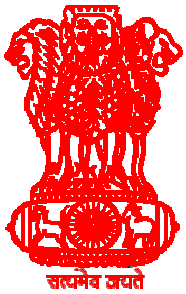


भारत सरकार Government of India
विद्युत मंत्रालय Ministry of Power
केंद्रीय विद्युत प्राधिकरण
Central Electricity Authority

उत्तर पूर्वी क्षेत्रीय विद्युत समिति
North Eastern Regional Power Committee

शिलोंग Shillong

Progress Report

For the month of

March, 2011

CONTENTS

NORTH EASTERN REGIONAL POWER COMMITTEE

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

- The maximum unrestricted demand during the month of March, 2011 was 1670 MW, which was 1665 MW in the month of February, 2011. The peak demand met in NER during the period under review was 1555 MW, which was 1551 MW last month.

- The energy requirement during the month of March, 2011 was 811.09 MU, which was 748.22 MU in the month of February, 2011. The energy availability in NER during the period under review was 758.68 MU, which was 704.43 MU last month.

- The maximum, minimum & average system frequency were 50.64, 49.00 & 49.88 Hz respectively. The maximum, minimum & average FVI were 2.230, 0.190 & 0.650 respectively. The average FVI was more than its previous month's figure. (refer Annex-II).

- Maximum export of power from NER to ER was 445 MW (on 21/03/11 at 24:00 hrs) and that from ER to NER was 513 MW (12/03/11 at 21:00 hrs). Total net energy import during the month was 181.09 MU (from ER).

SALIENT FEATURES OF
NORTH EASTERN REGIONAL GRID FOR MARCH, 2011

1	New unit/ transmission lines/Transformers commissioned during this month		**Nil**	
2	Number of total grid disturbance during this month		**Nil**	
			Mar-11	**Mar-10**
3	**Installed Capacity** of the Region (in MW)(grid)		2054.12	2033.12
4	**Energy Generation in MU (Gross)::**			
	Thermal		431.663	361.485
	Hydel		176.703	153.008
	Diesel / Oil		0.000	0.000
	Total		608.366	514.493
5	**Demand in MW ::**			
	Registered Peak demand		1670.00	1565.00
	Peak demand met		1555.00	1358.00
	Shortage (% age)		-6.89	-13.23
6	**Regional Energy(Gross) in MU ::**			
	Energy requirement		811.09	732.06
	Energy availability		758.68	654.64
	Surplus (+) / Deficit (-) (% age)		-6.46	-10.58
7	**Inter Regional Energy Exchange in MU ::**			
	NER ----> ER		1.877	0.453
	ER ----> NER		182.971	162.892
	Net Import		181.094	-162.44
8	**Frequency profile ::**			
	Average frequency (Hz)		49.88	49.58
	Average Frequency Variation Index		0.650	2.269
9	Load Factor (in %)		61.06	56.22

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

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	10.770	10.662	0.000	0.000	71.720	71.003	52.470	50.896	134.960	132.561
Meghalaya	22.980	22.750	0.000	0.000	0.000	0.000	0.000	0.000	22.980	22.750
Mizoram	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tripura	5.183	5.131	0.000	0.000	67.706	67.029	0.000	0.000	72.889	72.160
Nagaland	1.600	1.584	0.000	0.000	0.000	0.000	0.000	0.000	1.600	1.584
Total (State Sector)									**232.429**	**229.055**
Central Sector :										
NEEPCO :										
Khd+Kop+Kop-II	59.730	59.133	0.000	0.000	0.000	0.000	0.000	0.000	59.730	59.133
K'guri	0	0	0.000	0.000	0	0	184.070	178.548	184.070	178.548
RCNagar	0	0	0	0	55.697	55.140	0	0	55.697	55.140
Doyang	5.920	5.861	0	0	0	0	0	0	5.920	5.861
Ranganadi	44.870	44.421	0	0	0	0	0	0	44.870	44.421
NHPC :										
Loktak	24.310	24.067	0.000	0.000	0.000	0.000	0.000	0.000	24.310	24.067
Total (Central Sector)									374.597	367.170
Total NER	175.363	173.609	0.000	0.000	195.123	193.172	236.540	229.444	**607.026**	**596.225**

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.	47.09	41.30	5.79	12.29%	91	77	14	15.13%
Assam	433.31	417.16	16.15	3.73%	936	912	24	2.53%
Manipur	44.27	38.57	5.70	12.87%	100	95	5	5.22%
M'laya	138.33	124.65	13.68	9.89%	264	241	23	8.88%
Mizoram	34.57	31.27	3.30	9.55%	74	66	8	10.45%
Nagaland	42.41	37.34	5.07	11.96%	100	97	3	2.96%
Tripura	71.11	68.40	2.72	3.82%	194	192	2	1.19%
REGION	811.09	758.68	52.41	6.46%	1670	1555	115	6.87%

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	77.00	23/03/2011	50.12	-0.28	14	90.72
Assam	912.00	26/03/2011	49.94	1.64	22	935.64
Manipur	95.00	08/03/2011	49.92	0.23	5	100.23
Meghalaya	241.00	07/03/2011	50.07	-0.51	24	264.49
Mizoram	66.00	03/03/2011	50.15	-0.30	8	73.70
Nagaland	97.00	14/03/2011	49.67	0.96	2	99.96
Tripura	192.00	06/03/2011	50.12	-0.69	3	194.31
REGION	1555.00	09/03/2011	50.05	-2.33	117	1669.67

** 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	26.686	6.850	41.299	7.764	41.299	0.149	5.64	47.088
Assam	132.561	188.559	135.157	284.598	-39.118	417.159	1.502	14.65	433.311
Manipur	0.000	34.882	0.000	38.569	3.686	38.569	0.139	5.56	44.268
M'laya	22.750	46.056	27.284	101.901	28.561	124.651	0.449	13.23	138.330
Mizoram	0.000	20.103	4.089	31.268	7.077	31.268	0.113	3.19	34.571
Nagaland	1.584	22.192	4.089	35.753	9.473	37.337	0.134	4.94	42.411
Tripura	72.160	32.402	0.000	-3.763	-36.165	68.398	0.246	2.47	71.114
REGION	229.055	370.881	177.468	529.626	-18.723	758.682	2.731	49.68	811.093

*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)	
				Mar-11	Mar-10
	STATE SECTOR : HYDRO				
	ASSAM :: HYDRO				
1	KARBI HEP U - 1	50.00	50.00	7.430	2.918
2	KARBI HEP U - 2	50.00	50.00	3.340	2.585
	TOTAL	100.00		10.770	5.503
	MEGHALAYA :: HYDRO				
1	STAGE - 1	36.00	27.00	3.610	3.335
2	STAGE - 2	18.00	11.50	7.690	5.900
3	STAGE - 3	60.00	30.00	9.600	9.177
4	STAGE - 4	60.00	48.60	1.750	3.690
5	UMTRU	11.20	3.10	0.330	0.078
					0.000
	TOTAL	185.20		22.980	22.180
	NAGALAND :: HYDRO				
6	LIKIMRO - 1				
7	LIKIMRO - 2	24.00	10.00	2.940	2.220
8	LIKIMRO - 3				
	TOTAL	24.00		2.940	2.220
	TRIPURA :: HYDRO				
9	GUMTI - 1	5.00	Gumti Stn. Peak =8 MW	0.000	0.000
10	GUMTI - 2	5.00		2.598	2.027
11	GUMTI - 3	5.00		2.585	2.607
	TOTAL	15.00		5.183	4.634
	TOTAL STATE (HYDRO) :	324.20		41.873	34.537

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)	
				Mar-11	Mar-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		15.104	14.820
5	BARAMURA - 5	21.00		15.072	0.000
6	ROKHIA - 1	8.00	Rokhia Stn. Peak = 57.2MW	0.000	0.000
7	ROKHIA - 2	8.00		0.000	0.000
8	ROKHIA - 3	8.00		2.400	5.287
9	ROKHIA - 4	8.00		4.384	4.736
10	ROKHIA - 5	8.00		0.000	0.000
11	ROKHIA - 6	8.00		0.000	0.000
12	ROKHIA - 7	21.00		15.247	15.908
13	ROKHIA - 8	21.00		15.499	16.170
	TOTAL	148.50		67.706	56.921
	ASSAM :: THERMAL				
1	LTPS - 1	15.00	LTPS Stn. Peak = 102 MW	7.910	8.080
2	LTPS - 2	15.00		8.010	9.640
3	LTPS - 3	15.00		10.950	9.220
4	LTPS - 4	15.00		8.550	8.155
5	LTPS - 5	20.00		14.470	12.835
6	LTPS - 6	20.00		15.370	7.036
7	LTPS - 7	20.00		1.350	12.667
8	NTPS - 1	20.00	NTPS Stn. Peak = 80 MW	13.610	12.310
9	NTPS - 2	21.00		14.860	12.010
10	NTPS - 3	21.00		9.600	9.820
11	NTPS - 4	11.00		6.080	5.070
12	NTPS - 5	22.00		0.000	1.136
13	NTPS - 6	22.00		8.320	6.775
14	DLF	24.50		5.110	5.490
	TOTAL	261.50		124.190	120.244
TOTAL STATE THERMAL/GAS :		432.92		191.896	177.165
TOTAL SC GEN(HY+TH/GAS)		**757.12**		**233.769**	**211.702**

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)	
				Mar-11	Mar-10
	CENTRAL SECTOR : HYDRO				
1	KHANDONG - 1	25.00	25.00	5.180	0.000
2	KHANDONG - 2	25.00	25.00	3.720	0.000
3	KOPILI Stg - II	25.00	25.00	4.100	0.000
4	KOPILI - 1	50.00	0.00	0.000	0.000
5	KOPILI - 2	50.00	50.00	9.600	3.612
6	KOPILI - 3	50.00	50.00	18.030	5.858
7	KOPILI - 4	50.00	50.00	19.100	5.229
8	DOYANG -1	25.00	Doyang Stn. Peak = 65 MW	1.700	1.552
9	DOYANG -2	25.00		2.110	1.403
10	DOYANG -3	25.00		2.110	0.974
11	LOKTAK - 1	35.00	Loktak Stn. Peak = 37 MW	0.000	11.860
12	LOKTAK - 2	35.00		0.000	0.000
13	LOKTAK - 3	35.00		24.310	21.393
14	RANGANADI - 1	135.00	Ranganadi Stn. Peak =406 MW	15.780	22.276
15	RANGANADI - 2	135.00		11.700	21.325
16	RANGANADI - 3	135.00		17.390	22.989
TOTAL HYDRO :		**860.00**		**134.830**	**118.471**
	CENTRAL SECTOR : THERMAL/GAS				
1	KATHALGURI - 1	33.50	Kathalguri Stn. Peak = 277 MW	22.310	14.567
2	KATHALGURI - 2	33.50		21.610	11.157
3	KATHALGURI - 3	33.50		22.950	16.293
4	KATHALGURI - 4	33.50		21.820	18.314
5	KATHALGURI - 5	33.50		21.440	20.833
6	KATHALGURI - 6	33.50		22.820	13.070
7	KATHALGURI - 7	30.00		15.790	8.673
8	KATHALGURI - 8	30.00		17.630	12.863
9	KATHALGURI - 9	30.00		17.700	12.977
10	R.C.NAGAR - 1	21.00	RC Nagar Stn. Peak = 81 MW	14.201	12.393
11	R.C.NAGAR - 2	21.00		13.985	14.427
12	R.C.NAGAR - 3	21.00		13.925	14.305
13	R.C.NAGAR - 4	21.00		13.586	14.448
TOTAL THERMAL/GAS :		375.00		239.767	184.320
TOTAL CS (HY + TH/GAS) :		1235.000		374.597	302.791
TOTAL NER GEN(HY+TH/GAS) :		**1992.120**		**608.366**	**514.493**

Plant Load Factor (PLF) and Voltage Profile : Mar-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	66.610	74.61
2	NTPS*	AEGCL	117.00	52.470	60.28
3	Baramura	Tripura	58.50	30.176	69.33
4	Rokhia	Tripura	90.00	37.530	56.05
5	AGBPP	NEEPCO	291.00	184.070	**85.02**
6	AGTPP	NEEPCO	84.00	55.697	89.12

*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	428	391
2	MISA 400 kV	423	392
3	MISA 220 kV	230	210
4	SALAKATI 220 kV	239	213
5	HAFLONG 132 kV	139	124
6	AIZAWL 132kV	137	114
7	KUMARGHAT 132kV	135	124

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	0.03	93.41	6.56
BALIPARA	0.57	6.29	93.02	0.12

1 **INTER - REGIONAL EXCHANGE :**

All Fig in MU

NER to ER	1.877
ER to NER	182.971
NET IMPORT	181.094

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

3	**MEETING HELD BY NERPC DURING THIS MONTH**	1. 60th OCC Meeting was held on 11.03.11 at Hotel Landmark, Guwahati.
		2. 15th CCM Meeting was held on 03.04.11 at SLDC Conference hall, TSECL, Agartala

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)	Commi'ng Sch Ann.pl	Commi'ng Sch Ant/revd	Total no. of locs .	Stubs com - pleted(nos)	Tower Erected	Stringing complt-ckm	Remarks
	A : Lines under ASEB.								
2	132 kV, S/C Rangia - Sipajhar - Rowta- Depota	147							Work in progress
3	132 kV, S/C Sarusajai - Kahilipara	8							Work in progress
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(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
	G : CTU Lines:								
1	+/- 800kv HVDC Bipole Biswanath Chariyali - Agra	1971	Aug-13	Aug-13	4228	1836	613		Award for converter Stn. is in progr
2	400kV Balipara - Biswanath Chariyali D/C	130	Aug-13	Aug-13	167	128	90	29	Matching with L. Subansiri
3	LILO of 400 kv Ranganadhi Balipara D/C at Biswanat	54	Aug-13	Aug-13	68	39	21		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	Feb-13	142	30			Matching with Gen. of Kameng
6	400kV Balipara- Bongaigaon D/C line	596	Feb-13	Feb-13	838	681	456	102	Matching with Gen. of Kameng
7	400kV Lower Subansari-Biswanath Charrali line-I	334	Feb-13	Feb-13	444	272	159	22	Matching with Gen. Project
8	400kV Lower Subansari-Biswanath Charrali Line-II	340	Feb-13	Feb-13	442	269	144	20	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	6	Dec-11						
11	400kV D/C Pallatana- Surajmani –nagar line	70	Dec-11		87	6			Copmpl. of Suraj-maninagar by TSECL
12	400kV D/C Silchar-Purba Kanchan Bari line	244	Mar-12		325	28			ROW problem
13	400kV D/C Silchar-Melriat(New) line	280	Dec-12		400	65	14		1st Stg Forest clearance awaited
14	400kV D/C Silchar-Imphal(New) line	280	Dec-12						Likely to be delayed
15	220kV D/C Mariani(New)-Mokikchung(PG)	112	Dec-12						Efforts to be made to match U#2 of Palatana GBPP
16	132kV Silchar-Badarpur(PG) SW Interconnecting line	42	Nov-11		72	38	13		To match with U#1 of Palatana
17	132kV D/C Melriat(New)- Melriat (Mizo) Interconnecti	60	Dec-12						Compl. Matching readiness of Melriat S/s by Mizoram
18	132kV D/C Silchar-Srikona (AEGCL) line	6	Dec-11						Engg. In progress
19	132kV D/C Silchar-Hailakandi (AEGCL) line	50	Dec-11						Completion matching with S/S
20	132kV D/C Mokikchung(PG)- Mokikchung(Naga) line	2	Dec-12						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						Completion matching with S/S.
22	132 kV S/C Roing-Tezu line (on D/C)	60	Dec-12						Engg. in progress
23	132 kV S/C Tezu-Namsai line (on D/C)	90	Dec-12						Completion matching with S/S.
24	LILO of 400kV S/C Kathalguri -Misa line at Mariani(N	2	Dec-12						
25	LILO of 132 kV S/C Loktak-Imphal line at Imphal (Nev	60	Dec-12						

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 (N								
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 Mar-11

Organisation	Actual (MU)	Schedule (MU)	UI Energy (MU)	UI Receivable (Rs. in Lakhs)	UI Payable (Rs. in Lakhs)
Arunachal Pradesh	41.299	38.145	3.155	44.895	102.510
ASEB	284.598	327.708	-43.109	1064.945	3.895
Manipur	38.569	37.076	1.493	31.517	62.399
MeSEB	101.901	85.698	16.203	0.000	265.246
Mizoram	31.268	27.029	4.239	0.969	78.337
Nagaland	35.753	25.279	10.474	3.150	195.756
Tripura	-3.763	-1.372	-2.391	95.156	32.267

Entitlement, Schedule, Drawal and UI Charges Mar-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	26.686	26.741	38.145	41.299	3.155	-0.576
ASEB	188.559	188.660	327.708	284.598	-43.109	10.610
Manipur	34.882	34.989	37.076	38.569	1.493	-0.309
MeSEB	46.056	46.982	85.698	101.901	16.203	-2.652
Mizoram	20.103	19.926	27.029	31.268	4.239	-0.774
Nagaland	22.192	22.018	25.279	35.753	10.474	-1.926
Tripura	32.402	31.590	-1.372	-3.763	-2.391	0.629

(Source : UI A/c, NERPC)

Schedule for ISGS's Generation and State's Drawl for the month of Mar-11

States	Schedule From ISGS(MWH)	Bilateral Schedule from Outside NER (MWH)	Total Schedule (MWH)	Ex.PP. Drawal (MWH)	Tr. Energy (MWH)
Arunachal Pradesh	26647.75	7117.48	33765.22	42880.78	42880.78
ASEB	189059.47	140443.65	329503.12	295497.01	329503.12
Manipur	34925.15		34925.15	40045.72	40045.72
MeSEB	46918.96	28350.58	75269.54	105803.44	105803.44
Mizoram	19921.67		19921.67	32465.53	32465.53
Nagaland	22066.19	4248.65	26314.84	37122.21	37122.21
Tripura	31287.52		31287.52	-3906.63	31287.52
Total	370826.72	180160.35	550987.07	549908.07	619108.33

ISGS	Schedule (MWH)	Injection (MWH)
LOKTAK	23467.05	23729.13
KHANDONG	9237.47	9194.50
KOPILI-I	46332.09	46003.61
KOPILI-II	3958.20	3922.84
DHEP	4961.43	4978.29
RHEP	45226.61	45046.80
AGTPP	54353.09	54648.41
AGBPP	183290.79	181290.60
Total	370826.72	368814.18

Source : Provisional REA for the month: Mar-11

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 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:- 09.03.2011

All figures in MW

HRS.	Total ISGS Injection (MW)	STATE SECTOR													ER	Total N.E.R GEN	Total Demand Met	Gross Demand met	Actual Loss	Total Drawal by States
		ASEB			MeSEB			Tripura			Manipur	Mizoram	Nagaland	ArPr						
		GEN	Drawal	Demand Met	GEN	Demand Met	Drawal	GEN	Demand Met	Drawal	DM	DM	DM	DM	IMPORT(+)/ EXPORT(-)					
1	364.63	160	317.03	477.0	13	194.2	181.24	81	50.3	-30.49	25.34	31.18	43.89	47.67	279.41	618.45	869.68	897.84	28.2	336.46
2	363.63	160	293.49	453.5	0	196.3	196.26	81	48.1	-32.68	24.58	28.71	47.14	44.90	270.96	604.45	843.23	875.39	32.2	331.46
3	363.89	160	288.12	448.1	0	199.4	199.39	81	46.5	-34.35	23.55	28.27	46.90	45.38	266.20	604.71	838.06	870.89	32.8	331.06
4	364.28	160	287.86	447.9	0	196.6	196.57	81	45.2	-35.58	21.74	27.48	48.31	43.36	259.03	605.10	830.56	864.12	33.6	330.72
5	365.75	160	305.53	465.5	0	205.5	205.49	81	48.9	-31.93	29.97	29.91	56.56	45.95	317.93	606.57	882.31	924.49	42.2	323.57
6	435.87	160	340.58	500.6	0	196.1	196.15	81	52.7	-28.09	53.87	42.47	66.52	51.43	296.82	676.69	963.74	973.50	9.8	426.11
7	581.13	160	383.14	543.1	61	235.1	174.60	81	64.9	-15.92	54.95	56.29	52.36	63.14	219.79	882.45	1069.88	1102.23	32.4	548.77
8	576.91	160	397.02	557.0	61	200.2	139.55	81	69.4	-11.44	54.03	52.24	49.63	59.06	189.46	878.40	1041.58	1067.85	26.3	550.64
9	459.67	160	384.43	544.4	61	175.7	115.04	81	71.5	-9.27	53.56	40.41	42.88	51.92	240.00	761.17	980.46	1001.16	20.7	438.97
10	406.40	160	358.32	518.3	61	164.8	104.10	81	69.8	-11.06	53.17	37.45	31.29	55.78	241.61	707.97	930.62	949.56	18.9	387.46
11	228.55	160	302.54	462.5	51	149.7	98.39	81	65.7	-15.13	46.60	36.59	42.60	56.91	364.95	520.64	860.60	885.58	25.0	203.57
12	359.17	160	319.34	479.3	37	157.1	119.99	81	66.6	-14.27	49.38	38.30	41.36	54.41	271.24	637.09	886.45	908.32	21.9	337.30
13	354.08	160	323.60	483.6	27	115.4	88.40	81	66.8	-14.04	48.00	37.84	43.22	56.88	258.01	621.90	851.73	879.90	28.2	325.91
14	353.84	160	326.75	486.7	13	143.1	130.11	81	68.5	-12.36	39.27	38.23	46.82	55.29	292.19	607.66	877.92	899.83	21.9	331.92
15	358.86	160	342.90	502.9	0	139.3	139.27	81	74.5	-6.28	47.01	44.45	42.76	55.19	339.20	599.68	906.12	938.86	32.7	326.11
16	356.81	160	338.72	498.7	0	143.8	143.80	81	75.8	-4.99	52.11	53.41	49.04	51.47	314.17	597.63	924.38	911.79	-12.6	369.41
17	590.86	160	385.75	545.8	13	136.9	123.88	81	86.9	6.05	58.51	53.44	53.54	65.53	185.53	844.68	1000.52	1030.18	29.7	561.19
18	661.63	160	656.83	816.8	27	136.9	109.89	81	127.5	46.69	75.45	60.54	63.89	78.05	482.28	929.45	1359.17	1411.70	52.5	609.09
19	776.98	160	705.98	866.0	76	204.0	128.24	81	125.5	44.66	75.38	58.32	70.16	66.90	415.53	1093.51	1466.16	1509.02	42.9	734.12
20	932.02	160	724.46	884.5	76	204.7	128.47	81	128.4	47.60	81.32	59.00	60.36	79.96	289.37	1249.11	1498.24	1538.45	40.2	891.81
21	678.54	160	677.29	837.3	76	205.0	128.75	81	121.7	40.92	83.62	56.13	59.84	71.60	468.56	995.58	1435.17	1464.11	28.9	649.61
22	627.12	160	489.64	649.6	76	198.6	122.34	81	107.2	26.42	90.13	49.28	57.49	65.99	304.67	944.23	1218.40	1248.87	30.5	596.65
23	473.25	160	445.53	605.5	48	178.9	131.22	81	84.3	3.44	78.67	38.40	49.45	51.61	354.03	761.72	1086.78	1115.73	28.9	444.31
24	428.72	160	359.84	519.8	48	222.8	175.16	81	63.8	-16.99	70.32	34.21	43.21	47.04	316.30	717.22	1001.28	1033.50	32.2	396.50
Max	932.02	160	724.46	884.46	76	235.1	205.49	81	128.4	47.60	90.13	60.54	70.16	79.96	482.28	1249.11	1498.24	1538.45	52.5	891.81
Min	228.55	160	287.86	447.86	0	115.4	88.40	81	45.2	-35.58	21.74	27.48	31.29	43.36	185.53	520.64	830.56	864.12	-12.6	203.57

HOURLY DATA ON MINIMUM DEMAND MET DAY

DATE: 21.03.2011

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	IMPORT(+)/ EXPORT(-)					
1	470.27	213	324.5	111.70	0	121.6	121.61	81	-32.76	48.06	32.36	24.78	28.68	36.49	-117.30	763.8	616.4	646.51	30.1	440.19
2	463.15	204	296.7	92.70	0	122.4	122.36	81	-35.04	45.78	22.01	23.93	26.71	35.02	-147.99	747.9	572.5	599.91	27.4	435.72
3	464.20	204	290.8	86.82	0	122.6	122.60	81	-35.81	45.01	21.00	23.28	26.21	33.29	-154.93	749.0	562.2	594.02	31.8	432.36
4	468.85	204	281.4	77.45	0	122.6	122.64	81	-37.27	43.55	19.95	23.85	25.64	32.69	-167.87	753.6	549.7	585.74	36.0	432.84
5	468.46	203	277.5	74.63	0	130.1	130.07	81	-36.23	44.59	31.72	24.91	31.77	33.69	-140.25	752.2	574.2	611.87	37.6	430.84
6	522.34	203	301.1	98.26	0	130.1	130.07	81	-31.24	49.58	48.10	39.92	36.97	34.89	-159.70	806.0	640.6	672.03	31.4	490.96
7	518.31	203	343.9	141.05	47	171.3	123.90	81	-21.62	59.20	59.35	53.28	43.63	43.36	-49.90	849.4	774.0	799.41	25.4	492.89
8	489.52	204	347.0	143.00	47	147.3	99.91	81	-16.84	63.98	55.72	51.41	30.45	39.23	-72.50	821.6	735.0	749.11	14.1	475.41
9	519.21	205	341.2	136.49	24	143.1	119.35	81	-15.65	65.17	53.01	39.48	7.77	31.31	-117.90	828.5	681.1	710.57	29.5	489.71
10	528.61	205	370.4	165.36	37	155.3	118.65	81	-19.72	61.10	57.64	36.10	3.06	34.03	-99.88	851.2	717.7	751.28	33.6	495.04
11	470.44	205	368.1	163.41	24	143.8	119.76	81	-26.53	54.29	49.05	35.21	11.76	41.76	-52.17	780.0	703.9	727.75	23.8	446.62
12	356.48	205	350.8	146.06	24	148.4	124.38	81	-22.75	58.07	51.71	34.23	6.83	43.11	40.22	666.0	693.1	706.18	13.1	343.38
13	362.26	205	400.9	195.83	24	156.6	132.61	81	-22.06	58.76	45.82	36.33	14.58	8.21	69.91	672.1	721.2	742.02	20.8	341.44
14	240.54	160	335.2	175.19	0	131.0	131.02	81	-21.58	59.24	41.24	35.99	13.00	8.18	164.53	481.4	623.9	645.85	22.0	218.54
15	368.26	160	321.0	160.99	0	146.5	146.48	81	-21.87	58.95	42.42	42.71	13.26	8.97	45.35	609.1	633.8	654.39	20.6	347.65
16	358.18	160	304.3	144.26	0	131.8	131.81	81	-15.28	65.54	56.46	53.61	19.69	7.64	72.76	599.0	639.0	671.72	32.7	325.47
17	439.08	160	314.7	154.73	0	117.5	117.45	81	-15.97	64.85	56.64	54.12	32.08	15.36	11.59	679.9	655.2	691.42	36.2	402.88
18	552.78	160	542.3	382.34	0	106.8	106.75	81	34.64	115.46	77.21	62.24	48.14	31.52	192.99	793.6	983.7	986.52	2.9	549.92
19	597.12	160	649.5	489.52	72	186.7	114.25	81	44.16	124.98	88.60	60.00	59.10	46.67	337.39	910.4	1215.6	1247.75	32.1	564.97
20	626.44	205	691.8	487.11	73	190.4	117.59	81	50.25	131.07	84.65	60.87	58.42	55.57	317.00	984.8	1272.8	1301.75	28.9	597.53
21	611.93	209	697.8	488.72	73	194.7	121.77	81	45.50	126.32	81.14	55.79	57.23	52.37	319.43	974.7	1265.3	1294.09	28.8	583.16
22	536.17	212	638.7	426.66	61	161.8	100.99	81	27.71	108.53	85.75	48.05	57.76	43.22	287.07	889.8	1143.8	1176.84	33.0	503.14
23	474.37	212	549.0	336.95	61	185.8	125.00	81	3.13	83.95	79.24	37.63	48.04	42.86	218.69	828.0	1026.5	1046.66	20.2	454.19
24	488.16	209	460.0	250.49	37	194.8	157.73	81	-17.03	63.79	65.39	31.98	42.61	39.21	108.25	815.5	897.7	923.72	26.0	462.17
Max	626.44	213	697.8	489.52	73	194.8	157.73	81	50.25	131.07	88.60	62.24	59.10	55.57	337.39	984.8	1272.8	1301.75	37.6	597.53
Min	240.54	160	277.5	74.63	0	106.8	99.91	81	-37.27	43.55	19.95	23.28	3.06	7.64	-167.87	481.4	549.7	585.74	2.9	218.54

ANNEXURES
&
EXHIBITS

Annexure-I

RESERVOIR PARTICULARS OF THE MONTH : **Mar-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	712.30	10.50	714.00	14.00
KOPILI	609.5 M	592.83 M	602.15	45.00	601.95	43.00
LOKTAK	768.5 M	766.2 M	768.01	117.50	767.46	57.00
BARAPANI	3220 Ft	3150 Ft	3188.09	19.50	3179.18	13.10
GUMTI	93.55 M	83.6 M	87.20	6.65	85.55	3.40
DOYANG	333 M	306 M	315.27	14.00	312.38	9.00

Annexure-II

FREQUENCY ANALYSIS FOR THE MONTH OF : **Mar-11**

Frequency	(Freq.in Hz)	(Time: H:M)	(Date:D.M.Y)
1. Maximum frequency	50.64	18:03	10.03.11
2. Minimum frequency	49.00	22:32	24.03.11
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
3.37	94.21	2.42

Daily Frequency Variation Index :

DATE	FVI	DATE	FVI
01-Mar-11	**0.190**	17-Mar-11	0.900
02-Mar-11	0.480	18-Mar-11	0.420
03-Mar-11	0.280	19-Mar-11	0.240
04-Mar-11	0.300	20-Mar-11	0.240
05-Mar-11	0.400	21-Mar-11	0.220
06-Mar-11	0.400	22-Mar-11	0.540
07-Mar-11	0.400	23-Mar-11	1.040
08-Mar-11	0.260	24-Mar-11	0.830
09-Mar-11	0.600	25-Mar-11	0.550
10-Mar-11	0.560	26-Mar-11	0.790
11-Mar-11	0.380	27-Mar-11	0.220
12-Mar-11	**2.230**	28-Mar-11	0.330
13-Mar-11	2.230	29-Mar-11	0.540
14-Mar-11	1.380	30-Mar-11	0.300
15-Mar-11	1.530	31-Mar-11	0.230
16-Mar-11	1.130	**Average FVI**	**0.650**

Annexure-III

Details of Scheduled Bilateral Exchanges within the Region in **Mar-11**

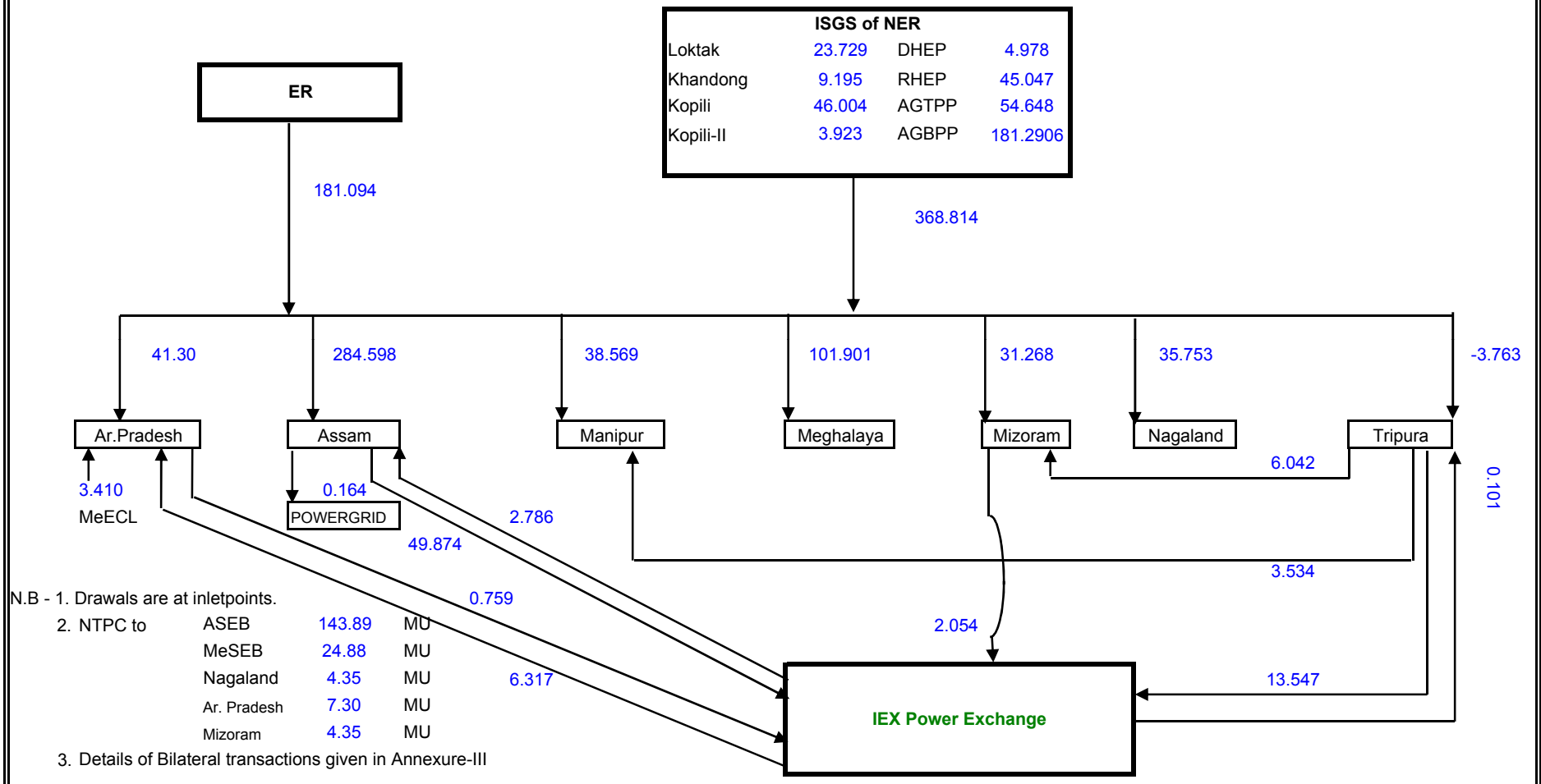
Sl.No.	From	To	Energy (At Seller Injn. Point) (MWH)		Energy (At State Periphery) (MWH)
1	Tripura(Baramura)	Manipur	3534.000000		3401.304000
2	Tripura(Baramura)	Mizoram	6042.000000		5816.964000
4	MeECL	APDCL (NVVN)	3410.000000		3281.960000
6	ASEB	POWERGRID^	164.336150	^ The actual energy consumed by POWERGRID	

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	MIEL (Ralgarh)	APDCL (NVVN)	15624.000000	13941.120000	13419.360000
2	HPPC	APDCL (NVVN)	11160.000000	10510.560000	10114.920000
3	RREL	APDCL (TPTCL)	6264.000000	5592.000000	5383.680000
4	NDPL	MeECL (NVVN)	1240.000000	1150.410000	1107.240000
5	NDPL	MeECL (NVVN)	17360.000000	16105.740000	15501.360000
6	TSECL	WBSEDCL (NVVN)	147.000000	141.840000	
7	TSECL	WBSEDCL (NVVN)	7905.000000	7609.710000	
8	TSECL	WBSEDCL (NVVN)	580.020000	549.212500	
9	TSECL	RDPPC (NVVN)	120.000000	115.800000	
10	Farakka*	Ar. Pradesh	3439.540625	3358.900000	3231.798750
11	Kahalgaon 1*	Ar. Pradesh	1723.774625	1674.750000	1611.818375
12	Talcher*	Ar. Pradesh	2137.206675	2083.825000	2005.883425
13	Farakka*	Assam	51446.510500	50205.900000	48306.312250
14	Kahalgaon 1*	Assam	17865.309375	17445.275000	16789.729400
15	Kahalgaon 2*	Assam	50057.188500	48862.525000	47026.637700
16	Talcher*	Assam	24520.026025	23929.950000	23034.617800
17	Farakka*	MeECL	6224.211250	6073.475000	5843.658775
18	Kahalgaon 1*	MeECL	3135.135750	3060.375000	2945.391050
19	Kahalgaon 2*	MeECL	15828.360000	15451.350000	14870.803875
20	Talcher*	MeECL	3861.146475	3765.375000	3624.476750
21	Farakka*	Nagaland	2051.558875	2009.725000	1933.667925
22	Kahalgaon 1*	Nagaland	1016.075500	997.700000	960.211200
23	Talcher*	Nagaland	1277.408750	1241.225000	1194.782025
24	Farakka*	Mizoram	2051.558875	2009.725000	1933.667925
25	Kahalgaon 1*	Mizoram	1016.075500	997.700000	960.211200
26	Talcher*	Mizoram	1277.408750	1241.225000	1194.782025
	Bilateral exchange through IEX Power Exchange (-ve means injection, +ve means drawal)				
27	Arunachal Pradesh			6563.600000	6316.540000
28	Arunachal Pradesh		-759.090000	-730.000000	
29	Assam		-49873.750000	-48029.920000	
30	Assam			2890.000000	2785.530000
31	Mizoram		-2053.520000	-1976.000000	
32	Tripura		-13547.160000	-13035.000000	
33	Tripura			105.000000	101.150000

Annexure-IV

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



N.B - 1. Drawals are at inletpoints.

2. NTPC to

ASEB	143.89	MU
MeSEB	24.88	MU
Nagaland	4.35	MU
Ar. Pradesh	7.30	MU
Mizoram	4.35	MU

3. Details of Bilateral transactions given in Annexure-III

Exhibit-I

Frequency Duration for March, 2011

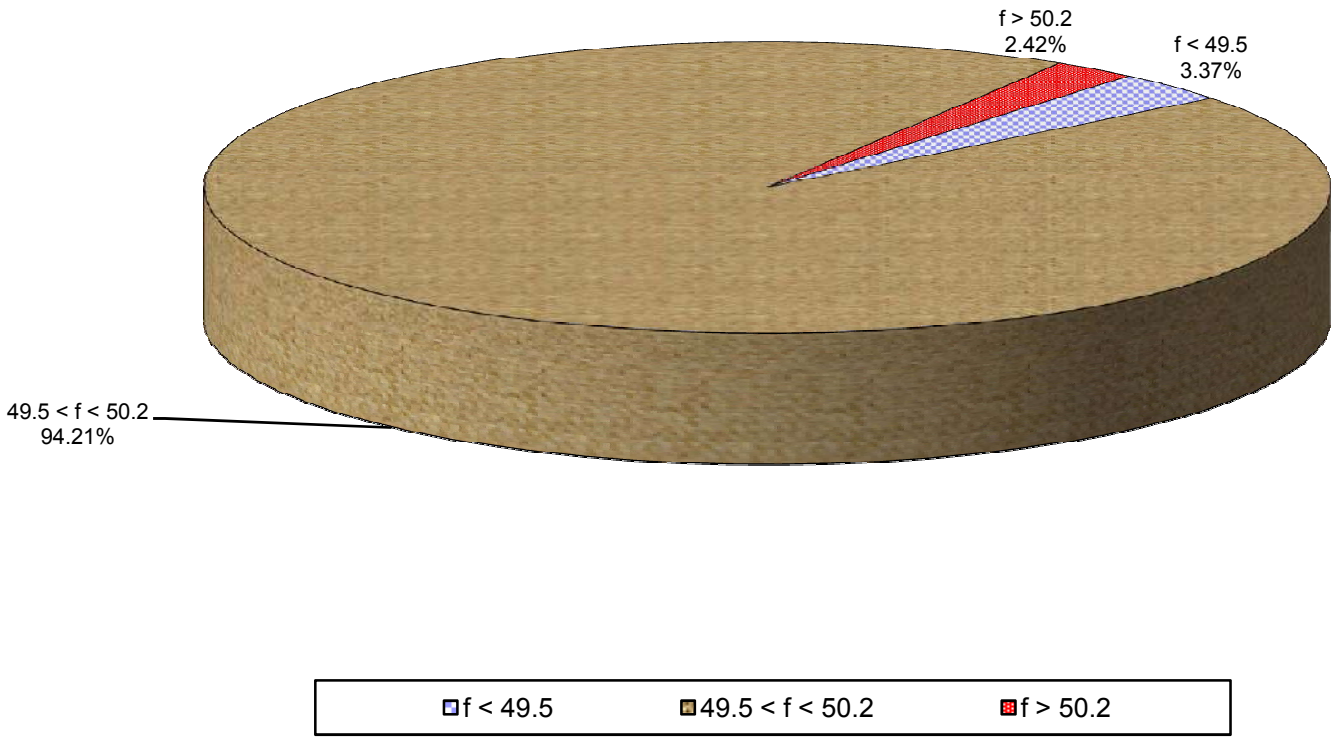


Exhibit-II

FVI Characteristics for March, 2011

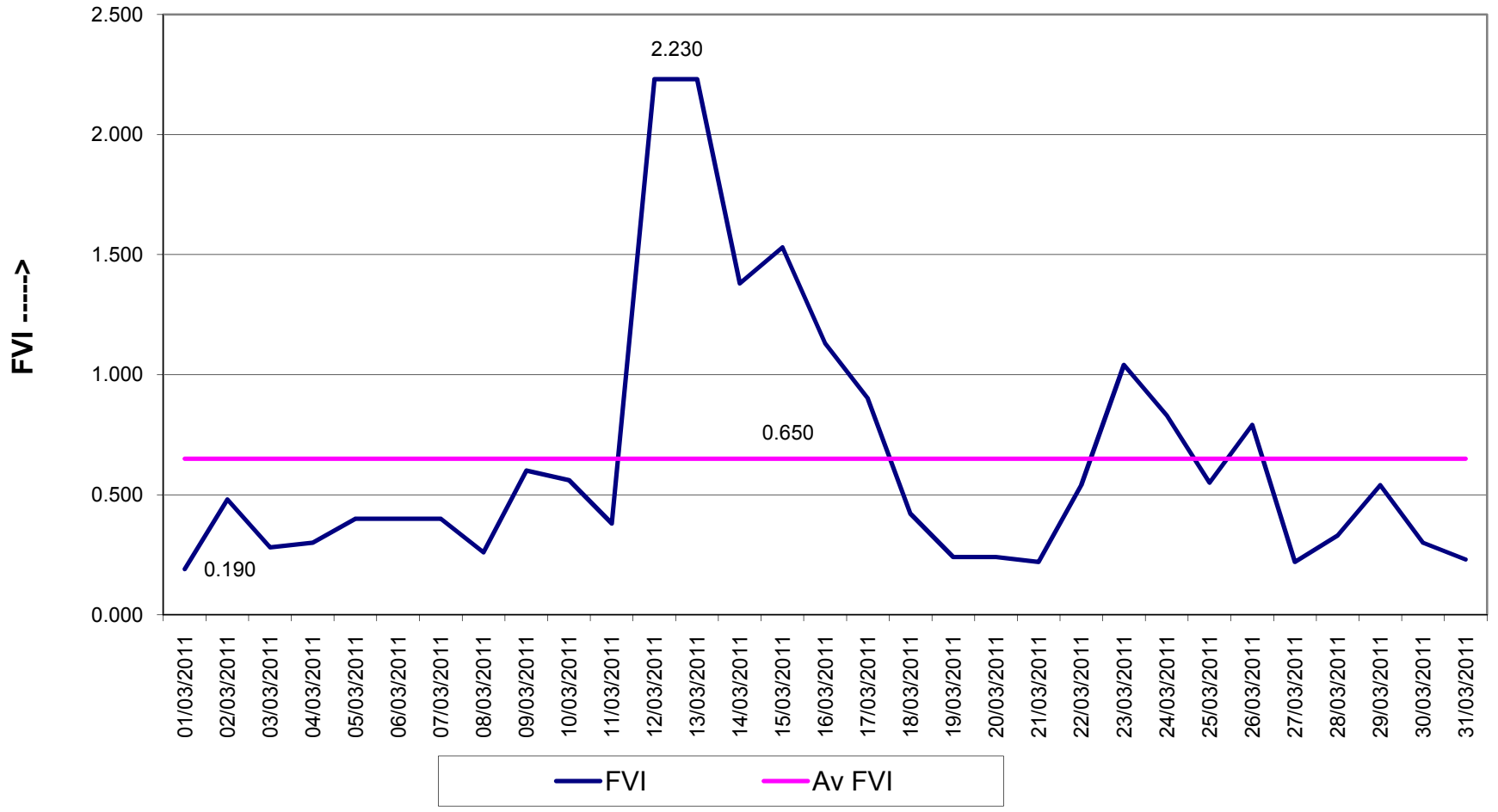


Exhibit-III

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

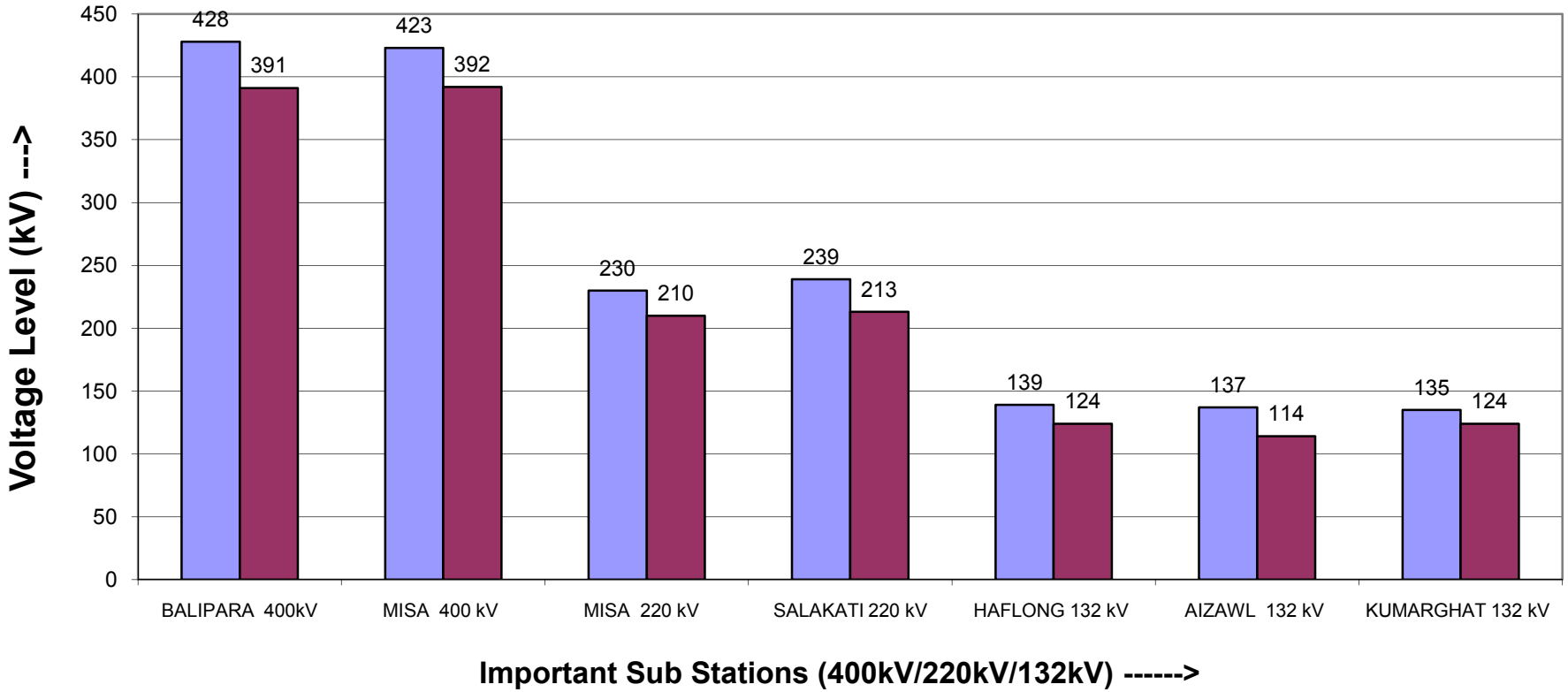


Exhibit-IV

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

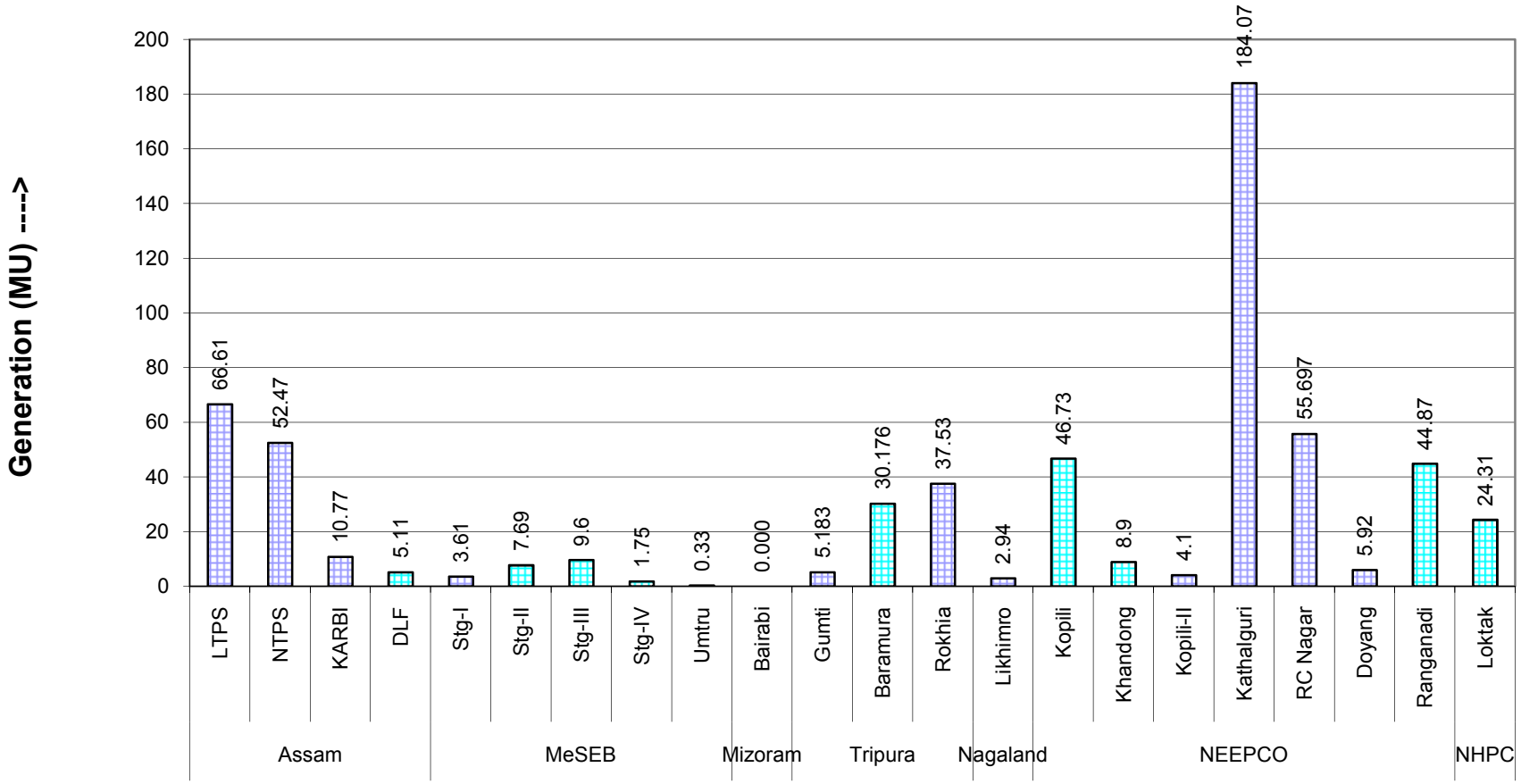


Exhibit-V

NER States Energy Scenario in March, 2011

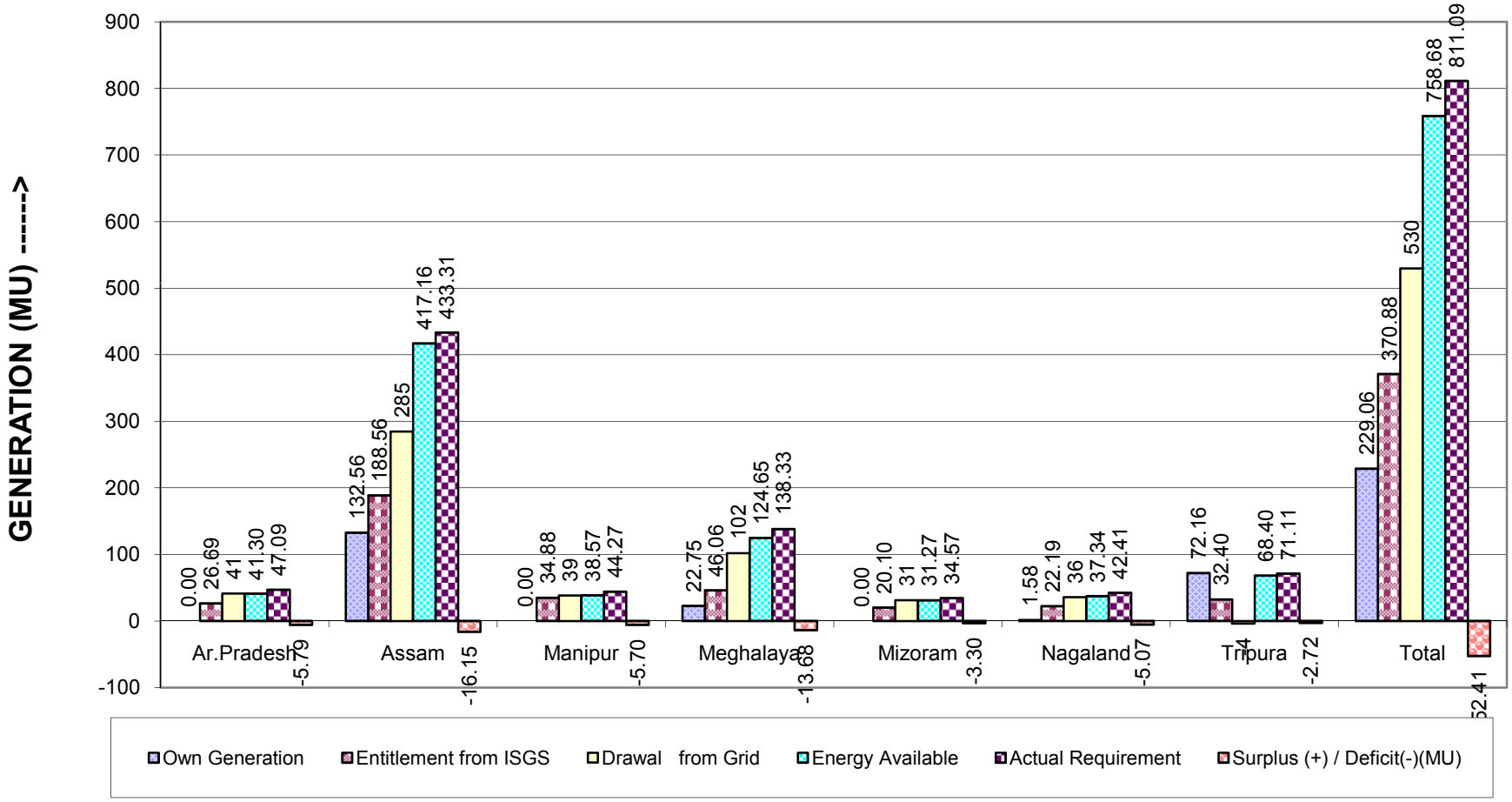


Exhibit-VI

Reservoir Statistics of NER in March, 2011