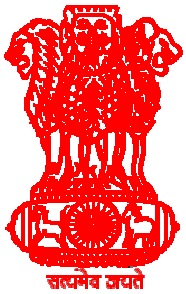


भारत सरकार Government of India
विद्युत मंत्रालय Ministry of Power
केंद्रीय विद्युत प्राधिकरण
Central Electricity Authority

उत्तर पूर्वी क्षेत्रीय विद्युत समिति
North Eastern Regional Power Committee

शिलोंग Shillong

Progress Report

For the month of

October, 2011

CONTENTS

NORTH EASTERN REGIONAL POWER COMMITTEE

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

- The maximum unrestricted demand during the month of October, 2011 was 1909 MW, which was 1876 MW in the month of September, 2011. The peak demand met in NER during the period under review was 1690 MW, which was 1690 MW last month.

- The energy requirement during the month of October, 2011 was 974.49 MU, which was 1018.15 MU in the month of September, 2011. The energy availability in NER during the period under review was 881.29 MU, which was 936.45 MU last month.

- The maximum, minimum & average system frequency were 50.68, 48.59 & 49.66 Hz respectively. The maximum, minimum & average FVI were 9.840, 0.230 & 1.855 respectively. The average FVI was more than its previous month's figure. (refer Annex-II).

- Maximum export of power from NER to ER was 302 MW (on 01/10/11 at 05:38 hrs) and that from ER to NER was 690 MW (26/10/11 at 17:20 hrs). Total net energy import during the month was 117.63 MU (from ER).

SALIENT FEATURES OF
NORTH EASTERN REGIONAL GRID FOR OCTOBER, 2011

1	New unit/ transmission lines/Transformers commissioned during this month		**Nil**	
2	Number of total grid disturbance during this month		**Nil**	
			Oct-11	**Oct-10**
3	**Installed Capacity** of the Region (in MW)(grid)		2054.12	2054.12
4	**Energy Generation in MU (Gross)::**			
	Thermal		370.980	395.260
	Hydel		415.848	484.900
	Diesel / Oil		0.000	0.000
	Total		786.828	880.160
5	**Demand in MW ::**			
	Registered Peak demand		1909.00	1913.00
	Peak demand met		1782.00	1560.00
	Shortage (% age)		-6.65	-18.45
6	**Regional Energy(Gross) in MU ::**			
	Energy requirement		974.49	901.53
	Energy availability		881.29	821.69
	Surplus (+) / Deficit (-) (% age)		-9.56	-8.86
7	**Inter Regional Energy Exchange in MU ::**			
	NER ----> ER		6.525	86.109
	ER ----> NER		124.158	59.955
	Net Import		117.633	26.15
8	**Frequency profile ::**			
	Average frequency (Hz)		49.66	49.94
	Average Frequency Variation Index		1.855	0.316
9	Load Factor (in %)		62.05	57.73

ENERGY GENERATION IN THE REGION FOR THE MONTH OF Oct-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	45.857	45.398	0.000	0.000	74.169	73.427	42.800	41.516	162.826	160.341
Meghalaya	57.052	56.481	0.000	0.000	0.000	0.000	0.000	0.000	57.052	56.481
Mizoram	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tripura	5.666	5.609	0.000	0.000	66.482	65.817	0.000	0.000	72.148	71.426
Nagaland	11.010	10.900	0.000	0.000	0.000	0.000	0.000	0.000	11.010	10.900
Total (State Sector)									**303.035**	**299.149**
Central Sector :										
NEEPCO :										
Khd+Kop+Kop-II	130.120	128.819	0.000	0.000	0.000	0.000	0.000	0.000	130.120	128.819
K'guri	0	0	0.000	0.000	0	0	137.975	133.835	137.975	133.835
RCNagar	0	0	0	0	57.814	57.236	0	0	57.814	57.236
Doyang	25.101	24.850	0	0	0	0	0	0	25.101	24.850
Ranganadi	65.261	64.609	0	0	0	0	0	0	65.261	64.609
NHPC :										
Loktak	76.257	75.494	0.000	0.000	0.000	0.000	0.000	0.000	76.257	75.494
Total (Central Sector)									492.528	484.843
Total NER	416.323	412.160	0.000	0.000	198.465	196.480	180.775	175.351	**795.563**	**783.992**

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.	45.82	41.72	4.09	8.94%	110	102	8	7.45%
Assam	530.06	498.79	31.27	5.90%	1062	1053	9	0.88%
Manipur	52.78	50.20	2.58	4.89%	110	106	4	3.64%
M'laya	168.39	124.50	43.89	26.06%	262	259	3	1.09%
Mizoram	34.52	31.38	3.13	9.08%	65	62	3	4.97%
Nagaland	51.14	48.07	3.07	6.00%	105	104	1	0.95%
Tripura	91.79	86.62	5.16	5.63%	215	214	2	0.83%
REGION	974.49	881.29	93.21	9.56%	1909	1782	127	6.64%

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	102.00	03/10/2011	49.93	0.21	8	110.21
Assam	1052.86	03/10/2011	49.93	2.21	7	1062.21
Manipur	106.00	27/10/2011	50.00	0.00	4	110.00
Meghalaya	259.00	01/10/2011	49.76	1.86	1	261.86
Mizoram	62.00	18/10/2011	49.87	0.24	3	65.24
Nagaland	104.00	25/10/2011	50.00	0.00	1	105.00
Tripura	213.66	03/10/2011	49.93	0.45	1	215.45
REGION	1782.00	03/10/2011	49.93	3.74	123	1908.84

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

ESTIMATION OF ENERGY REQUIREMENT (in MU)

Average Frequency 49.66 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	34.900	6.839	41.720	-0.019	41.720	0.427	3.67	45.815
Assam	160.341	228.022	73.641	338.449	36.787	498.791	5.106	26.17	530.064
Manipur	0.000	54.231	0.000	50.198	-4.034	50.198	0.514	2.07	52.780
M'laya	56.481	63.405	19.546	68.022	-14.928	124.503	1.275	42.61	168.392
Mizoram	0.000	25.047	4.061	31.382	2.273	31.382	0.321	2.81	34.516
Nagaland	10.900	30.916	13.295	37.170	-7.040	48.070	0.492	2.58	51.138
Tripura	71.426	41.047	0.000	15.196	-25.851	86.622	0.887	4.28	91.787
REGION	299.149	477.567	117.383	582.137	-12.813	881.286	9.022	84.18	974.491

*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)	
				Oct-11	Oct-10
	STATE SECTOR : HYDRO				
	ASSAM :: HYDRO				
1	KARBI HEP U - 1	50.00	50.80	19.319	0.000
2	KARBI HEP U - 2	50.00	51.00	26.538	37.220
	TOTAL	100.00		45.857	37.220
	MEGHALAYA :: HYDRO				
1	STAGE - 1	36.00	27.77	13.063	5.490
2	STAGE - 2	18.00	0.00	0.000	14.990
3	STAGE - 3	60.00	60.39	14.726	28.930
4	STAGE - 4	60.00	61.04	25.120	0.560
5	UMTRU	11.20	4.00	3.668	0.420
	TOTAL	185.20		56.577	50.390
	NAGALAND :: HYDRO				
6 7 8	LIKIMRO - 1 LIKIMRO - 2 LIKIMRO - 3	24.00	24.00	11.010	8.500
	TOTAL	24.00		11.010	8.500
	TRIPURA :: HYDRO				
9	GUMTI - 1	5.00	Gumti Stn. Peak =6.5 MW	0.000	0.000
10	GUMTI - 2	5.00		2.843	2.630
11	GUMTI - 3	5.00		2.822	2.060
	TOTAL	15.00		5.666	4.690
	TOTAL STATE (HYDRO) :	324.20		119.109	100.800

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)	
				Oct-11	Oct-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 = 21.3 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		15.191	19.440
5	BARAMURA - 5	21.00		15.524	0.000
6	ROKHIA - 1	8.00	Rokhia Stn. Peak = 47.1MW	0.000	0.000
7	ROKHIA - 2	8.00		0.000	0.000
8	ROKHIA - 3	8.00		0.000	6.330
9	ROKHIA - 4	8.00		4.800	5.690
10	ROKHIA - 5	8.00		0.000	0.000
11	ROKHIA - 6	8.00		0.000	0.000
12	ROKHIA - 7	21.00		15.596	12.790
13	ROKHIA - 8	21.00		15.371	14.980
	TOTAL	148.50		66.482	59.230
	ASSAM :: THERMAL				
1	LTPS - 1	15.00	15.1	9.530	7.280
2	LTPS - 2	15.00	14.8	7.520	8.550
3	LTPS - 3	15.00	14.5	2.290	10.220
4	LTPS - 4	15.00	15.1	8.996	0.000
5	LTPS - 5	20.00	21.77	12.994	11.350
6	LTPS - 6	20.00	21.9	14.812	14.730
7	LTPS - 7	20.00	24.4	4.613	13.500
8	NTPS - 1	20.00	20.0	10.990	14.230
9	NTPS - 2	21.00	20.5	11.825	13.180
10	NTPS - 3	21.00	18.0	9.925	0.000
11	NTPS - 4	11.00	10.0	2.977	7.730
12	NTPS - 5	22.00	0.0	0.000	0.000
13	NTPS - 6	22.00	12.0	7.083	8.240
14	DLF	24.50	7	5.154	4.860
	TOTAL	261.50		108.709	113.870
TOTAL STATE THERMAL/GAS :		432.92		175.191	173.100
TOTAL SC GEN(HY+TH/GAS)		**757.12**		**294.300**	**273.900**

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)	
				Oct-11	Oct-10
	CENTRAL SECTOR : HYDRO				
1	KHANDONG - 1	25.00	22.87	1.610	12.960
2	KHANDONG - 2	25.00	25.28	7.184	13.570
3	KOPILI Stg - II	25.00	25.02	7.666	15.110
4	KOPILI - 1	50.00	52.00	23.638	35.890
5	KOPILI - 2	50.00	58.41	29.208	0.000
6	KOPILI - 3	50.00	49.00	28.988	34.980
7	KOPILI - 4	50.00	51.74	31.826	37.100
8	DOYANG -1	25.00	24.26	8.434	13.340
9	DOYANG -2	25.00	22.96	8.236	10.200
10	DOYANG -3	25.00	23.82	8.431	13.330
11	LOKTAK - 1	35.00	38.32	25.557	17.930
12	LOKTAK - 2	35.00	37.32	25.532	25.170
13	LOKTAK - 3	35.00	37.07	25.167	23.690
14	RANGANADI - 1	135.00	143.29	21.289	38.750
15	RANGANADI - 2	135.00	139.83	22.111	40.870
16	RANGANADI - 3	135.00	142.18	21.861	51.210
TOTAL HYDRO :		**860.00**		**296.739**	**384.100**
	CENTRAL SECTOR : THERMAL/GAS				
1	KATHALGURI - 1	33.50	33.24	8.495	20.960
2	KATHALGURI - 2	33.50	32.95	7.516	21.490
3	KATHALGURI - 3	33.50	33.83	22.813	22.380
4	KATHALGURI - 4	33.50	33.77	22.949	21.640
5	KATHALGURI - 5	33.50	33.04	21.481	14.210
6	KATHALGURI - 6	33.50	33.30	21.788	22.030
7	KATHALGURI - 7	30.00	0.00	0.000	15.870
8	KATHALGURI - 8	30.00	23.41	15.968	16.980
9	KATHALGURI - 9	30.00	25.32	16.965	12.790
10	R.C.NAGAR - 1	21.00	21.02	14.576	11.700
11	R.C.NAGAR - 2	21.00	20.60	14.317	13.230
12	R.C.NAGAR - 3	21.00	21.30	14.318	14.080
13	R.C.NAGAR - 4	21.00	21.33	14.603	14.800
TOTAL THERMAL/GAS :		375.00		195.789	222.160
TOTAL CS (HY + TH/GAS) :		1235.000		492.528	606.260
TOTAL NER GEN(HY+TH/GAS) :		**1992.120**		**786.828**	**880.160**

Plant Load Factor (PLF) and Voltage Profile : Oct-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	60.755	68.05
2	NTPS*	AEGCL	117.00	42.800	49.17
3	Baramura	Tripura	58.50	30.715	70.57
4	Rokhia	Tripura	90.00	35.767	53.42
5	AGBPP	NEEPCO	291.00	137.975	**63.73**
6	AGTPP	NEEPCO	84.00	57.814	92.51

*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	443	377
2	MISA 400 kV	428	386
3	MISA 220 kV	232	211
4	SALAKATI 220 kV	222	216
5	HAFLONG 132 kV	139	119
6	AIZAWL 132kV	136	113
7	KUMARGHAT 132kV	136	120

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	98.52	1.48
BALIPARA	0.00	0.06	94.52	5.43

1 **INTER - REGIONAL EXCHANGE :**

All Fig in MU

NER to ER	6.525
ER to NER	124.158
NET IMPORT	117.633

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

3	**MEETING HELD BY NERPC DURING THIS MONTH**	1. 66th OCC Meeting was held on 12.10.11 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	3x42	2011	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 (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	132 kV Agia - Nangalbibra	110		2012					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 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 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 Oct-11

Organisation	Actual (MU)	Schedule (MU)	UI Energy (MU)	UI Receivable (Rs. in Lakhs)	UI Payable (Rs. in Lakhs)
Arunachal Pradesh	41.720	38.633	3.087	27.499	239.877
ASEB	338.449	348.256	-9.806	612.334	196.305
Manipur	50.198	60.017	-9.819	538.464	13.824
MeSEB	68.022	68.522	-0.500	149.115	95.035
Mizoram	31.382	26.974	4.408	3.816	258.052
Nagaland	37.170	30.996	6.174	49.510	776.697
Tripura	15.196	22.137	-6.941	320.359	18.134

Entitlement, Schedule, Drawal and UI Charges Oct-11

Name of beneficiaries	Entit. from scheduled energy from ISGS in NER (Ex-PP State) (in MU)	Entit. from scheduled energy from ISGS in ER (Ex-PP State) (in MU)	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	34.900	6.839	41.740	38.633	41.720	3.087	-2.124
ASEB	228.022	73.641	301.663	348.256	338.449	-9.806	4.160
Manipur	54.231	0.000	54.231	60.017	50.198	-9.819	5.246
MeSEB	63.405	19.546	82.951	68.522	68.022	-0.500	0.541
Mizoram	25.047	4.061	29.108	26.974	31.382	4.408	-2.542
Nagaland	30.916	13.295	44.210	30.996	37.170	6.174	-7.272
Tripura	41.047	0.000	41.047	22.137	15.196	-6.941	3.022

(Source : UI A/c, NERPC)

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

States	Schedule From ISGS(MWH)	Bilateral Schedule from Outside NER (MWH)	Total Schedule (MWH)	Ex.PP. Drawal (MWH)	Tr. Energy (MWH)
Arunachal Pradesh	35369.51	6967.03	42336.54	43708.07	43708.07
ASEB	232189.15	75053.55	307242.70	354144.45	354144.45
Manipur	55082.35		55082.35	52525.47	55082.35
MeSEB	64377.17	19915.98	84293.15	71176.83	84293.15
Mizoram	25449.87		25449.87	26314.45	26314.45
Nagaland	31483.49	13542.55	45026.04	38894.01	45026.04
Tripura	41349.31		41349.31	15900.54	41349.31
Total	485300.85	115479.10	600779.95	602663.81	649917.81

ISGS	Schedule (MWH)	Injection (MWH)
LOKTAK	75133.67	75084.86
KHANDONG	8551.85	8528.80
KOPILI-I	113308.30	113247.40
KOPILI-II	7524.60	7561.84
DHEP	24130.52	24136.55
RHEP	66211.25	65161.75
AGTPP	56050.72	56642.22
AGBPP	134389.94	134668.11
Total	485300.85	485031.53

Source : Provisional REA for the month: Oct-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 2011-12

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	67.9814 *	*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:- 26.10.2011

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	450.21	256	447.27	703.6	0	82.2	82.20	0	0.0	-0.04	34.92	31.87	46.18	52.88	259.20	706.58	951.65	965.85	14.2	436.01
2	455.51	256	424.33	680.1	39	65.0	103.55	102	-5.5	96.54	29.19	30.01	42.57	53.38	205.19	851.94	894.67	916.54	21.9	433.65
3	455.54	258	413.36	671.6	33	72.7	105.76	102	-6.5	95.19	27.68	29.38	45.01	50.93	197.44	848.54	890.74	911.26	20.5	435.02
4	454.83	259	421.35	680.2	33	67.2	100.34	102	-8.6	92.92	21.31	29.10	44.89	48.79	186.12	848.27	882.89	899.83	16.9	437.89
5	466.34	259	420.74	679.8	33	99.0	132.09	102	-7.9	93.67	40.23	34.52	49.33	46.48	237.82	860.01	941.48	963.27	21.8	444.55
6	516.63	261	398.53	660.0	33	73.2	106.33	102	-11.9	89.83	65.02	44.79	57.95	52.49	198.13	912.93	941.49	976.26	34.8	481.86
7	555.85	247	401.28	648.1	67	97.5	164.46	102	-7.8	94.11	76.23	55.13	52.27	65.56	214.44	971.55	986.92	1017.15	30.2	525.62
8	511.84	230	411.66	641.9	61	105.0	166.10	101	-6.0	95.52	83.72	54.15	46.95	61.40	267.03	904.57	987.15	1009.13	22.0	489.86
9	510.86	221	399.75	621.0	56	122.7	178.68	101	-7.8	93.60	88.74	43.93	44.89	61.30	267.23	889.43	974.74	999.37	24.6	486.23
10	464.15	220	418.68	638.6	54	87.2	141.39	101	-8.7	92.39	75.78	41.12	41.16	56.13	268.19	839.42	931.25	952.34	21.1	443.05
11	461.13	184	436.50	620.2	59	79.7	139.18	101	-10.8	90.43	71.26	41.53	43.44	47.94	267.41	805.49	893.27	912.29	19.0	442.12
12	460.46	177	452.53	629.1	47	90.6	137.92	101	-10.4	90.64	73.74	42.21	44.29	47.91	304.95	785.44	917.48	942.09	24.6	435.85
13	468.34	176	448.11	624.3	39	108.5	147.64	101	-9.0	91.81	69.64	45.19	46.66	43.89	314.12	784.42	929.20	958.70	29.5	438.84
14	480.65	160	449.73	609.7	39	115.1	154.16	101	-8.2	93.04	88.07	41.61	51.82	42.55	327.90	780.98	940.65	968.63	28.0	452.68
15	475.43	159	437.61	596.6	33	147.1	180.05	101	-8.5	92.41	83.57	45.15	55.35	49.66	364.20	768.27	968.99	998.72	29.7	445.70
16	505.82	157	423.86	581.3	4	151.6	155.76	101	-3.8	97.20	92.20	54.91	50.92	60.89	334.05	768.43	988.06	997.41	9.3	496.48
17	658.12	153	623.85	776.5	28	146.8	174.95	101	53.0	154.20	91.96	52.08	56.83	84.62	497.91	940.05	1261.80	1308.79	47.0	611.13
18	876.89	199	797.46	996.4	42	148.0	189.90	101	89.9	191.39	91.05	44.43	67.62	83.72	492.56	1219.19	1521.16	1568.54	47.4	829.50
19	1014.26	206	816.40	1021.9	72	149.2	221.67	102	84.2	186.03	97.34	48.68	61.68	88.25	379.15	1393.98	1551.37	1599.07	47.7	966.56
20	1064.60	235	804.25	1039.1	66	148.9	214.80	101	80.8	182.21	100.19	49.07	66.14	86.04	326.12	1466.66	1570.26	1625.68	55.4	1009.18
21	990.85	238	758.58	996.5	66	145.9	211.89	101	72.0	173.40	100.25	51.42	63.41	80.28	323.96	1396.26	1509.73	1552.92	43.2	947.67
22	842.07	246	690.61	936.9	60	148.3	208.77	101	55.4	156.81	95.83	44.12	60.35	68.45	378.13	1250.23	1409.34	1466.63	57.3	784.78
23	670.89	249	582.40	831.1	42	137.1	178.79	101	36.2	137.63	91.10	41.46	51.24	58.41	349.67	1062.75	1246.67	1269.38	22.7	648.18
24	508.81	236	475.52	711.9	37	125.2	162.66	101	19.3	120.69	83.91	35.37	48.09	52.43	317.66	884.00	1076.19	1062.89	-13.3	522.10
Max	1064.60	261	816.40	1039.06	72	151.6	221.67	102	89.9	191.39	100.25	55.13	67.62	88.25	497.91	1466.66	1570.26	1625.68	57.3	1009.18
Min	450.21	153	398.53	581.32	0	65.0	82.20	0	-11.9	-0.04	21.31	29.10	41.16	42.55	186.12	706.58	882.89	899.83	-13.3	433.65

HOURLY DATA ON MINIMUM DEMAND MET DAY

DATE: 22.10.2011

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	459.78	252	279.4	531.19	69	88.9	157.53	92	-8.76	82.86	24.33	30.48	32.54	48.69	47.08	871.9	587.2	598.56	11.4	448.39
2	460.47	250	283.9	533.98	64	80.2	144.17	92	-12.93	78.69	16.24	28.76	32.13	46.69	33.65	866.2	566.6	585.81	19.2	441.24
3	460.73	249	275.2	524.34	55	83.4	138.42	92	-14.56	77.06	16.71	29.36	31.65	47.62	24.57	856.5	561.0	576.99	16.0	444.73
4	462.32	242	281.7	524.15	48	91.1	139.50	92	-17.56	74.06	16.81	30.95	31.84	47.07	39.15	844.8	573.6	593.16	19.6	442.72
5	464.93	245	281.4	526.18	49	90.5	139.10	92	-17.67	73.95	31.48	33.21	34.62	49.41	60.48	849.9	594.6	617.10	22.5	442.42
6	463.81	244	259.8	504.22	49	90.5	139.25	92	-21.95	69.67	67.12	44.95	41.89	46.50	91.15	848.6	620.5	650.74	30.3	433.53
7	552.09	242	273.5	515.45	67	94.9	161.61	92	-16.67	74.95	79.61	52.89	42.94	50.67	55.66	952.3	669.5	699.45	29.9	522.14
8	547.56	241	319.5	560.58	73	99.0	171.87	92	-11.95	79.67	83.24	57.28	33.93	44.56	102.09	953.1	717.2	741.34	24.1	523.43
9	513.59	234	336.1	570.11	81	87.1	168.45	92	-11.68	79.94	80.38	47.91	28.59	39.25	125.07	920.6	699.3	730.35	31.1	482.51
10	276.13	234	378.9	612.67	66	70.4	136.06	92	-11.47	80.15	68.94	40.85	19.40	35.02	353.44	667.2	693.7	721.27	27.6	248.54
11	301.95	215	255.5	470.30	87	67.3	154.66	92	-12.07	79.55	65.85	32.93	31.17	35.47	186.85	695.7	567.8	580.49	12.7	289.23
12	331.72	235	276.4	511.12	87	65.4	152.44	92	-9.64	81.98	65.56	37.00	41.30	37.06	188.57	745.1	604.7	611.98	7.3	324.40
13	404.21	226	306.1	531.74	87	73.8	160.48	92	-7.36	84.26	56.50	42.51	45.05	40.79	160.20	808.2	649.0	656.10	7.1	397.08
14	423.08	240	358.2	598.10	63	97.8	160.73	92	-9.59	82.03	79.86	43.48	48.98	36.94	255.84	817.6	747.2	770.61	23.4	399.72
15	422.14	231	380.5	611.96	57	86.2	142.94	92	-12.92	78.70	75.51	47.41	54.17	38.52	276.57	801.9	761.0	790.40	29.4	392.78
16	449.97	209	375.1	584.11	69	96.9	165.71	92	-9.16	82.46	78.31	48.60	57.40	44.83	249.53	819.4	783.6	791.19	7.6	442.36
17	644.38	214	488.8	702.98	68	109.7	177.78	92	28.18	119.80	80.63	58.45	60.80	64.00	292.87	1018.3	982.2	1029.01	46.8	597.54
18	874.47	218	620.5	838.59	95	152.5	247.60	102	50.04	151.56	71.72	61.37	64.11	89.02	309.00	1289.2	1210.8	1285.14	74.3	800.13
19	968.42	241	643.1	883.80	101	141.3	242.53	102	54.72	156.47	90.41	60.64	65.12	88.16	225.07	1412.1	1245.2	1295.38	50.2	918.25
20	989.89	248	689.8	937.84	94	152.0	246.45	101	52.95	154.31	89.71	59.91	61.86	83.44	248.27	1433.8	1291.0	1339.65	48.6	941.24
21	954.01	247	650.8	897.45	73	147.3	220.44	101	44.44	145.80	90.46	56.45	64.21	78.26	214.24	1375.1	1233.3	1269.76	36.5	917.55
22	895.61	255	594.2	848.94	72	147.7	219.73	101	23.60	124.96	87.94	50.91	59.51	72.52	144.18	1323.7	1137.8	1141.29	3.5	892.11
23	747.57	243	520.2	763.45	62	135.8	198.24	101	5.46	106.82	85.59	47.70	53.02	56.21	177.09	1154.6	1005.4	1026.09	20.7	726.84
24	573.03	251	361.1	611.74	56	105.3	161.82	101	-8.72	92.64	75.94	39.82	49.11	50.59	105.90	981.5	774.5	780.36	5.8	567.22
Max	989.89	255	689.8	937.84	101	152.5	247.60	102	54.72	156.47	90.46	61.37	65.12	89.02	353.44	1433.8	1291.0	1339.65	74.3	941.24
Min	276.13	209	255.5	470.30	48	65.4	136.06	92	-21.95	69.67	16.24	28.76	19.40	35.02	24.57	667.2	561.0	576.99	3.5	248.54

ANNEXURES
&
EXHIBITS

Annexure-I

RESERVOIR PARTICULARS OF THE MONTH : **Oct-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	717.25	19.58	717.50	19.58
KOPILI	609.5 M	592.83 M	608.45	91.30	603.37	51.20
LOKTAK	768.5 M	766.2 M	768.91	250.00	768.69	250.00
BARAPANI	3220 Ft	3150 Ft	3208.82	37.55	3202.11	30.21
GUMTI	93.55 M	83.6 M	88.80	11.06	87.60	7.47
DOYANG	333 M	306 M	322.45	30.00	319.47	21.50

Annexure-II

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

Frequency	(Freq.in Hz)	(Time: H:M)	(Date:D.M.Y)
1. Maximum frequency	50.68	16:08	26-Oct-11
2. Minimum frequency	48.59	14:53	10-Oct-11
3. Monthly average	49.66		

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
01-Oct-11	1.320	17-Oct-11	1.150
02-Oct-11	0.640	18-Oct-11	0.970
03-Oct-11	1.630	19-Oct-11	1.530
04-Oct-11	1.190	20-Oct-11	1.340
05-Oct-11	1.190	21-Oct-11	1.340
06-Oct-11	1.190	22-Oct-11	0.670
07-Oct-11	4.110	23-Oct-11	0.620
08-Oct-11	5.780	24-Oct-11	1.040
09-Oct-11	5.910	25-Oct-11	0.540
10-Oct-11	**9.840**	26-Oct-11	0.360
11-Oct-11	9.760	27-Oct-11	**0.230**
12-Oct-11	4.950	28-Oct-11	0.290
13-Oct-11	3.110	29-Oct-11	0.290
14-Oct-11	3.110	30-Oct-11	0.490
15-Oct-11	2.020	31-Oct-11	0.720
16-Oct-11	0.840	**Average FVI**	**1.855**

Annexure-III

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

Sl.No.	From	To	Energy (At Seller Injn. Point) (MWH)		Energy (At State Periphery) (MWH)
1	Tripura (Baramura-IV)	Manipur	3470.000000		3346.056099
2	Tripura (Baramura-IV)	Mizoram	3470.000000		3346.056099
3	Tripura (Baramura-V)	Manipur	3534.000000		3407.511300
4	Tripura (Baramura-V)	Mizoram	3534.000000		3407.511300
5	MeECL	TSECL (NVVN)	2509.540000		2430.460000
6	MeECL	TSECL (NVVN)	1898.380000		1841.950000
7	Mizoram	TSECL (TSECL)	1172.710000		1155.000000
8	ASEB	POWERGRID^	228.788600	^ The actual energy consumed by POWERGRID	

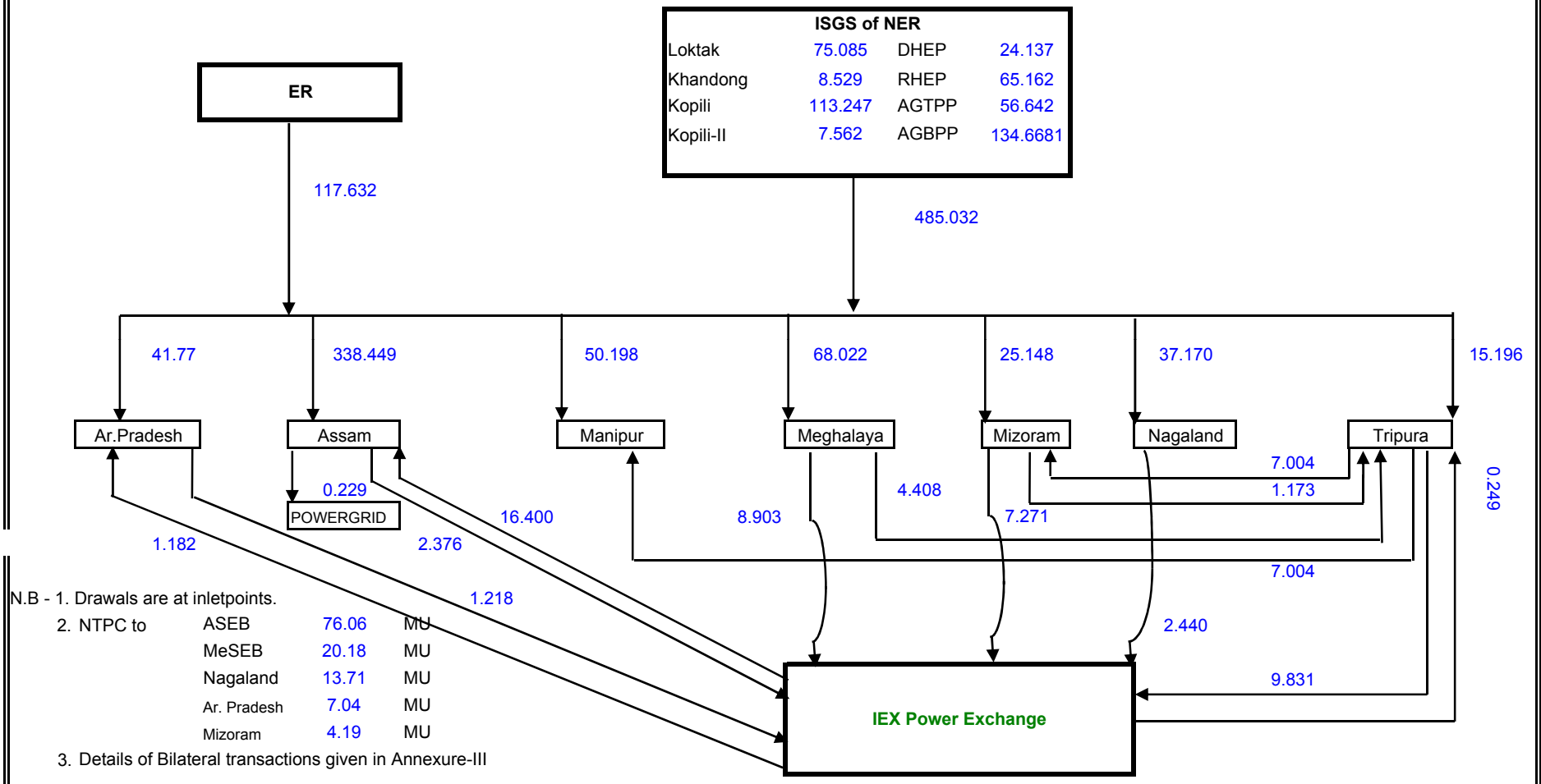
Scheduled Bilateral Exchange with SEBs / Organisations in other Regions

Sl.No.	From	To	Energy (At Seller Periphery) (MWH)	Energy (At NER-ER Periphery) (MWH)	Energy (At Buyer Periphery) (MWH)
1	AP	KSEB (AP)	1499.210000	1472.050000	
2	APDCL	BSEB (NVVN)	4304.340000	4212.000000	
3	DVC	APDCL (TPTL)		41664.000000	40911.360000
4	Nagaland	KSEB (Nag)	7308.000000	7200.000000	
5	Nagaland	Solaris (Nag)	2923.200000	2880.000000	
6	Farakka*	Ar. Pradesh	3099.655275	3060.500000	3003.781313
7	Kahalgaon 1*	Ar. Pradesh	1690.030375	1677.925000	1646.781500
8	Talcher*	Ar. Pradesh	2251.866250	2228.600000	2188.929625
9	Farakka*	Assam	26981.495425	26607.100000	26105.393875
10	Kahalgaon 1*	Assam	10594.207375	10443.600000	10245.394500
11	Kahalgaon 2*	Assam	23484.623800	23163.075000	22721.029500
12	Talcher*	Assam	15004.252000	14839.775000	14569.358688
13	Farakka*	MeECL	5602.695300	5521.100000	5418.776313
14	Kahalgaon 1*	MeECL	3073.000500	3028.600000	2972.426375
15	Kahalgaon 2*	MeECL	7425.968000	7325.975000	7186.171875
16	Talcher*	MeECL	4077.271250	4040.300000	3968.375250
17	Farakka*	Nagaland	6015.212075	5933.425000	5823.474750
18	Kahalgaon 1*	Nagaland	3298.291375	3258.450000	3197.972625
19	Talcher*	Nagaland	4394.854250	4350.675000	4273.173875
20	Farakka*	Mizoram	1851.516775	1821.275000	1787.531313
21	Kahalgaon 1*	Mizoram	996.633875	988.075000	969.760250
22	Talcher*	Mizoram	1342.205500	1327.825000	1304.198438

	Bilateral exchange through IEX Power Exchange (-ve means injection, +ve means drawal)				
23	Ar. Pradesh		-1217.770000	-1195.000000	
24	Ar. Pradesh			1208.200000	1181.950000
25	Assam		-2375.630000	-2340.000000	
26	Assam			16701.330000	16399.670000
27	MeECL		-8903.080000	-8753.980000	
28	Mizoram		-7271.110000	-7142.400000	
29	Nagaland		-2440.000000	-2403.400000	
30	Tripura		-9830.790000	-9653.000000	
31	Tripura			254.000000	249.210000

Annexure-IV

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



N.B - 1. Drawals are at inletpoints.

2. NTPC to

ASEB	76.06	MU
MeSEB	20.18	MU
Nagaland	13.71	MU
Ar. Pradesh	7.04	MU
Mizoram	4.19	MU

3. Details of Bilateral transactions given in Annexure-III

Exhibit-I

Frequency Duration for October, 2011

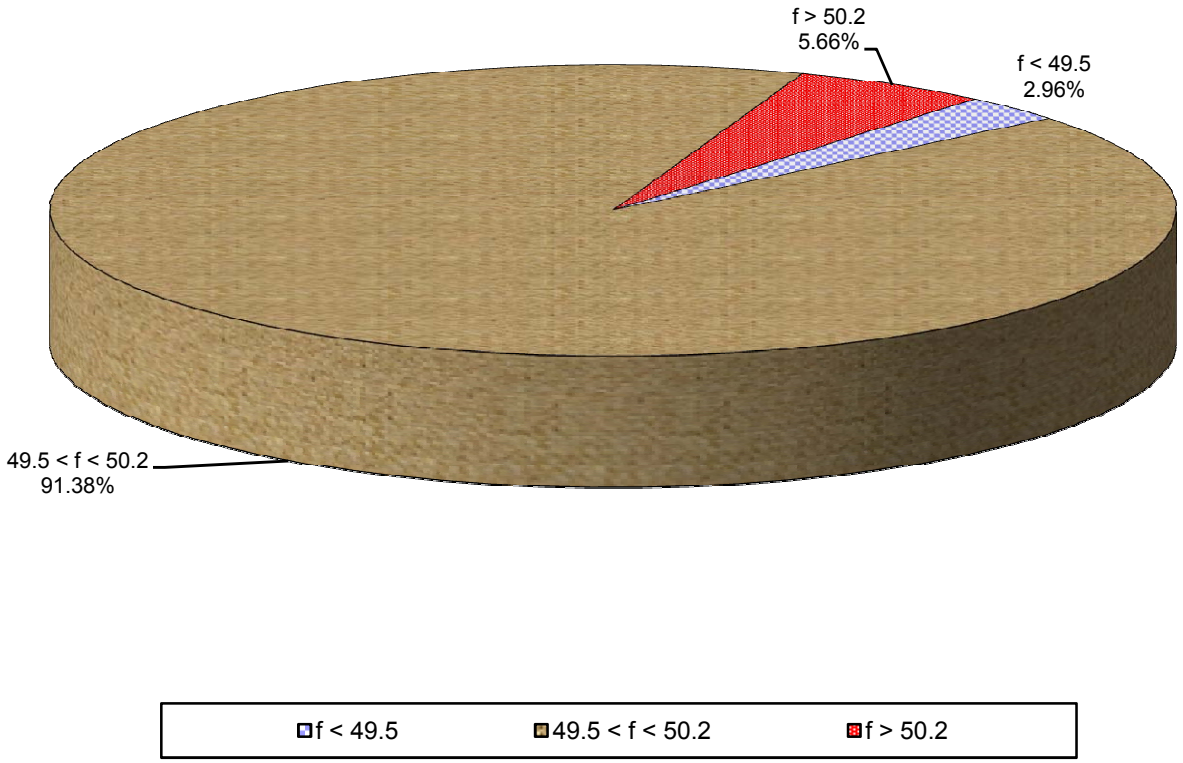


Exhibit-II

FVI Characteristics for October, 2011

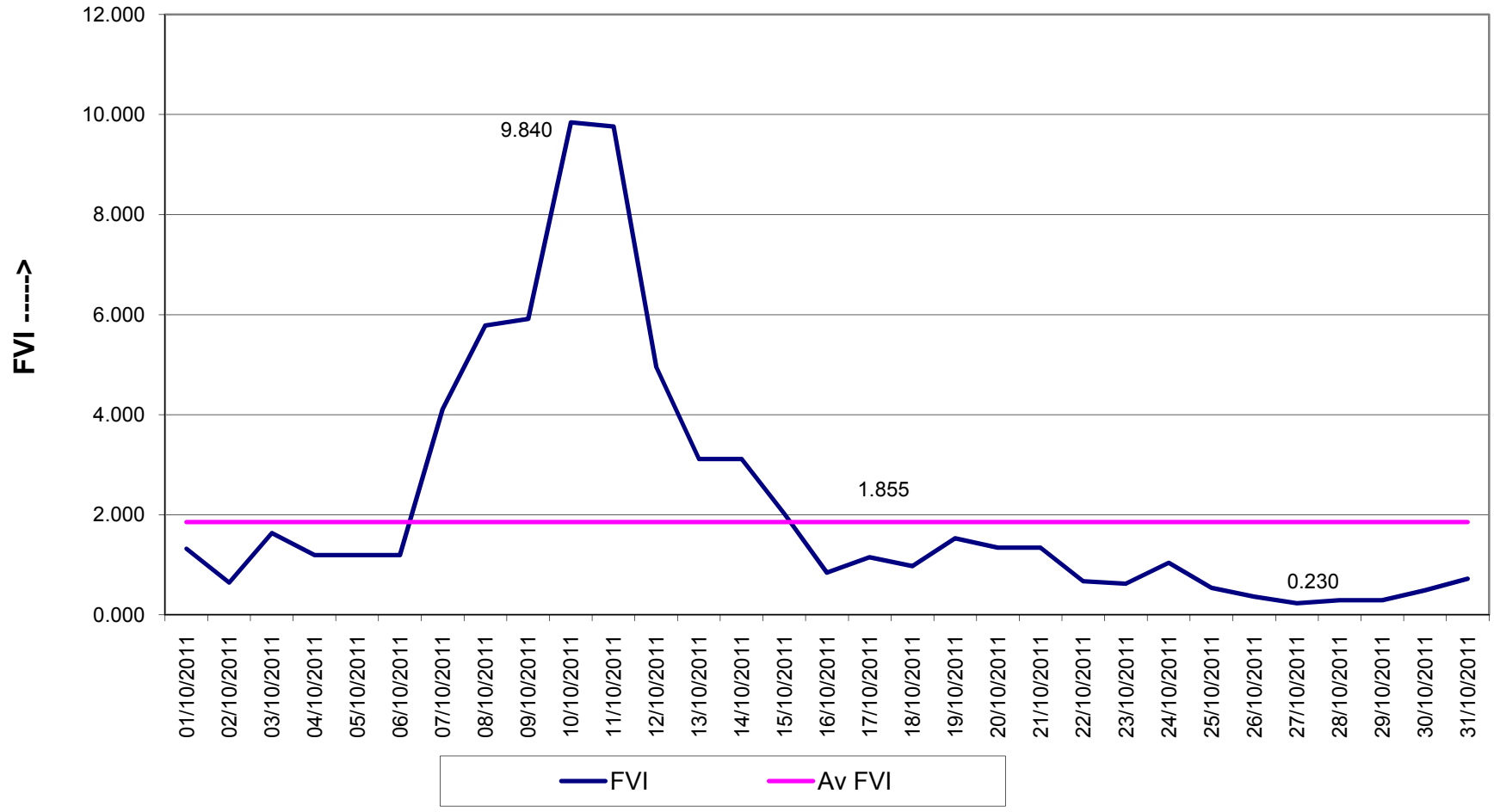


Exhibit-III

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

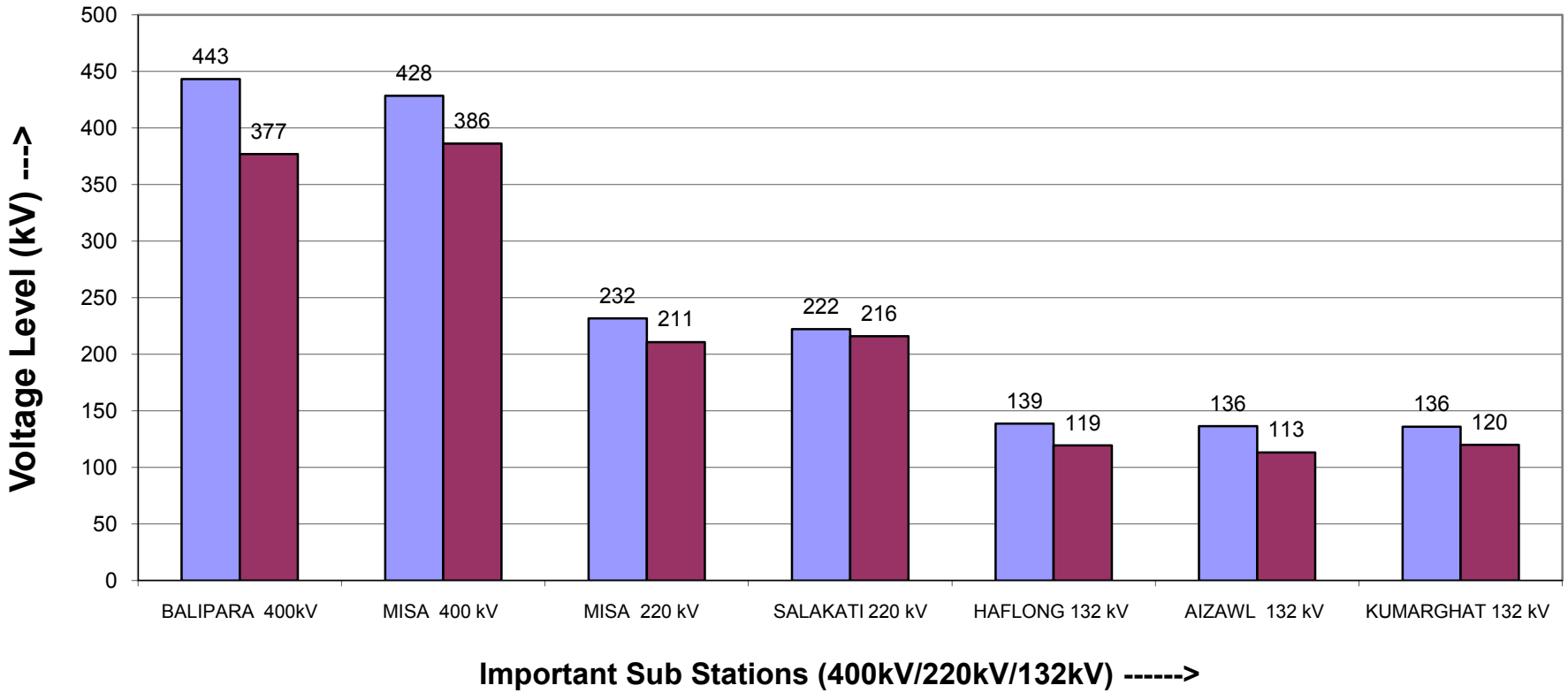


Exhibit-IV

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

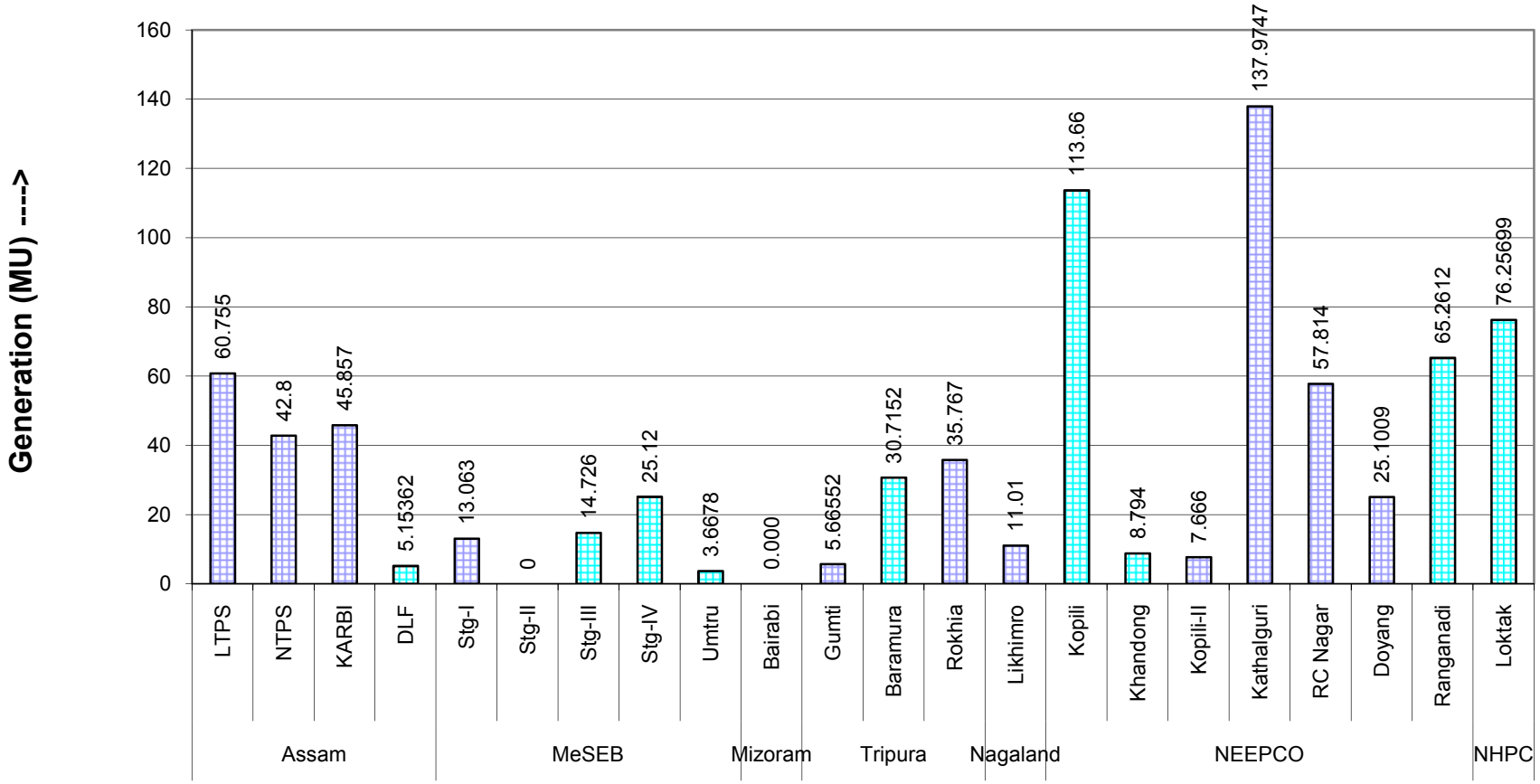


Exhibit-V

NER States Energy Scenario in October, 2011

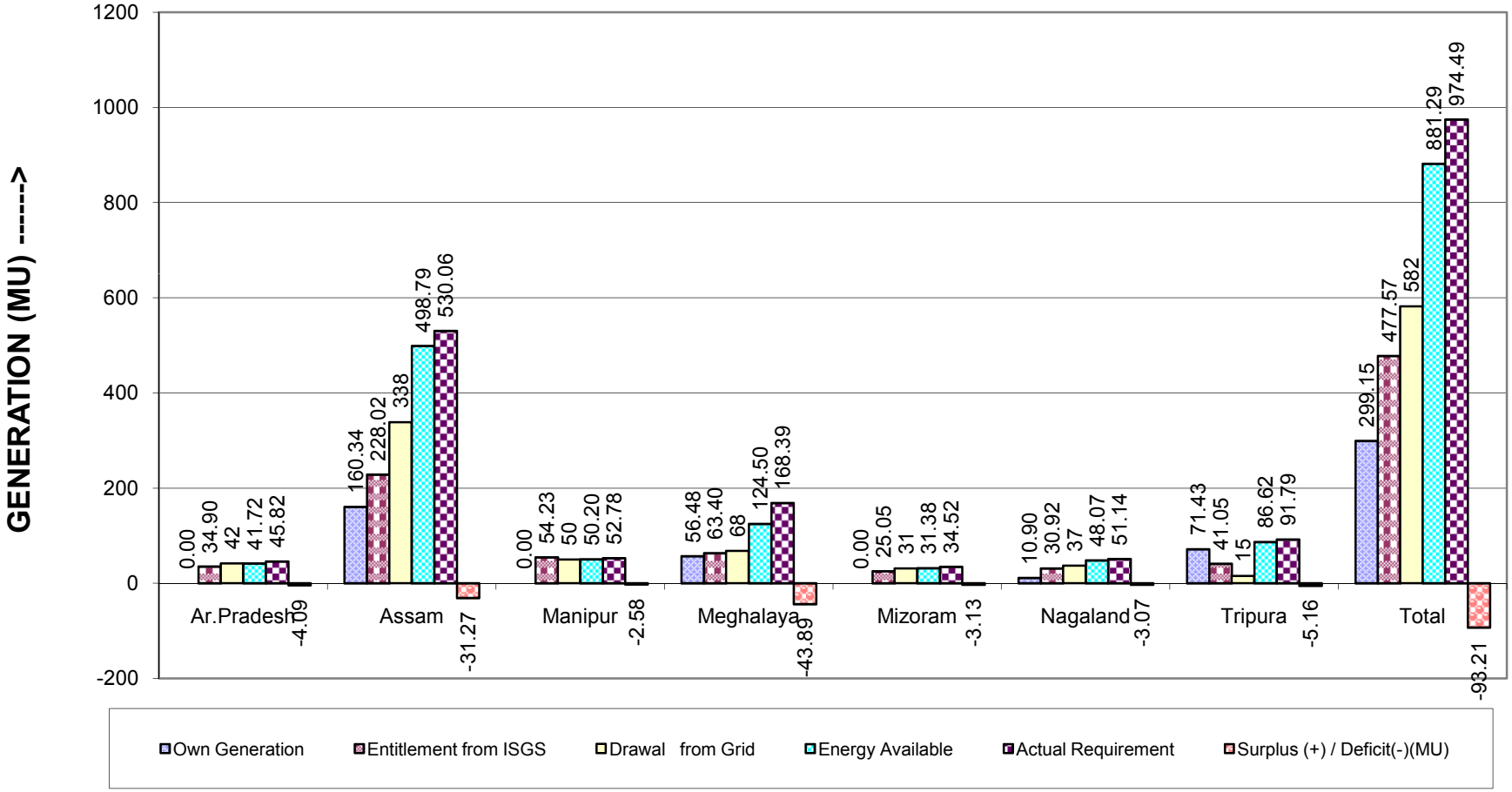


Exhibit-VI

Reservoir Statistics of NER in October, 2011