

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*

**April, 2011**

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## **NORTH EASTERN REGIONAL POWER COMMITTEE**

### **Brief highlights of North Eastern Regional Power System for the month of April, 2011**

- ❖ The maximum unrestricted demand during the month of April, 2011 was 1762 MW, which was 1670 MW in the month of March, 2011. The peak demand met in NER during the period under review was 1581 MW, which was 1555 MW last month.
- ❖ The energy requirement during the month of April, 2011 was 826.31 MU, which was 811.09 MU in the month of March, 2011. The energy availability in NER during the period under review was 748.38 MU, which was 758.68 MU last month.
- ❖ The maximum, minimum & average system frequency were 50.65, 48.80 & 49.79 Hz respectively. The maximum, minimum & average FVI were 1.590, 0.170 & 0.795 respectively. The average FVI was more than its previous month's figure. (refer Annex-II).
- ❖ Maximum export of power from NER to ER was 209 MW (on 03/04/11 at 23:00 hrs) and that from ER to NER was 472 MW (06/04/11 at 21:00 hrs). Total net energy import during the month was 152.53 MU (from ER).

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

1	New unit/ transmission lines/Transformers commissioned during this month	Nil	
2	Number of total grid disturbance during this month	Nil	
		<b>Apr-11</b>	<b>Apr-10</b>
3	<b>Installed Capacity</b> of the Region ( in MW )(grid)	2054.12	2033.12
4	<b>Energy Generation in MU (Gross)::</b>		
	Thermal	216.660	334.595
	Hydel	231.744	182.101
	Diesel / Oil	0.000	0.000
	Total	448.404	516.696
5	<b>Demand in MW ::</b>		
	Registered Peak demand	1762.00	1577.00
	Peak demand met	1581.00	1358.00
	Shortage ( % age )	-10.27	-13.89
6	<b>Regional Energy(Gross) in MU ::</b>		
	Energy requirement	826.31	691.52
	Energy availability	748.83	582.64
	Surplus (+) / Deficit (-) ( % age )	-9.38	-15.75
7	<b>Inter Regional Energy Exchange in MU ::</b>		
	NER ----> ER	0.269	15.320
	ER ----> NER	152.794	97.010
	Net Import	152.525	-81.69
8	<b>Frequency profile ::</b>		
	Average frequency ( Hz )	49.79	49.41
	Average Frequency Variation Index	0.795	5.579
9	Load Factor ( in % )	59.03	51.31

**ENERGY GENERATION IN THE REGION FOR THE MONTH OF Apr-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
<b>State Sector :</b>										
Assam	19.670	19.473	0.000	0.000	66.490	65.825	49.150	47.676	135.310	132.974
Meghalaya	21.330	21.117	0.000	0.000	0.000	0.000	0.000	0.000	21.330	21.117
Mizoram	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tripura	2.984	2.954	0.000	0.000	59.534	58.939	0.000	0.000	62.518	61.893
Nagaland	2.500	2.475	0.000	0.000	0.000	0.000	0.000	0.000	2.500	2.475
Total ( State Sector )									221.658	218.458
<b>Central Sector :</b>										
NEEPCO :										
Khd+Kop+Kop-II	89.650	88.754	0.000	0.000	0.000	0.000	0.000	0.000	89.650	88.754
K'guri	0	0	0.000	0.000	0	0	161.480	156.636	161.480	156.636
RCNagar	0	0	0	0	55.180	54.628	0	0	55.180	54.628
Doyang	5.120	5.069	0	0	0	0	0	0	5.120	5.069
Ranganadi	50.810	50.302	0	0	0	0	0	0	50.810	50.302
NHPC :										
Loktak	39.680	39.283	0.000	0.000	0.000	0.000	0.000	0.000	39.680	39.283
Total ( Central Sector )									401.920	394.671
<b>Total NER</b>	<b>231.744</b>	<b>229.426</b>	<b>0.000</b>	<b>0.000</b>	<b>181.204</b>	<b>179.392</b>	<b>210.630</b>	<b>204.311</b>	<b>623.578</b>	<b>613.129</b>

**REQUIREMENT Vs AVAILABILITY IN THE REGION**

STATES	ENERGY requirement (MU) at 50 Hz				POWER requirement (MW) at 50 Hz			
	<i>Availability &amp; L/S at prevailing freq.</i>				<i>Availability &amp; L/S at prevailing freq.</i>			
	Requirt.	Availy.	Shortfall	%Shortfall	Requirt.	Availy.**	Shortfall	%Shortfall
Ar.Pr.	40.84	36.04	4.80	11.75%	90	77	13	14.38%
Assam	443.19	424.39	18.79	4.24%	969	949	20	2.08%
Manipur	44.91	40.22	4.68	10.43%	102	97	5	4.59%
M'laya	140.56	107.65	32.91	23.41%	250	209	41	16.23%
Mizoram	34.44	30.18	4.26	12.37%	77	65	12	15.95%
Nagaland	48.11	40.60	7.51	15.60%	90	69	21	23.22%
Tripura	74.27	69.75	4.53	6.10%	192	181	11	5.72%
REGION	826.31	748.83	77.48	9.38%	1762	1581	181	10.29%

**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	04/04/2011	50.03	-0.07	13	89.93
Assam	949.00	02/04/2011	50.10	-2.85	23	969.15
Manipur	97.00	26/04/2011	49.77	0.67	4	101.67
Meghalaya	209.00	28/04/2011	49.76	1.50	39	249.50
Mizoram	65.00	07/04/2011	49.83	0.33	12	77.33
Nagaland	69.00	30/04/2011	49.58	0.87	20	89.87
Tripura	181.00	23/04/2011	49.82	0.98	10	191.98
REGION	1581.00	02/04/2011	50.10	-4.74	186	1762.26

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

**ESTIMATION OF ENERGY REQUIREMENT (in MU)**

Average Frequency **49.79** 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	27.941	5.468	36.043	2.634	36.043	0.227	4.57	40.840
Assam	132.974	194.975	105.185	291.420	-8.740	424.394	2.674	16.12	443.188
Manipur	0.000	39.774	0.000	40.222	0.448	40.222	0.253	4.43	44.906
M'laya	21.117	50.779	21.569	86.531	14.183	107.648	0.678	32.23	140.556
Mizoram	0.000	20.732	3.249	30.176	6.194	30.176	0.190	4.07	34.436
Nagaland	2.475	23.362	3.249	38.127	11.515	40.602	0.256	7.25	48.108
Tripura	61.893	33.113	0.000	7.853	-25.260	69.745	0.439	4.09	74.275
REGION	218.458	390.676	138.721	530.372	0.975	748.830	4.718	72.76	826.308

\*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)	
				Apr-11	Apr-10
<b>STATE SECTOR : HYDRO</b>					
<b>ASSAM :: HYDRO</b>					
1	KARBI HEP U - 1	50.00	50.00	19.150	3.210
2	KARBI HEP U - 2	50.00	50.00	0.520	3.440
TOTAL		100.00		19.670	6.650
<b>MEGHALAYA :: HYDRO</b>					
1	STAGE - 1	36.00	27.00	2.930	3.580
2	STAGE - 2	18.00	11.50	7.680	6.090
3	STAGE - 3	60.00	30.00	8.700	8.890
4	STAGE - 4	60.00	48.60	1.660	2.360
5	UMTRU	11.20	3.10	0.360	0.160
TOTAL		185.20		21.330	21.080
<b>NAGALAND :: HYDRO</b>					
6	LIKIMRO - 1				
7	LIKIMRO - 2	24.00	10.00	2.500	1.210
8	LIKIMRO - 3				
TOTAL		24.00		2.500	1.210
<b>TRIPURA :: HYDRO</b>					
9	GUMTI - 1	5.00	Gumti Stn. Peak =8 MW	0.000	0.000
10	GUMTI - 2	5.00		0.178	0.000
11	GUMTI - 3	5.00		2.806	0.000
TOTAL		15.00		2.984	0.000
<b>TOTAL STATE (HYDRO) :</b>		324.20		46.484	28.940

**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)	
				Apr-11	Apr-10
<b>STATE SECTOR : THERMAL/GAS</b>					
<b>MIZORAM :: Thermal</b>					
1	Bairabi	22.92	0.00	0.000	0.000
<b>TRIPURA :: THERMAL</b>					
1	BARAMURA - 1	5.00	Baramura Stn. Peak = 47 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		12.190	13.425
5	BARAMURA - 5	21.00		14.940	0.000
6	ROKHIA - 1	8.00	Rokhia Stn. Peak = 49.9MW	0.000	0.000
7	ROKHIA - 2	8.00		0.000	0.000
8	ROKHIA - 3	8.00		0.000	4.070
9	ROKHIA - 4	8.00		4.050	2.505
10	ROKHIA - 5	8.00		0.000	0.000
11	ROKHIA - 6	8.00		0.000	0.000
12	ROKHIA - 7	21.00		14.305	14.115
13	ROKHIA - 8	21.00		14.049	13.190
	TOTAL	148.50		59.534	47.305
<b>ASSAM :: THERMAL</b>					
1	LTPS - 1	15.00	LTPS Stn. Peak = 105.2 MW	5.230	8.950
2	LTPS - 2	15.00		7.010	5.040
3	LTPS - 3	15.00		9.120	9.510
4	LTPS - 4	15.00		7.650	9.250
5	LTPS - 5	20.00		11.930	9.530
6	LTPS - 6	20.00		8.980	14.090
7	LTPS - 7	20.00		12.500	6.880
8	NTPS - 1	20.00	NTPS Stn. Peak = 83 MW	10.410	10.470
9	NTPS - 2	21.00		14.370	9.990
10	NTPS - 3	21.00		10.450	9.080
11	NTPS - 4	11.00		6.780	5.990
12	NTPS - 5	22.00		0.000	7.910
13	NTPS - 6	22.00		7.140	2.010
14	DLF	24.50			4.070
	TOTAL	261.50		115.640	113.950
TOTAL STATE THERMAL/GAS :		432.92		175.174	161.255
<b>TOTAL SC GEN(HY+TH/GAS)</b>		<b>757.12</b>		<b>221.658</b>	<b>190.195</b>

**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)	
				Apr-11	Apr-10
<b>CENTRAL SECTOR : HYDRO</b>					
1	KHANDONG - 1	25.00	25.00	4.360	0.000
2	KHANDONG - 2	25.00	25.00	5.210	0.000
3	KOPILI Stg - II	25.00	25.00	3.910	0.000
4	KOPILI - 1	50.00	0.00	0.000	0.000
5	KOPILI - 2	50.00	50.00	21.310	2.610
6	KOPILI - 3	50.00	50.00	29.770	6.970
7	KOPILI - 4	50.00	50.00	25.090	4.870
8	DOYANG -1	25.00	Doyang Stn. Peak = 62 MW	1.780	1.190
9	DOYANG -2	25.00		1.410	1.000
10	DOYANG -3	25.00		1.930	1.270
11	LOKTAK - 1	35.00	Loktak Stn. Peak = 99 MW	4.730	16.960
12	LOKTAK - 2	35.00		14.510	0.000
13	LOKTAK - 3	35.00		20.440	21.450
14	RANGANADI - 1	135.00	Ranganadi Stn. Peak = 406 MW	17.160	27.680
15	RANGANADI - 2	135.00		16.570	30.400
16	RANGANADI - 3	135.00		17.080	38.760
<b>TOTAL HYDRO :</b>		<b>860.00</b>		<b>185.260</b>	<b>153.160</b>
<b>CENTRAL SECTOR : THERMAL/GAS</b>					
1	KATHALGURI - 1	33.50	Kathalguri Stn. Peak = 267 MW	21.750	17.620
2	KATHALGURI - 2	33.50		21.700	15.070
3	KATHALGURI - 3	33.50		18.490	13.810
4	KATHALGURI - 4	33.50		16.340	14.550
5	KATHALGURI - 5	33.50		21.210	12.240
6	KATHALGURI - 6	33.50		21.760	17.410
7	KATHALGURI - 7	30.00		15.370	12.080
8	KATHALGURI - 8	30.00		8.150	6.600
9	KATHALGURI - 9	30.00		16.710	10.430
10	R.C.NAGAR - 1	21.00	RC Nagar Stn. Peak = 81 MW	14.350	13.610
11	R.C.NAGAR - 2	21.00		13.690	13.320
12	R.C.NAGAR - 3	21.00		13.520	13.130
13	R.C.NAGAR - 4	21.00		13.620	13.470
<b>TOTAL THERMAL/GAS :</b>		<b>375.00</b>		<b>216.660</b>	<b>173.340</b>
<b>TOTAL CS ( HY + TH/GAS ) :</b>		<b>1235.000</b>		<b>401.920</b>	<b>326.500</b>
<b>TOTAL NER GEN(HY+TH/GAS) :</b>		<b>1992.120</b>		<b>623.578</b>	<b>516.695</b>

**Plant Load Factor (PLF) and Voltage Profile :**

Apr-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	62.420	72.25
2	NTPS*	AEGCL	117.00	49.150	58.35
3	Baramura	Tripura	58.50	27.130	64.41
4	Rokhia	Tripura	90.00	32.404	50.01
5	AGBPP	NEEPCO	291.00	161.480	77.07
6	AGTPP	NEEPCO	84.00	55.180	91.24

\*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	427	393
2	MISA 400 kV	424	395
3	MISA 220 kV	230	215
4	SALAKATI 220 kV	239	213
5	HAFLONG 132 kV	138	125
6	AIZAWL 132kV	137	112
7	KUMARGHAT 132kV	135	126

**Voltage Range in kV as percentage of time for the block**

SUB-STATION	kV < 360	360<kV<380	380<kV<420	kV>420
MISA	0.02	0.00	66.08	33.90
BALIPARA	0.00	2.08	97.52	0.40

1 **INTER - REGIONAL EXCHANGE :**

All Fig in MU

NER to ER	0.269
ER to NER	152.794
NET IMPORT	152.525

2 **Major Grid Disturbances during this month**

Nil

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

1. 61st OCC Meeting was held on 08.04.11 at Hotel Rajmahal, Guwahati.

**PROGRESS OF GENERATION PROJECTS IN NER**

Name of the Generation Scheme	No. of Units	Capacity (MW)	Commissioning Schedule	REMARKS
<b>[A] NEEPCO</b>				
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>[B] NHPC</b>				
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	
<b>[C] NTPC</b>				
a). Bongaigaon TPS	3	3X250	2012	Activities in progress
<b>[D] JV PROJECT</b>				
a). Palatana CCPP	2	2X323.3	2012	Activities in progress
<b>[E] ASSAM</b>				
(a) Lakwa WHRP		37.2	2012	Activities in progress
(b) Namrup CCPP	2	2X40	2012	
<b>[F] MIZORAM</b>				
(a) Tuivai Hydel Project	2	51	2012	Activities in progress
(b) Bairabi Dam Project	2	2 X 40	2012	Activities in progress
<b>(G) MeSEB</b>				
(a) Myntdu - Leishka HEP	2	3x42	2011	Activities in progress
(b) New Umtru HEP	2	2X20	2013	Activities in progress

<b>PROGRESS OF TRANSMISSION LINES IN NE REGION</b>									
	Name of the line	Length	Comm'n'g Sch		Total no.	Stubs com	Tower	Stringing	Remarks
		ckt kms	Ann.pl	Ant/revd	of locs .	pleted(nos)	Erected	complt-ckm	
<b>A : Lines under ASEB.</b>									
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
<b>D : Lines under Meghalaya :</b>									
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		2012					Work in progress
<b>E : Lines under Mizoram :</b>									
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
<b>G : CTU Lines:</b>									
1	+/- 800kv HVDC Bipole Biswanath Chariyali - Agra	1971	Aug-13	Aug-13	4228	1836	613		Award for converter Stn. is in prog
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 Biswanath	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		1 <sup>st</sup> 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 (N	60	Dec-12						

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					
<b>H : Lines under Arunachal Pradesh</b>								
<b>i) Transmission Lines Plan works completed &amp; on going</b>								
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
<b>ii) Proposed for XIth Five Years Plan (State)</b>								
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
<b>iii) Proposed for XIth Five Years Plan (NEC)</b>								
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
<b>iv) Proposed for XIth Five Years Plan (NEC)</b>								
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****Apr-11**

Organisation	Actual (MU)	Schedule (MU)	UI Energy (MU)	UI Receivable (Rs. in Lakhs)	UI Payable (Rs. in Lakhs)
Arunachal Pradesh	36.043	34.224	1.820	46.671	70.778
ASEB	291.420	304.553	-13.133	702.156	212.844
Manipur	40.222	42.483	-2.261	90.562	24.774
MeSEB	86.531	76.496	10.035	28.757	262.201
Mizoram	30.176	26.718	3.458	2.924	73.544
Nagaland	38.127	25.931	12.196	0.000	270.759
Tripura	7.853	9.778	-1.926	152.524	28.176

**Entitlement, Schedule, Drawal and UI Charges****Apr-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	27.941	28.038	34.224	36.043	1.820	-0.241
ASEB	194.975	194.522	304.553	291.420	-13.133	4.893
Manipur	39.774	39.841	42.483	40.222	-2.261	0.658
MeSEB	50.779	50.841	76.496	86.531	10.035	-2.334
Mizoram	20.732	20.734	26.718	30.176	3.458	-0.706
Nagaland	23.362	23.307	25.931	38.127	12.196	-2.708
Tripura	33.113	33.431	9.778	7.853	-1.926	1.243

( Source : UI A/c, NERPC )

**Schedule for ISGS's Generation and State's Draw for the month of**

**Apr-11**

States	Schedule From ISGS(MWH)	Bilateral Schedule from Outside NER ( MWH )	Total Schedule ( MWH )	Ex.PP. Drawal ( MWH )	Tr. Energy ( MWH )
Arunachal Pradesh	28175.63	5668.88	33844.51	37212.52	37212.52
ASEB	196616.18	109052.95	305669.13	300874.65	305669.13
Manipur	40031.17		40031.17	41527.07	41527.07
MeSEB	51345.08	22363.03	73708.10	89338.33	89338.33
Mizoram	20882.19		20882.19	31155.12	31155.12
Nagaland	23568.42	3368.55	26936.97	39363.90	39363.90
Tripura	33312.47		33312.47	8107.42	33312.47
<b>Total</b>	<b>393931.14</b>	<b>140453.40</b>	<b>534384.54</b>	<b>547579.01</b>	<b>577578.54</b>

ISGS	Schedule ( MWH )	Injection ( MWH )
LOKTAK	39060.52	39432.33
KHANDONG	9658.81	9728.14
KOPILI-I	74994.90	75151.23
KOPILI-II	3774.60	3804.39
DHEP	4764.30	4749.04
RHEP	49028.11	49842.50
AGTPP	53764.28	54074.09
AGBPP	158885.63	158272.38
<b>Total</b>	<b>393931.14</b>	<b>395054.10</b>

Source : Provisional REA for the month: **Apr-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	5.191	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	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	233.59 *	*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 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	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	
<b>Max</b>	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	
<b>Min</b>	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						
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
<b>Max</b>	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
<b>Min</b>	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*

RESERVOIR PARTICULARS OF THE MONTH :

Apr-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	713.70	12.00	712.80	11.00
KOPILI	609.5 M	592.83 M	601.97	43.50	598.65	23.50
LOKTAK	768.5 M	766.2 M	767.47	58.00	766.55	14.00
BARAPANI	3220 Ft	3150 Ft	3178.82	12.95	3173.18	10.15
GUMTI	93.55 M	83.6 M	85.50	3.36	84.31	1.93
DOYANG	333 M	306 M	312.26	8.70	308.90	4.00

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

Frequency	( Freq.in Hz )	( Time: H:M )	( Date:D.M.Y )
1. Maximum frequency	50.65	17:34	20.04.11
2. Minimum frequency	48.80	23:06	23:04
3. Monthly average	49.79		

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

f < 49.5	49.5 < f < 50.2	f > 50.2
7.18	91.52	1.30

**Daily Frequency Variation Index :**

DATE	FVI	DATE	FVI
01-Apr-11	0.600	17-Apr-11	0.270
02-Apr-11	0.760	18-Apr-11	0.330
03-Apr-11	0.170	19-Apr-11	0.600
04-Apr-11	0.400	20-Apr-11	0.710
05-Apr-11	0.850	21-Apr-11	0.880
06-Apr-11	0.850	22-Apr-11	0.950
07-Apr-11	1.040	23-Apr-11	0.880
08-Apr-11	1.340	24-Apr-11	0.450
09-Apr-11	0.920	25-Apr-11	0.440
10-Apr-11	0.370	26-Apr-11	0.730
11-Apr-11	1.350	27-Apr-11	1.590
12-Apr-11	1.240	28-Apr-11	0.970
13-Apr-11	0.690	29-Apr-11	0.750
14-Apr-11	0.860	30-Apr-11	1.420
15-Apr-11	0.670		
16-Apr-11	0.770	<b>Average FVI</b>	<b>0.795</b>

**Annexure-III**

**Details of Scheduled Bilateral Exchanges within the Region in**

**Apr-11**

Sl.No.	From	To	Energy ( At Seller Injn. Point) (MWH)		Energy ( At State Periphery) (MWH)
1	Tripura(Baramura-IV)	Manipur	2892.750000		2796.391500
2	Tripura(Baramura-IV)	Mizoram	2892.750000		2796.391500
3	Tripura(Baramura-V)	Manipur	1026.000000		994.194000
4	Tripura(Baramura-V)	Mizoram	2964.000000		2857.980000
5	ASEB	POWERGRID^	122.137200	^ The actual energy consumed by POWERGRID	

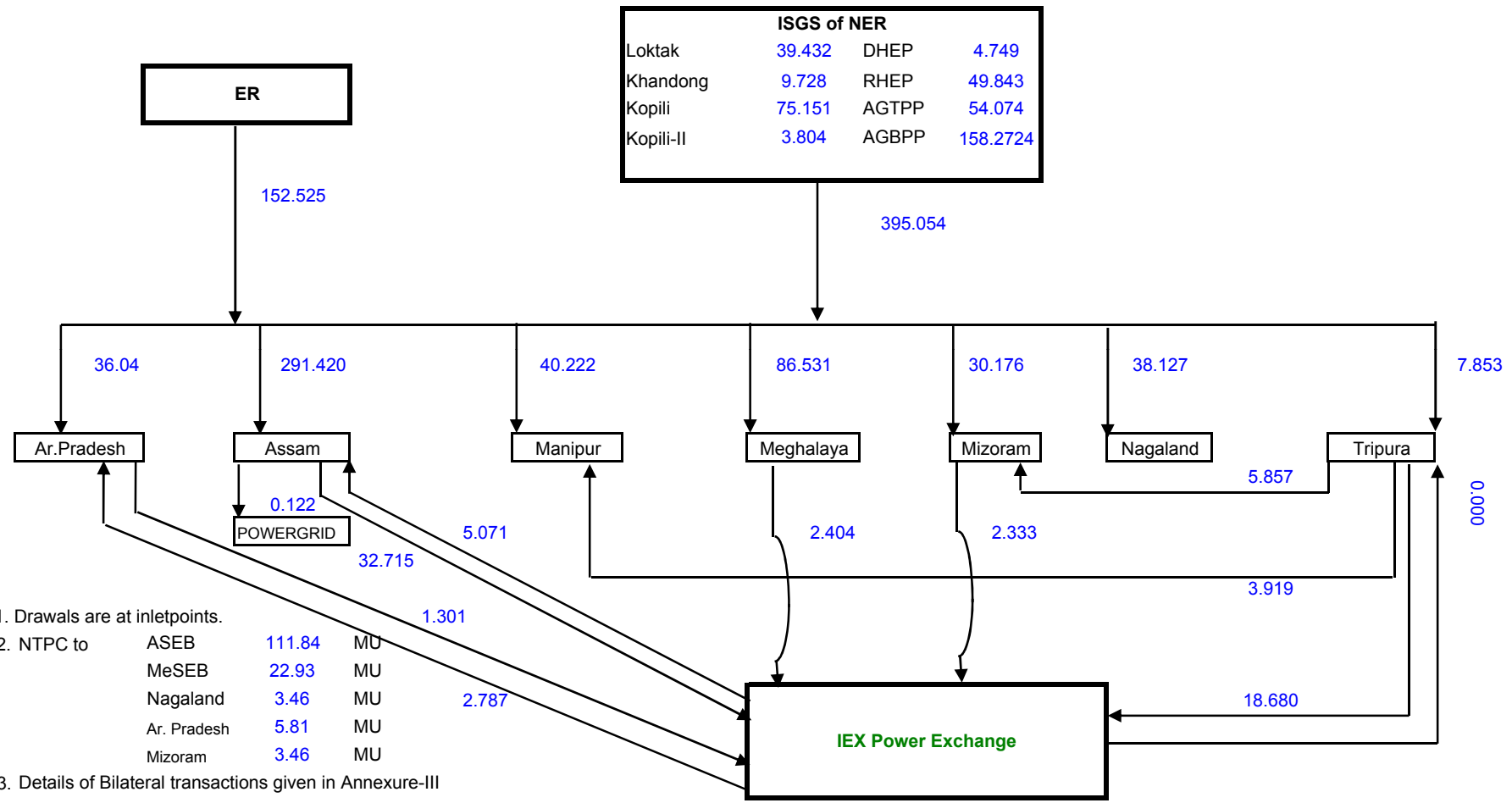
**Scheduled Bilateral Exchange with SEBs / Organisations in other Regions**

Sl.No.	From	To	Energy ( At Seller Periphery) (MWH)	Energy ( At NER-ER Periphery) (MWH)	Energy ( At Buyer Periphery) (MWH)
1	AP	SIA	7.000000	6.800000	
2	STERLITE	APDCL (TPTCL)	8400.000000	8192.640000	7902.540000
3	STERLITE	APDCL (TPTCL)	25140.000000	24519.540000	23651.950000
4	APL	APDCL (TPTCL)	1800.000000	1618.200000	1561.800000
5	APL	APDCL (TPTCL)	5400.000000	4854.600000	4685.400000
6	NDPL	MeECL (NVVN)	12260.640000	11453.190000	11049.150000
7	MeECL	WBSEDCL (NVVN)	3300.000000	3183.500000	
8	J&K	TSECL (NVVN)	3780.000000	3584.760000	3458.400000
9	J&K	TSECL (NVVN)	9884.700000	9376.270000	9045.150000
10	TSECL	MSEDCL (NVVN)	6720.000000	6484.800000	
11	Farakka*	Ar. Pradesh	2484.073775	2431.200000	2345.947125
12	Kahalgaon 1*	Ar. Pradesh	1260.520500	1231.900000	1187.161350
13	Talcher*	Ar. Pradesh	2062.257075	2005.775000	1935.183200
14	Farakka*	Assam	36529.933850	35620.000000	34369.322425
15	Kahalgaon 1*	Assam	12790.215750	12470.350000	12015.481825
16	Kahalgaon 2*	Assam	39244.980500	38261.800000	36900.204925
17	Talcher*	Assam	23275.898925	22700.800000	21899.788225
18	Farakka*	MeECL	4491.971425	4377.400000	4223.902525
19	Kahalgaon 1*	MeECL	2292.340500	2239.600000	2158.097850
20	Kahalgaon 2*	MeECL	12409.480000	12103.325000	11672.636400
21	Talcher*	MeECL	3731.491275	3642.700000	3514.425800
22	Farakka*	Nagaland	1482.998800	1446.175000	1395.449450
23	Kahalgaon 1*	Nagaland	743.156250	726.950000	700.552925
24	Talcher*	Nagaland	1230.218350	1195.425000	1153.388950
25	Farakka*	Mizoram	1482.998800	1446.175000	1395.449450
26	Kahalgaon 1*	Mizoram	743.156250	726.950000	700.552925
27	Talcher*	Mizoram	1230.218350	1195.425000	1153.388950

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

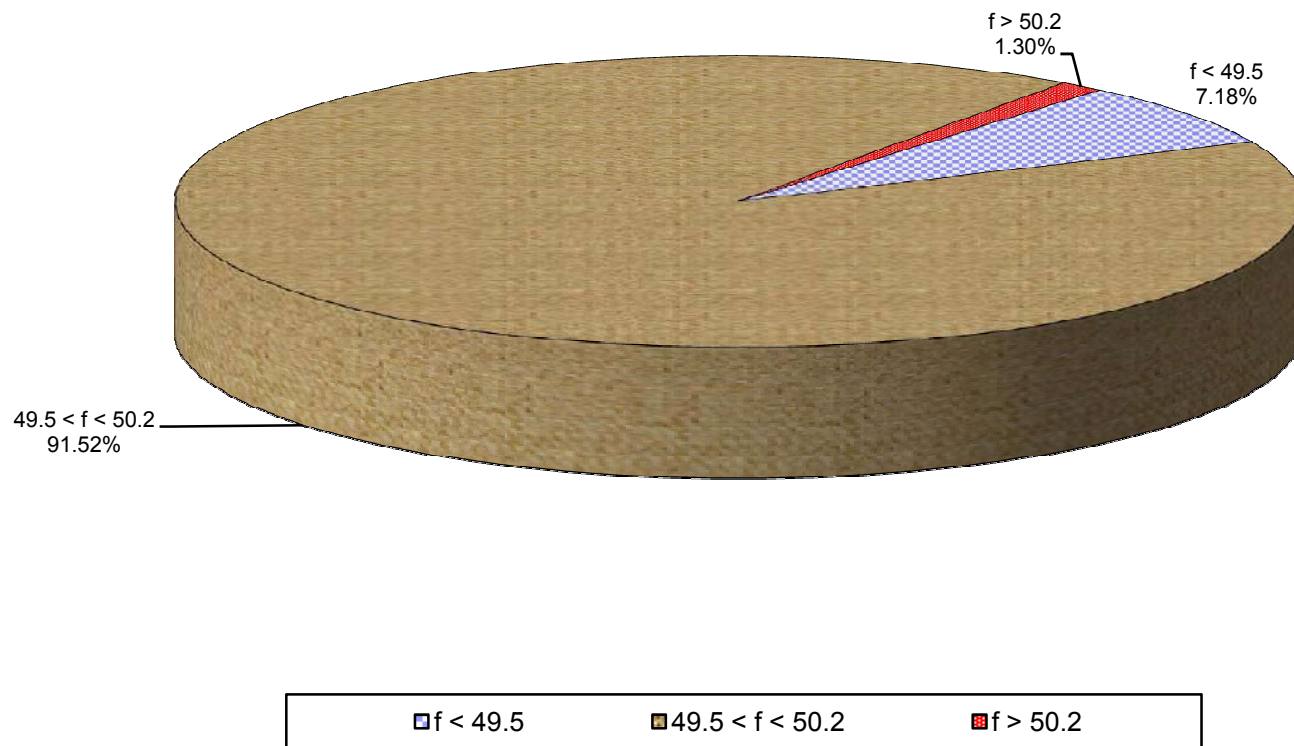
28	Arunachal Pradesh		-1300.830000	-1257.000000	
29	Arunachal Pradesh			2886.100000	2787.410000
30	Assam		-32715.480000	-31530.000000	
31	Assam			5260.000000	5071.300000
32	MeECL		-2404.110000	-2330.090000	
33	Mizoram		-2332.910000	-2250.000000	
34	Tripura		-18680.010000	-17990.000000	

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

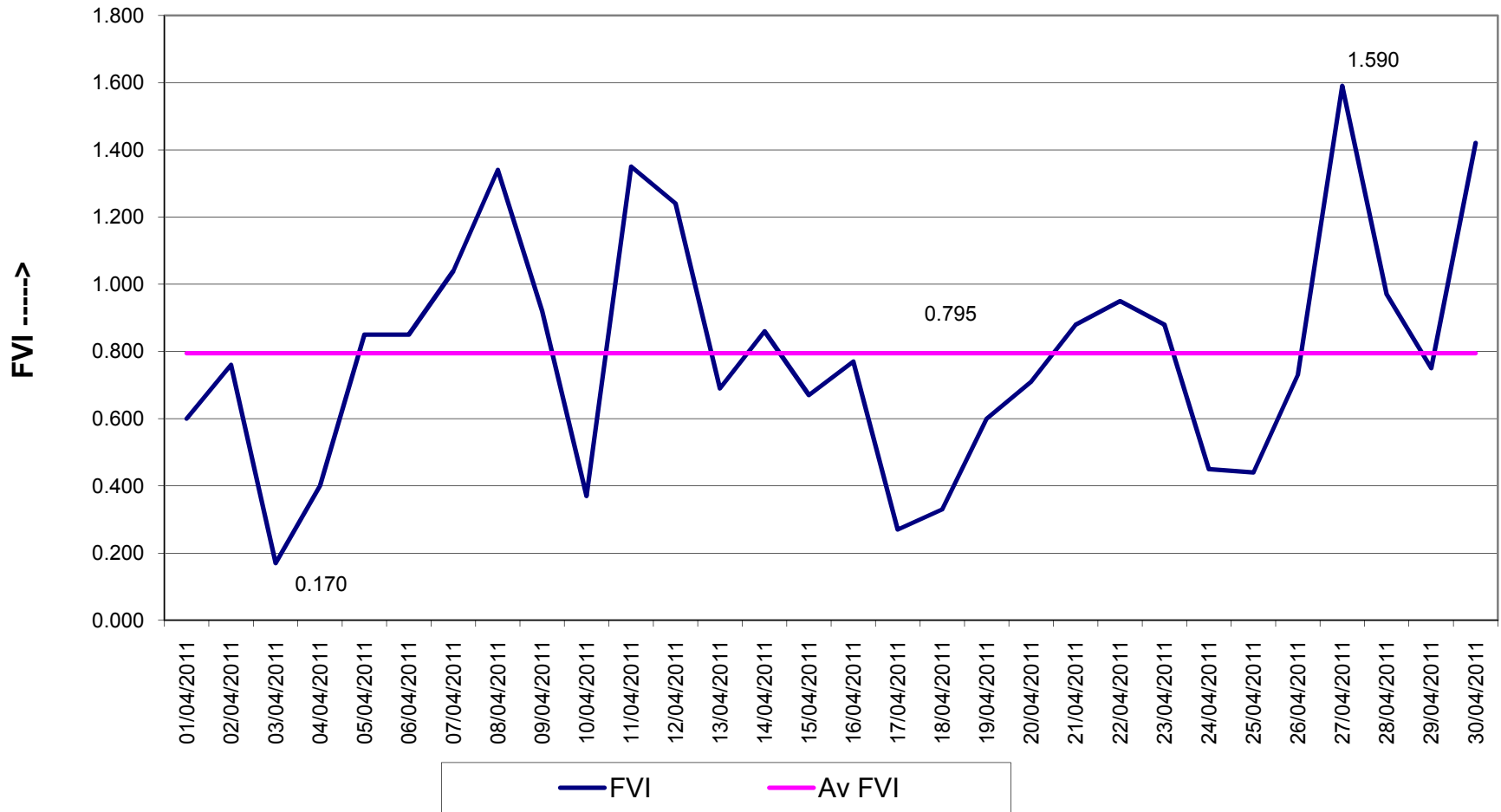


N.B - 1. Drawals are at inletpoints.  
 2. NTPC to ASEB 111.84 MU  
 MeSEB 22.93 MU  
 Nagaland 3.46 MU  
 Ar. Pradesh 5.81 MU  
 Mizoram 3.46 MU  
 3. Details of Bilateral transactions given in Annexure-III

Frequency Duration for April, 2011

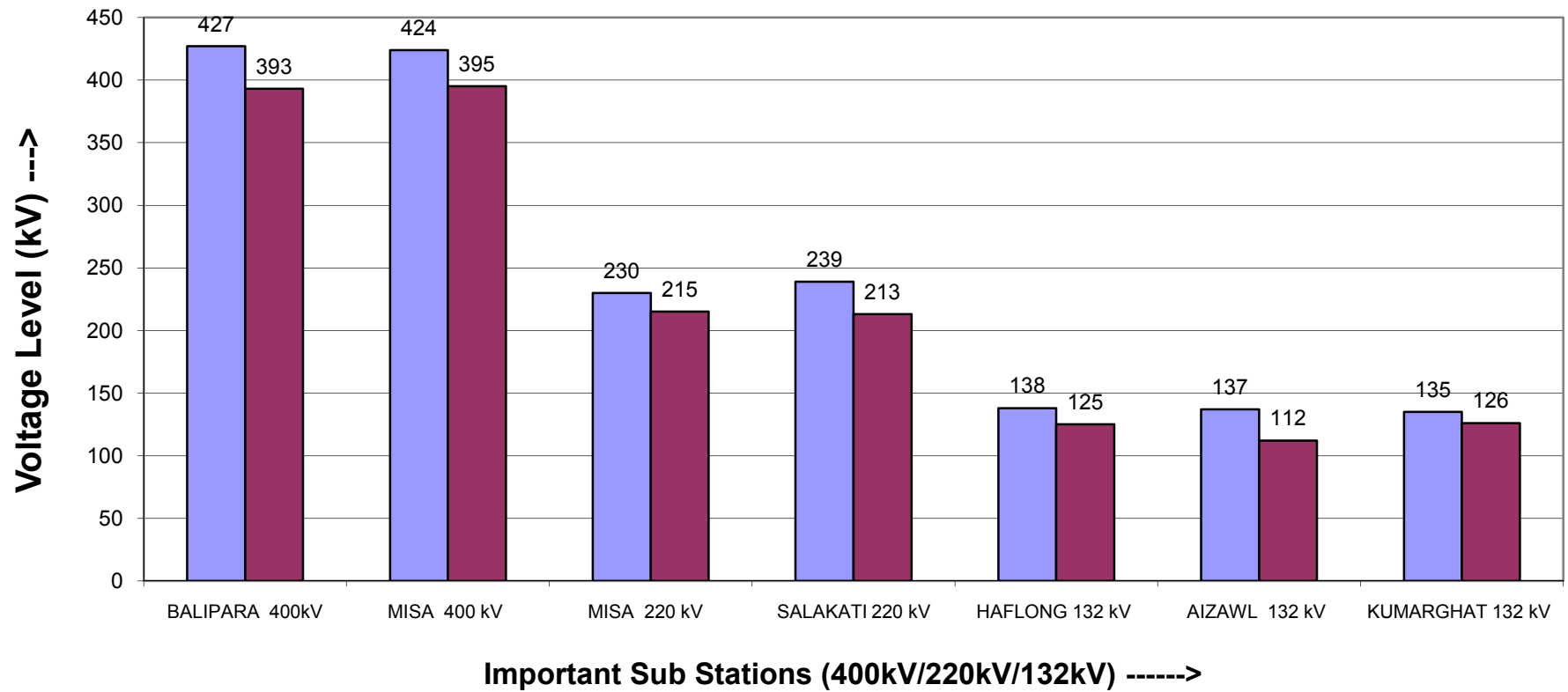


### FVI Characteristics for April, 2011

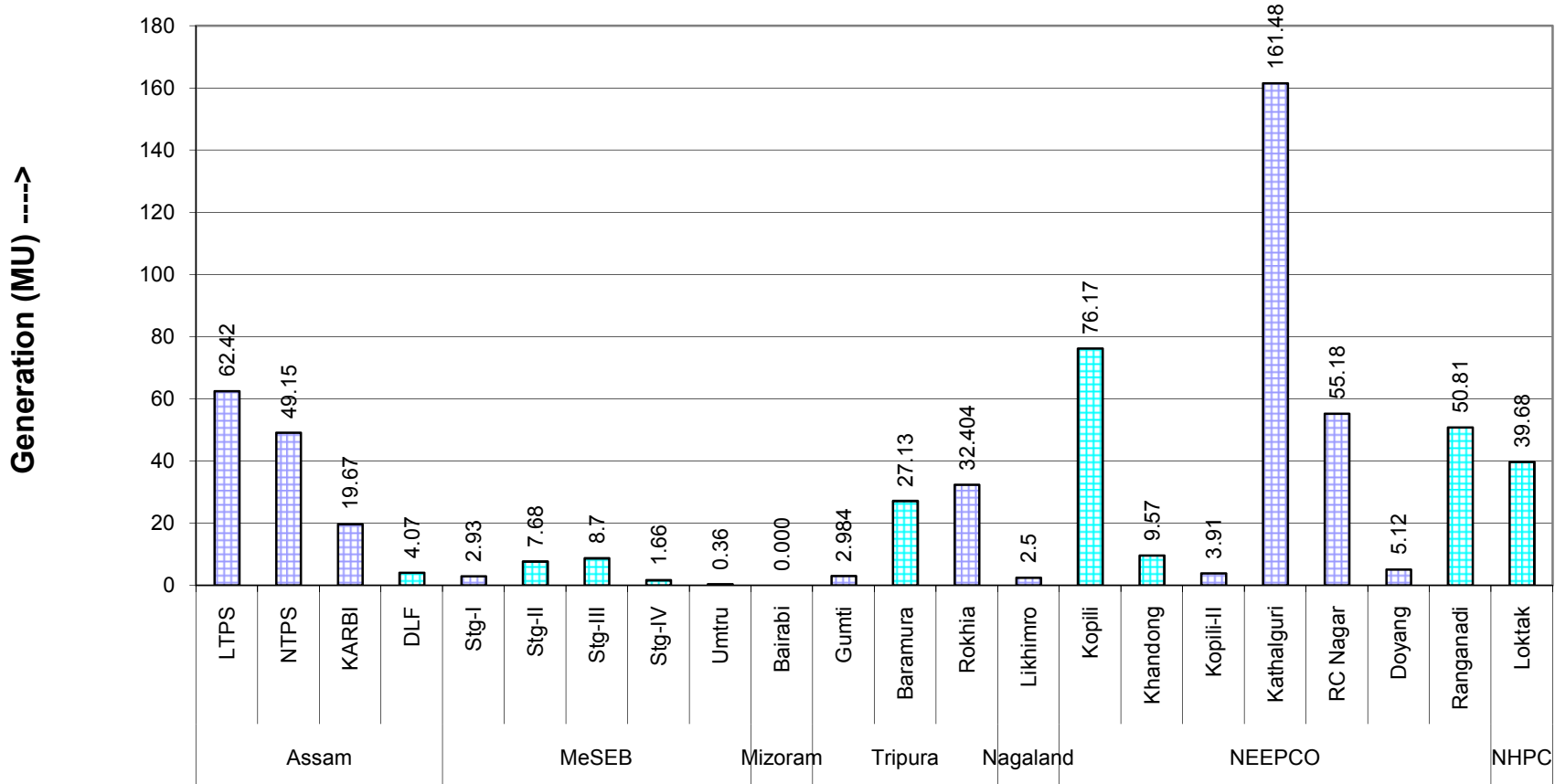


Maximum & Minimum Voltage Levels of Important Substations in NER during

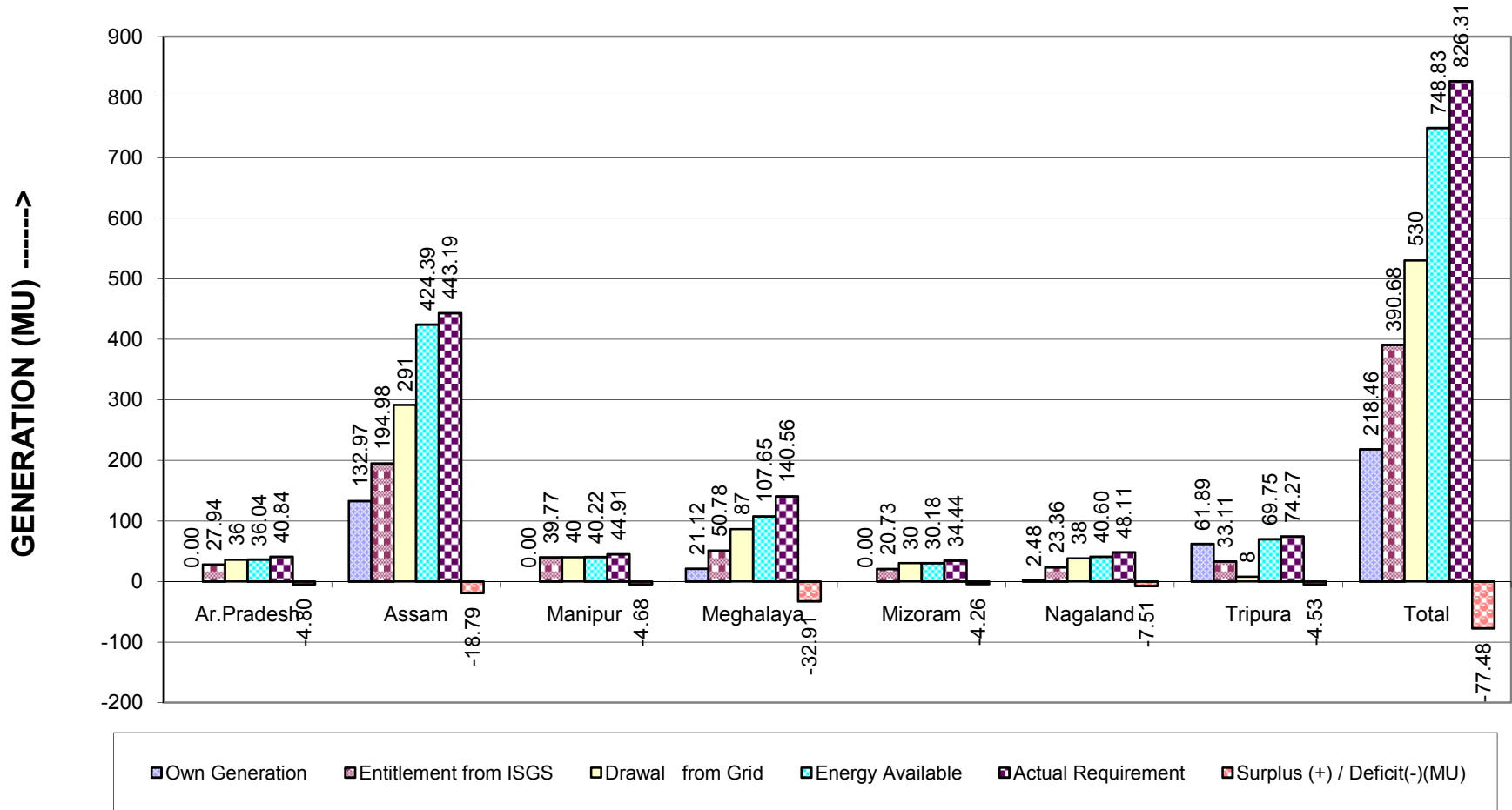
April, 2011



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



NER States Energy Scenario in April, 2011



Reservoir Statistics of NER in April, 2011

