	360.4	584.68	0	132.7	132.69	90	10.04	100.12	74.29	34.32	51.14	61.66	426.98	633.2	814.7	835.91	21.2	297.64
24	317.45	176	347.4	523.77	24	120.1	143.88	90	-5.26	85.23	63.78	31.28	44.02	56.79	365.76	608.0	748.6	773.66	25.0	292.44
Max	875.59	227	692.1	912.28	82	157.0	196.00	98	59.56	149.91	89.72	63.29	75.57	89.27	519.03	1189.4	1267.2	1299.49	47.2	843.25
Min	264.96	160	298.5	470.13	0	83.2	92.66	87	-21.72	75.36	14.68	27.78	10.88	44.92	277.54	543.2	613.4	629.39	6.6	237.30

ANNEXURES
&
EXHIBITS

Annexure-I

RESERVOIR PARTICULARS OF THE MONTH : **Feb-12**

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	714.45	14.49	712.75	9.99
KOPILI	609.5 M	592.83 M	598.68	22.40	597.53	18.70
LOKTAK	768.5 M	766.2 M	767.36	48.50	767.71	75.00
BARAPANI	3220 Ft	3150 Ft	3185.72	17.91	3179.63	13.29
GUMTI	93.55 M	83.6 M	84.00	1.52	84.00	1.52
DOYANG	333 M	306 M	314.79	11.80	311.84	7.00

Annexure-II

FREQUENCY ANALYSIS FOR THE MONTH OF : **Feb-12**

Frequency	(Freq.in Hz)	(Time: H:M)	(Date:D.M.Y)
1. Maximum frequency	50.56	06:03	26-Feb-12
2. Minimum frequency	49.10	00:00	01-Feb-12
3. Monthly average	49.90		

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

f < 49.5	49.5 < f < 50.2	f >50.2
3.0%	91.4%	5.7%

Daily Frequency Variation Index :

DATE	FVI	DATE	FVI
1-Feb-12	**0.820**	17-Feb-12	0.590
2-Feb-12	0.820	18-Feb-12	0.530
3-Feb-12	0.760	19-Feb-12	0.430
4-Feb-12	0.680	20-Feb-12	0.460
5-Feb-12	0.480	21-Feb-12	0.480
6-Feb-12	0.730	22-Feb-12	0.480
7-Feb-12	0.790	23-Feb-12	0.620
8-Feb-12	0.720	24-Feb-12	0.500
9-Feb-12	0.770	25-Feb-12	0.370
10-Feb-12	0.690	26-Feb-12	0.340
11-Feb-12	0.560	27-Feb-12	0.680
12-Feb-12	**0.330**	28-Feb-12	0.520
13-Feb-12	0.460	29-Feb-12	0.600
14-Feb-12	0.580		
15-Feb-12	0.430		
16-Feb-12	0.540	**Average FVI**	**0.578**

Annexure-III

Details of Scheduled Bilateral Exchanges within the Region in **Feb-12**

Sl.No.	From	To	Energy (At Seller Injn. Point) (MWH)		Energy (At State Periphery) (MWH)
1	Tripura (Baramura-IV)	Manipur	-3306.000000		-3125.696631
2	Tripura (Baramura-IV)	Mizoram	-3306.000000		-3125.696631
3	Tripura (Baramura-V)	Manipur	-3258.500000		-3081.003881
4	Tripura (Baramura-V)	Mizoram	-3258.500000		-3081.003881
5	TSECL	MeECL (NVVN)	-3221.460000		-3045.420000
6	ASEB	POWERGRID^	172.167950	^ The actual energy consumed by POWERGRID	

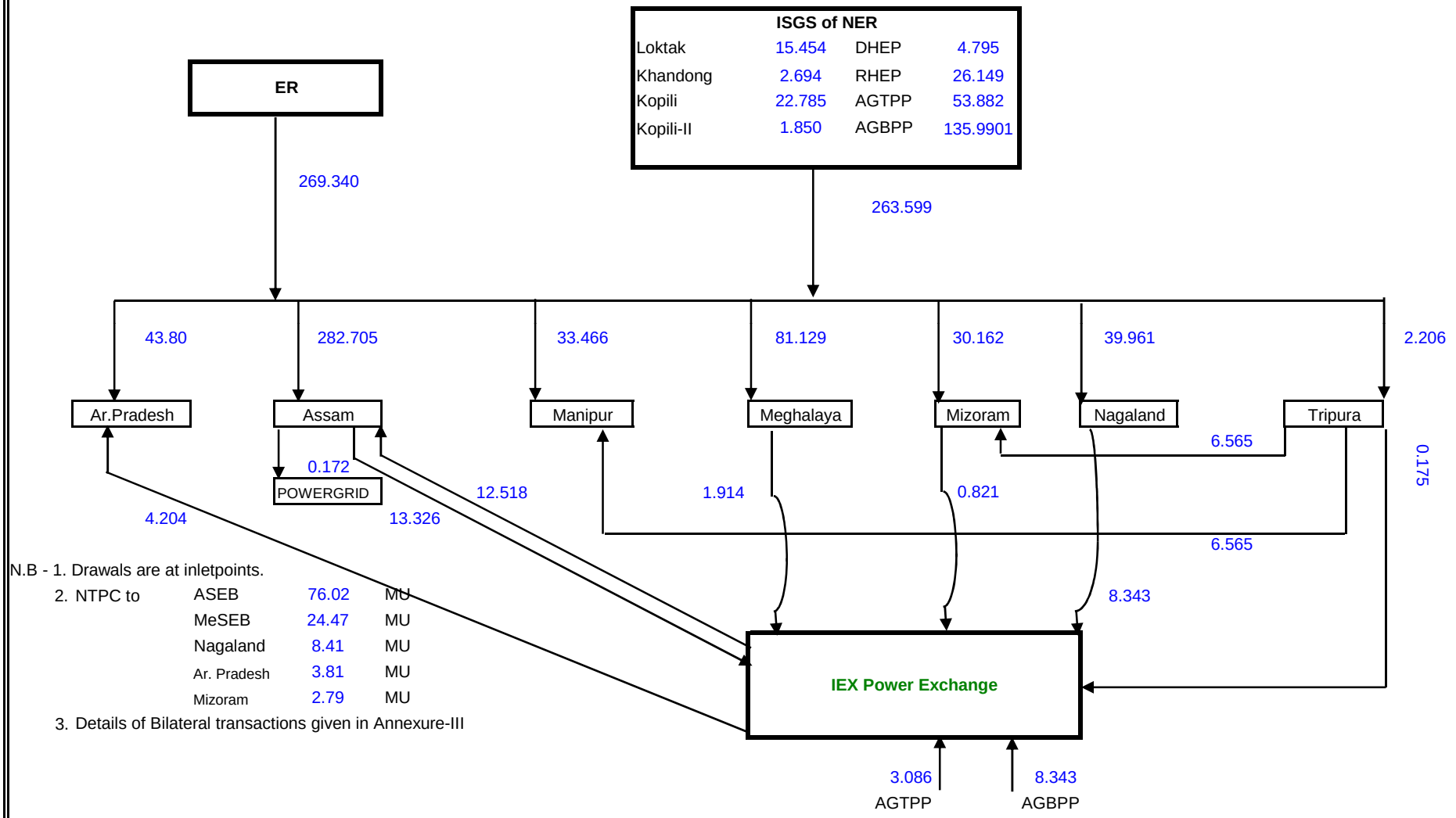
Scheduled Bilateral Exchange with SEBs / Organisations in other Regions

Sl.No.	From	To	Energy (At Seller Periphery) (MWH)	Energy (At NER-ER Periphery) (MWH)	Energy (At Buyer Periphery) (MWH)
1	BALCO	APDCL (PTCL)		38572.500000	37506.010000
2	CSPDCL	APDCL (PTCL)		0.000000	0.000000
3	JPL	APDCL (JPL)		38572.500000	37506.010000
4	JPL	APDCL (KISPL)		0.000000	0.000000
5	WBSEDCL	MeECL (NVVN)		7953.500000	7734.100000
6	Farakka*	Ar. Pradesh	1664.833025	1631.200000	1586.250975
7	Kahalgaon 1*	Ar. Pradesh	758.431700	750.250000	729.718125
8	Talcher*	Ar. Pradesh	1385.874325	1352.525000	1315.205263
9	Farakka*	Assam	17077.084775	16797.075000	16334.100500
10	Kahalgaon 1*	Assam	6471.837850	6359.425000	6185.519113
11	Kahalgaon 2*	Assam	40313.956100	39659.600000	38569.418575
12	Talcher*	Assam	12152.422475	11992.200000	11661.383563
13	Farakka*	MeECL	5196.827425	5102.200000	4961.581163
14	Kahalgaon 1*	MeECL	2336.328850	2291.775000	2229.097163
15	Kahalgaon 2*	MeECL	12747.496000	12530.600000	12186.151850
16	Talcher*	MeECL	4192.431150	4134.025000	4019.967588
17	Farakka*	Nagaland	3755.593200	3689.750000	3588.069050
18	Kahalgaon 1*	Nagaland	1672.414625	1636.275000	1591.552063
19	Talcher*	Nagaland	2981.341075	2939.500000	2858.416313
20	Farakka*	Mizoram	1227.402250	1208.625000	1175.318975
21	Kahalgaon 1*	Mizoram	560.486775	557.700000	542.436213
22	Talcher*	Mizoram	998.420275	999.550000	971.9697875

	Bilateral exchange through IEX Power Exchange (-ve means injection, +ve means drawal)				
23	Ar. Pradesh			4323.500000	4203.970000
24	Assam		-13326.050000	-12960.000000	
25	Assam			12869.600000	12517.580000
26	MeECL		-1914.010000	-1862.300000	
27	MeECL			3421.100000	3324.600000
28	Mizoram		-821.410000	-799.000000	
29	Tripura		-175.010000	-170.000000	
30	NEEPCO (AGBPP)		-8342.580000	-8112.000000	
31	NEEPCO (AGTPP)		-3086.16	-3002.400000	

Annexure-IV

ENERGY EXCHANGE(in MU) IN NER DURING February, 2012



N.B - 1. Drawals are at inletpoints.

2. NTPC to

ASEB	76.02	MU
MeSEB	24.47	MU
Nagaland	8.41	MU
Ar. Pradesh	3.81	MU
Mizoram	2.79	MU

3. Details of Bilateral transactions given in Annexure-III

Exhibit-I

Frequency Duration for February, 2012

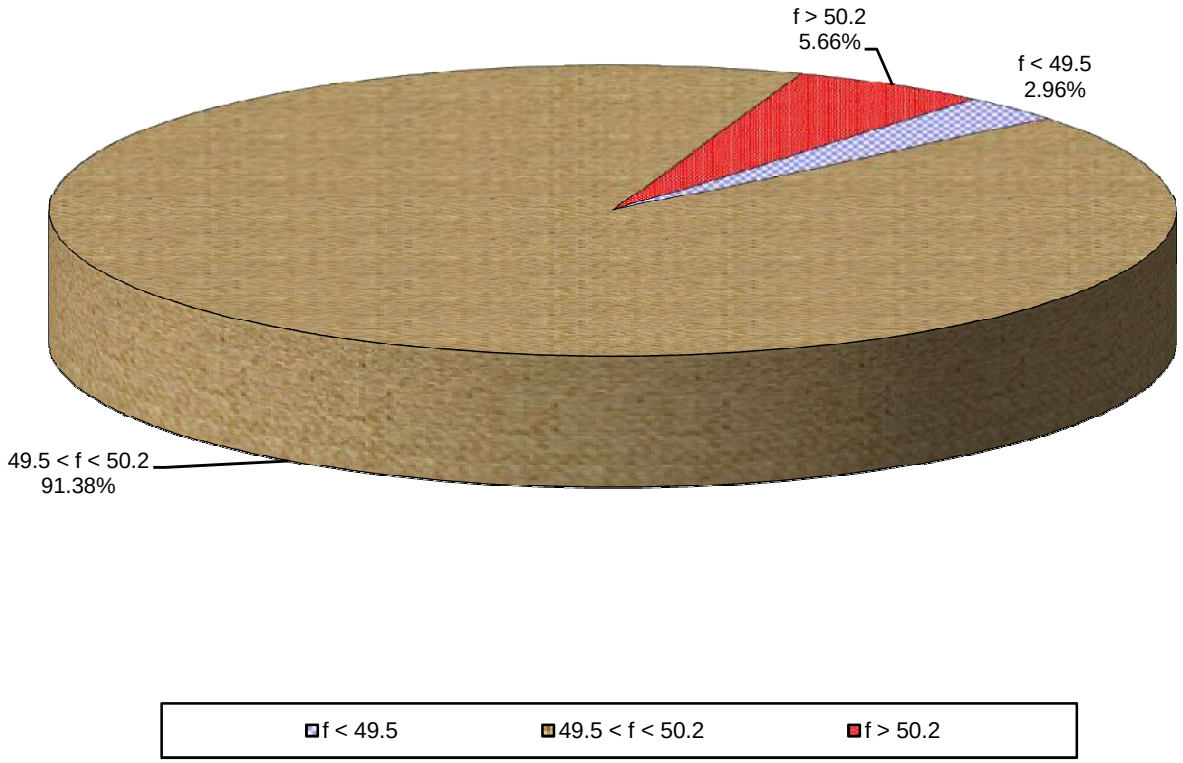


Exhibit-II

FVI Characteristics for February, 2012

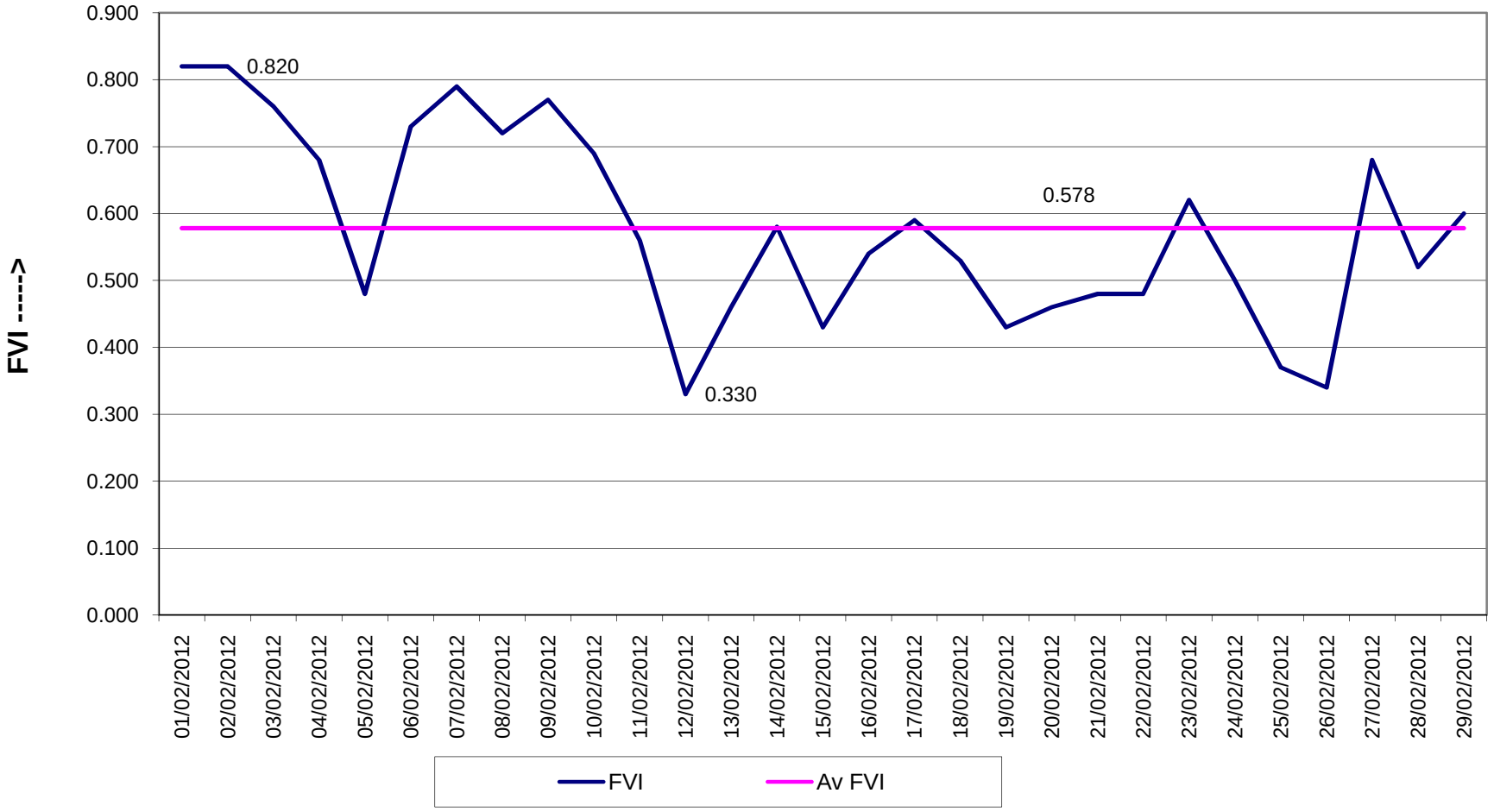


Exhibit-III

Maximum & Minimum Voltage Levels of Important Substations in NER during February, 2012

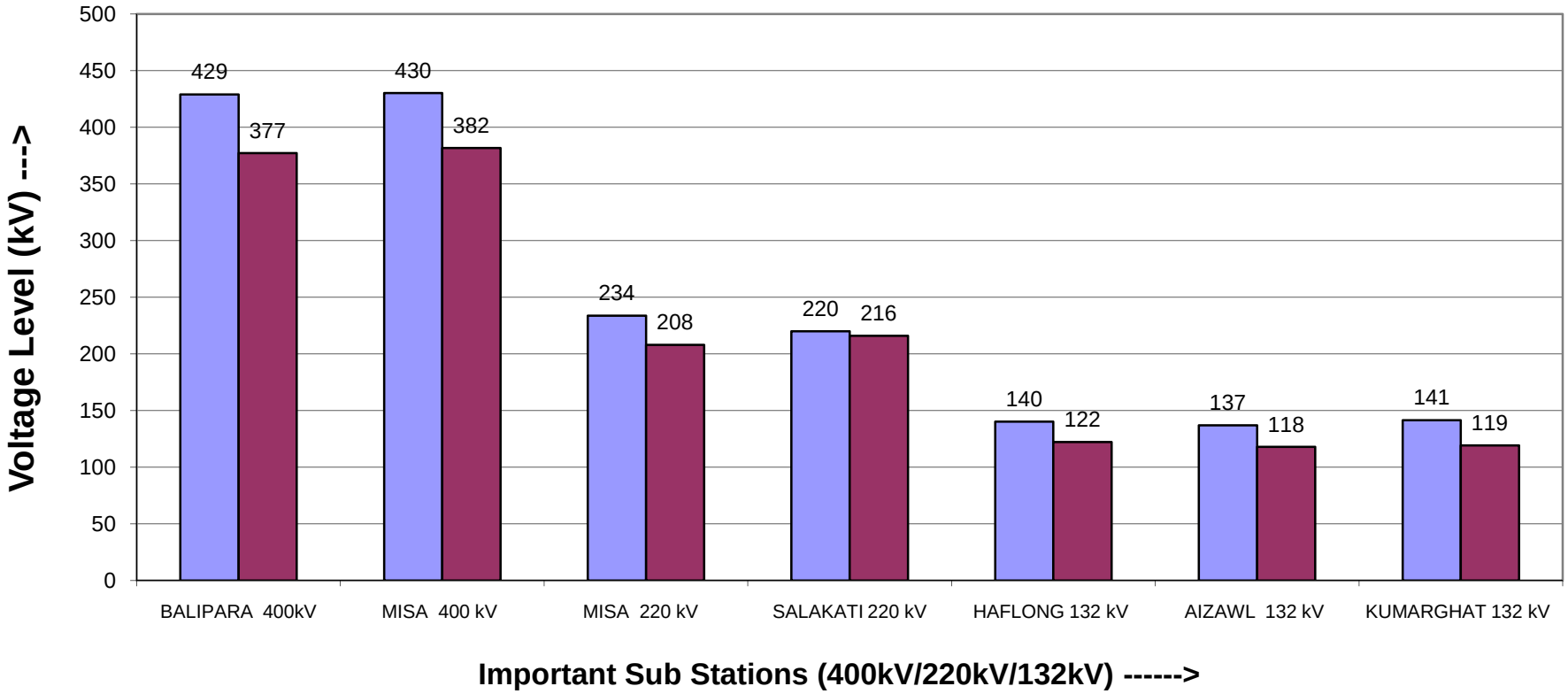


Exhibit-IV

State and Central Sector Generation (MU) in NER in February, 2012

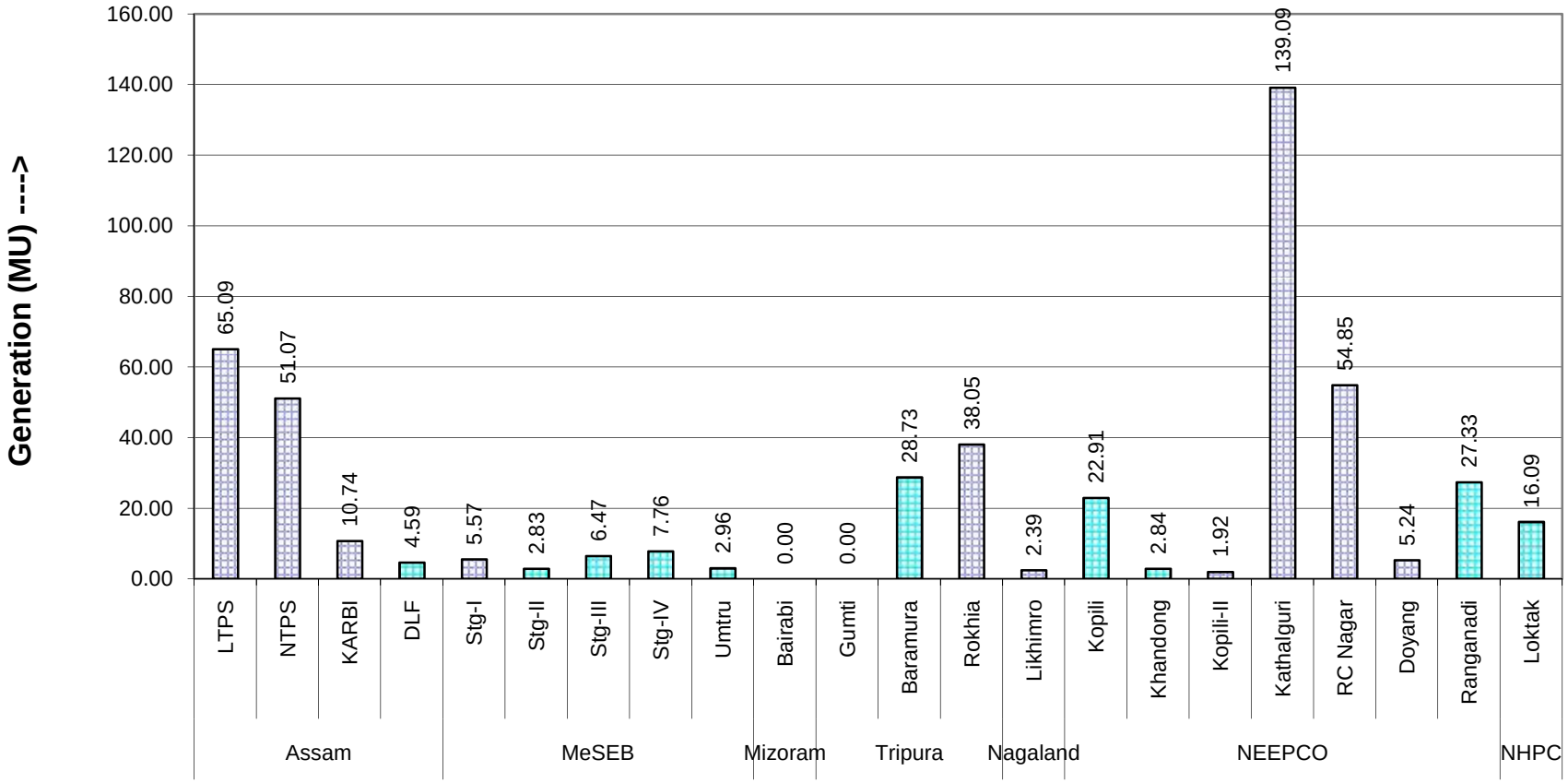


Exhibit-V

NER States Energy Scenario in February, 2012

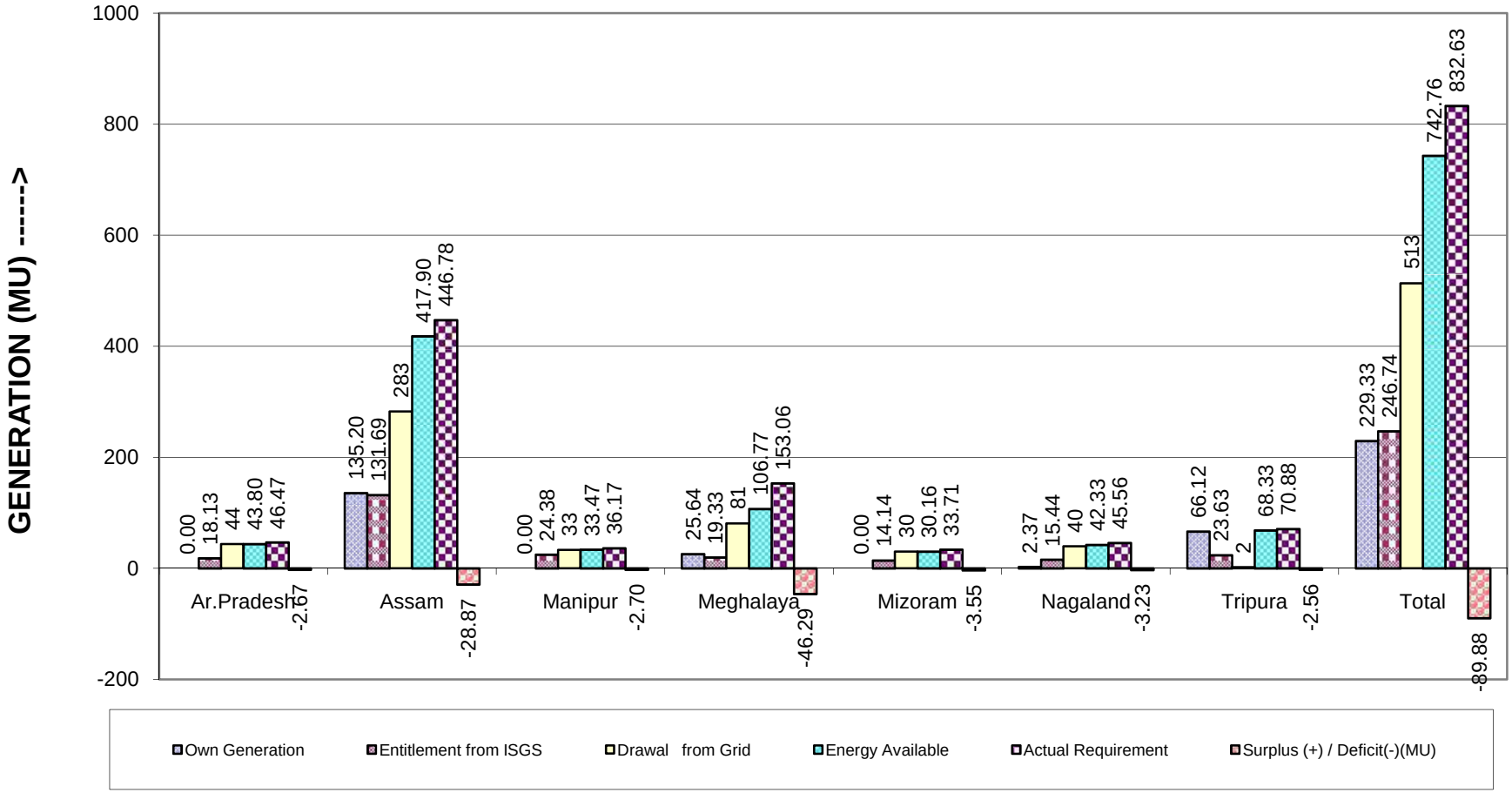


Exhibit-VI

Reservoir Statistics of NER in February, 2012