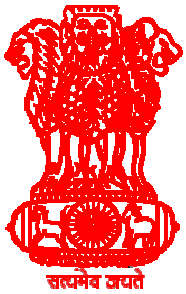


भारत सरकार Government of India
विद्युत मंत्रालय Ministry of Power
केंद्रीय विद्युत प्राधिकरण
Central Electricity Authority

उत्तर पूर्वी क्षेत्रीय विद्युत समिति
North Eastern Regional Power Committee

शिलोंग Shillong

Progress Report

For the month of

September, 2010

CONTENTS

NORTH EASTERN REGIONAL POWER COMMITTEE

Brief highlights of North Eastern Regional Power System for the month of September, 2010

The maximum unrestricted demand during the month of September, 2010 was 1844 MW, which was 1754 MW in the month of August, 2010. The peak demand met in NER during the period under review was 1509 MW, which was 1465 MW last month.

The maximum, minimum & average system frequency were 50.79, 48.76 & 49.98 Hz respectively. The maximum, minimum & average FVI were 1.360, 0.160 & 0.449 respectively. The average FVI was less than its previous month's figure. (refer Annex-II).

Maximum export of power from NER to ER was 486 MW (on 22/09/10 at 15:00 hrs) and that from ER to NER was 231 MW (14/09/10 at 19:00 hrs). Total net energy export during the month was 100.028 MU (to ER).

SALIENT FEATURES OF
NORTH EASTERN REGIONAL GRID FOR SEPTEMBER, 2010

1	New unit/ transmission lines/Transformers commissioned during this month		**50 MVA, 220/132 kV, TRX at Samaguri (ASEB)**	
2	Number of total grid disturbance during this month		Nil	
			Sep-10	**Sep-09**
3	**Installed Capacity** of the Region (in MW)(grid)		2054.12	2033.12
4	**Energy Generation in MU (Gross)::**			
	Thermal		364.369	349.012
	Hydel		592.520	486.944
	Diesel / Oil		0.000	0.000
	Total		956.889	835.956
5	**Demand in MW ::**			
	Registered Peak demand		1844.00	1671.53
	Peak demand met		1509.00	1383.00
	Shortage (% age)		-18.17	-17.26
6	**Regional Energy(Gross) in MU ::**			
	Energy requirement		910.91	878.63
	Energy availability		815.61	768.64
	Surplus (+) / Deficit (-) (% age)		-10.46	-12.52
7	**Inter Regional Energy Exchange in MU ::**			
	NER ----> ER		146.785	83.974
	ER ----> NER		46.757	44.978
	Net Export		100.028	39.00
8	**Frequency profile ::**			
	Average frequency (Hz)		49.98	49.59
	Average Frequency Variation Index		0.449	2.983
9	Load Factor (in %)		61.43	63.87

ENERGY GENERATION IN THE REGION FOR THE MONTH OF Sep-10

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	48.380	47.896	0.000	0.000	65.690	65.033	41.270	40.032	155.340	152.961
Meghalaya	47.480	47.005	0.000	0.000	0.000	0.000	0.000	0.000	47.480	47.005
Mizoram	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tripura	4.080	4.039	0.000	0.000	54.649	54.103	0.000	0.000	58.729	58.142
Nagaland	8.500	8.415	0.000	0.000	0.000	0.000	0.000	0.000	8.500	8.415
Total (State Sector)									**270.049**	**266.523**
Central Sector :										
NEEPCO :										
Khd+Kop+Kop-II	153.470	151.935	0.000	0.000	0.000	0.000	0.000	0.000	153.470	151.935
K'guri	0	0	0.000	0.000	0	0	149.530	145.044	149.530	145.044
RCNagar	0	0	0	0	45.890	45.431	0	0	45.890	45.431
Doyang	52.240	51.718	0	0	0	0	0	0	52.240	51.718
Ranganadi	215.100	212.949	0	0	0	0	0	0	215.100	212.949
NHPC :										
Loktak	63.270	62.637	0.000	0.000	0.000	0.000	0.000	0.000	63.270	62.637
Total (Central Sector)									679.500	669.714
Total NER	592.520	586.595	0.000	0.000	166.229	164.567	190.800	185.076	**949.549**	**936.238**

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.	44.33	37.25	7.08	15.98%	95	72	23	24.40%
Assam	516.88	469.42	47.46	9.18%	971	843	128	13.15%
Manipur	49.11	44.77	4.34	8.83%	118	105	13	11.28%
M'laya	142.58	125.45	17.13	12.01%	279	212	67	24.14%
Mizoram	28.26	23.07	5.18	18.35%	75	56	19	25.73%
Nagaland	50.15	45.07	5.09	10.14%	119	95	24	20.47%
Tripura	79.60	70.58	9.02	11.33%	190	174	16	8.60%
REGION	910.91	815.61	95.30	10.46%	1844	1509	335	18.16%

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	72.00	14/09/2010	49.89	0.24	23	95.24
Assam	843.00	22/09/2010	50.29	-7.33	135	970.67
Manipur	105.00	14/09/2010	49.89	0.35	13	118.35
Meghalaya	212.00	04/09/2010	49.61	2.48	65	279.48
Mizoram	56.00	07/09/2010	49.76	0.40	19	75.40
Nagaland	95.00	23/09/2010	49.49	1.45	23	119.45
Tripura	174.00	17/09/2010	50.12	-0.63	17	190.37
REGION	1509.00	22/09/2010	50.29	-13.13	348	1843.87

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

ESTIMATION OF ENERGY REQUIREMENT (in MU)

Average Frequency 49.98 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	64.159	2.263	37.246	-29.176	37.246	0.022	7.06	44.328
Assam	152.961	315.779	69.930	316.462	-69.248	469.423	0.282	47.18	516.885
Manipur	0.000	66.846	0.000	44.770	-22.075	44.770	0.027	4.31	49.107
M'laya	47.005	85.052	18.847	78.447	-25.452	125.452	0.075	17.05	142.577
Mizoram	0.000	35.605	0.000	23.071	-12.533	23.071	0.014	5.17	28.255
Nagaland	8.415	44.825	7.446	36.652	-15.619	45.067	0.027	5.06	50.154
Tripura	58.142	54.367	0.000	12.436	-41.931	70.578	0.042	8.98	79.600
REGION	266.523	666.632	98.487	549.084	-216.034	815.608	0.489	94.81	910.907

*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)	
				Sep-10	Sep-09
	STATE SECTOR : HYDRO				
	ASSAM :: HYDRO				
1	KARBI HEP U - 1	50.00	50.00	12.970	31.570
2	KARBI HEP U - 2	50.00	50.00	35.410	33.660
	TOTAL	100.00		48.38	65.230
	MEGHALAYA :: HYDRO				
1	STAGE - 1	36.00	27.00	4.010	15.800
2	STAGE - 2	18.00	12.50	16.140	7.160
3	STAGE - 3	60.00	47.20	27.090	17.990
4	STAGE - 4	60.00	60.60	0.240	27.540
5	UMTRU	11.20	2.90	0.000	5.660
	TOTAL	185.20		47.480	74.150
	NAGALAND :: HYDRO				
6 7 8	LIKIMRO - 1 LIKIMRO - 2 LIKIMRO - 3	24.00	15.00	8.500	11.433
	TOTAL	24.00		8.500	11.433
	TRIPURA :: HYDRO				
9	GUMTI - 1	5.00	Gumti Stn. Peak =8 MW	0.000	0.000
10	GUMTI - 2	5.00		2.020	2.860
11	GUMTI - 3	5.00		2.060	2.851
	TOTAL	15.00		4.080	5.711
TOTAL STATE (HYDRO) :		324.20		108.440	156.524

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)	
				Sep-10	Sep-09
	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		14.400	14.160
5	BARAMURA - 5	21.00		12.000	0.000
6	ROKHIA - 1	8.00	Rokhia Stn. Peak = 56.8 MW	0.000	0.000
7	ROKHIA - 2	8.00		0.000	0.000
8	ROKHIA - 3	8.00		5.980	3.520
9	ROKHIA - 4	8.00		4.560	1.710
10	ROKHIA - 5	8.00		0.000	0.000
11	ROKHIA - 6	8.00		0.000	0.000
12	ROKHIA - 7	21.00		9.954	14.212
13	ROKHIA - 8	21.00		15.095	14.650
	TOTAL	148.50		61.989	48.252
	ASSAM :: THERMAL				
1	LTPS - 1	15.00	LTPS Stn. Peak = 104.3 MW	7.980	7.840
2	LTPS - 2	15.00		8.060	8.750
3	LTPS - 3	15.00		10.110	9.570
4	LTPS - 4	15.00		0.420	8.670
5	LTPS - 5	20.00		8.360	0.000
6	LTPS - 6	20.00		14.640	12.310
7	LTPS - 7	20.00		12.090	10.480
8	NTPS - 1	20.00	NTPS Stn. Peak = 88.6 MW	13.200	13.180
9	NTPS - 2	21.00		13.080	11.630
10	NTPS - 3	21.00		0.000	8.540
11	NTPS - 4	11.00		6.200	6.880
12	NTPS - 5	22.00		0.310	0.000
13	NTPS - 6	22.00		8.480	7.840
14	DLF	24.50		4.030	6.970
	TOTAL	261.50		106.960	112.660
TOTAL STATE THERMAL/GAS :		432.92		168.949	160.912
TOTAL SC GEN(HY+TH/GAS)		**757.12**		**277.389**	**317.436**

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)	
				Sep-10	Sep-09
	CENTRAL SECTOR : HYDRO				
1	KHANDONG - 1	25.00	25.00	16.020	11.640
2	KHANDONG - 2	25.00	25.00	15.790	11.480
3	KOPILI Stg - II	25.00	25.00	15.750	13.700
4	KOPILI - 1	50.00	50.00	35.540	30.080
5	KOPILI - 2	50.00	0.00	0.000	32.810
6	KOPILI - 3	50.00	50.00	35.320	0.000
7	KOPILI - 4	50.00	50.00	35.050	33.140
8	DOYANG -1	25.00	Doyang Stn. Peak = 73 MW	17.510	17.710
9	DOYANG -2	25.00		17.140	0.000
10	DOYANG -3	25.00		17.590	18.070
11	LOKTAK - 1	35.00	Loktak Stn. Peak = 100 MW	16.720	16.430
12	LOKTAK - 2	35.00		24.400	22.280
13	LOKTAK - 3	35.00		22.150	17.690
14	RANGANADI - 1	135.00	Ranganadi Stn. Peak =405 MW	77.830	30.280
15	RANGANADI - 2	135.00		53.940	37.420
16	RANGANADI - 3	135.00		83.330	37.690
	TOTAL HYDRO :	**860.00**		**484.080**	**330.420**
	CENTRAL SECTOR : THERMAL/GAS				
1	KATHALGURI - 1	33.50	Kathalguri Stn. Peak = 263 MW	12.090	20.170
2	KATHALGURI - 2	33.50		19.920	20.040
3	KATHALGURI - 3	33.50		20.040	20.950
4	KATHALGURI - 4	33.50		15.820	19.840
5	KATHALGURI - 5	33.50		20.200	4.170
6	KATHALGURI - 6	33.50		20.540	10.610
7	KATHALGURI - 7	30.00		11.410	16.650
8	KATHALGURI - 8	30.00		13.890	16.670
9	KATHALGURI - 9	30.00		15.620	4.550
10	R.C.NAGAR - 1	21.00	RC Nagar Stn. Peak = 80 MW	11.390	13.626
11	R.C.NAGAR - 2	21.00		5.620	13.560
12	R.C.NAGAR - 3	21.00		14.070	12.923
13	R.C.NAGAR - 4	21.00		14.810	14.341
TOTAL THERMAL/GAS :		375.00		195.420	188.100
TOTAL CS (HY + TH/GAS) :		1235.000		679.500	518.520
TOTAL NER GEN(HY+TH/GAS) :		**1992.120**		**956.889**	**835.956**

Plant Load Factor (PLF) and Voltage Profile : Sep-10

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	61.660	71.37
2	NTPS*	AEGCL	117.00	41.270	48.99
3	Baramura	Tripura	58.50	26.400	62.68
4	Rokhia	Tripura	90.00	35.589	54.92
5	AGBPP	NEEPCO	291.00	149.530	71.37
6	AGTPP	NEEPCO	84.00	45.890	**75.88**
7	Bairabi	Mizoram	22.92	0.000	0.00

*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	424	395
2	MISA 400 kV	426	395
3	MISA 220 kV	232	217
4	SALAKATI 220 kV	232	212
5	HAFLONG 132 kV	138	119
6	AIZAWL 132kV	137	123
7	KUMARGHAT 132kV	136	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	0.07	0.01	95.56	4.36
BALIPARA	0.12	6.28	93.41	0.19

1 **INTER - REGIONAL EXCHANGE :**

All Fig in MU

NER to ER	146.785
ER to NER	46.757
NET EXPORT	100.028

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

3	**MEETING HELD BY NERPC DURING THIS MONTH**	1. 54th OCC Meeting was held on 14.09.10 at NERLDC, conference hall, Shillong.

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

Name of the line	Length	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 Sep-10

Organisation	Actual (MU)	Schedule (MU)	UI Energy (MU)	UI Receivable (Rs. in Lakhs)	UI Payable (Rs. in Lakhs)
Arunachal Pradesh	37.246	53.467	-16.221	224.46	3.55
ASEB	316.462	366.216	-49.754	697.21	7.72
Manipur	44.770	68.362	-23.591	374.69	0.53
MeSEB	78.447	80.186	-1.739	76.44	4.33
Mizoram	23.071	26.161	-3.090	48.40	2.19
Nagaland	36.652	42.839	-6.186	78.74	12.52
Tripura	12.436	15.628	-3.191	59.72	19.44

Entitlement, Schedule, Drawal and UI Charges Sep-10

	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	64.159	64.180	53.467	37.246	-16.221	2.209
ASEB	315.779	315.676	366.216	316.462	-49.754	6.895
Manipur	66.846	66.859	68.362	44.770	-23.591	3.742
MeSEB	85.052	85.052	80.186	78.447	-1.739	0.721
Mizoram	35.605	35.603	26.161	23.071	-3.090	0.462
Nagaland	44.825	44.811	42.839	36.652	-6.186	0.662
Tripura	54.367	54.450	15.628	12.436	-3.191	0.403

(Source : UI A/c, NERPC)

Schedule for ISGS's Generation and State's Drawl for the month of Sep-10

States	Schedule From ISGS(MWH)	Bilateral Schedule from Outside NER (MWH)	Total Schedule (MWH)	Ex.PP. Drawal (MWH)	Tr. Energy (MWH)
Arunachal Pradesh	64157.03	2334.63	66491.65	38762.71	66491.65
ASEB	315759.16	72131.850000	387891.01	327934.79	387891.01
Manipur	66842.60		66842.60	46530.92	66842.60
MeSEB	85047.36	19436.450000	104483.81	81536.44	104483.81
Mizoram	35602.55		35602.55	24004.70	35602.55
Nagaland	44822.47	7681.13	52503.60	37555.77	52503.60
Tripura	54363.95		54363.95	12497.57	54363.95
Total	666595.12	101584.05	768179.17	568822.90	768179.17

ISGS	Schedule (MWH)	Injection (MWH)
LOKTAK	62231.04	62374.21
KHANDONG	32186.21	31960.13
KOPILI-I	104375.59	104620.17
KOPILI-II	15328.15	15389.99
DHEP	51097.73	51059.22
RHEP	209715.75	212443.33
AGTPP	44624.05	44891.60
AGBPP	147036.61	146112.69
Total	666595.12	668851.35

Source : Provisional REA for the month: Sep-10

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	5.193	6.193	4.192	18.462	6.882	5.693	6.180	4.942
Assam	53.455	46.615	56.277	43.328	43.742	56.465	45.178	29.415
Manipur	7.385	7.225	6.565	8.373	7.893	8.125	8.143	30.115
Meghalaya	17.150	18.650	16.650	11.250	11.230	11.550	11.340	12.140
Mizoram	4.619	6.278	3.940	5.710	5.240	5.429	6.190	5.068
Nagaland	6.155	5.656	6.653	5.335	17.935	5.805	5.607	6.427
Tripura	6.043	9.383	5.723	7.542	7.078	6.933	17.362	11.893
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

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

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

HOURLY DATA ON PEAK DEMAND MET DAY

DATE:- 22.09.2010

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	839.12	187	472.61	660.0	77	198.3	120.84	106	139.9	33.50	32.72	24.84	35.26	49.92	-48.23	1210.31	1140.88	1162.12	21.2	817.88
2	837.38	187	435.38	622.7	77	198.8	121.35	107	136.4	29.55	25.28	23.08	35.39	50.41	-95.46	1208.94	1092.00	1113.53	21.5	815.85
3	842.71	187	409.07	596.4	67	211.4	144.89	107	131.3	24.52	32.39	22.44	34.34	49.06	-107.41	1203.37	1077.38	1096.00	18.6	824.08
4	814.57	187	387.90	575.2	54	199.4	145.78	107	130.8	24.15	30.34	22.12	34.26	48.25	-111.50	1162.26	1040.47	1050.80	10.3	804.24
5	819.13	187	351.78	539.1	54	199.5	145.77	106	122.2	15.88	35.27	22.36	38.97	45.20	-145.44	1166.50	1002.61	1021.10	18.5	800.64
6	832.31	187	302.27	489.6	54	180.0	126.23	107	108.4	1.65	62.81	31.61	52.06	48.07	-199.49	1180.26	972.65	980.81	8.2	824.15
7	857.90	187	296.02	483.4	67	206.8	139.60	105	107.7	2.71	71.13	44.52	59.55	56.46	-174.56	1217.46	1029.54	1042.94	13.4	844.51
8	853.01	187	313.88	501.2	67	211.3	143.91	105	115.0	10.31	80.57	48.14	58.20	58.29	-113.89	1212.47	1072.75	1098.62	25.9	827.14
9	851.45	187	326.54	513.9	91	247.0	155.64	105	117.6	12.58	76.02	40.97	52.42	60.16	-113.62	1235.20	1108.08	1121.62	13.5	837.91
10	973.44	187	340.82	528.2	67	207.7	140.39	105	117.1	12.23	57.55	33.08	45.88	52.47	-265.25	1332.94	1041.92	1067.73	25.8	947.64
11	946.85	188	337.01	524.7	60	207.3	147.65	101	105.8	4.78	52.68	30.96	46.00	54.55	-254.99	1295.23	1022.02	1040.29	18.3	928.58
12	941.07	188	357.99	545.7	54	193.3	139.04	101	129.1	28.05	55.78	32.96	45.76	51.02	-207.14	1284.06	1053.59	1076.95	23.4	917.71
13	820.60	188	369.19	556.9	60	187.0	127.18	101	125.8	24.86	53.37	31.26	47.18	53.24	-97.12	1168.98	1054.68	1071.90	17.2	803.37
14	835.05	188	384.49	572.2	60	126.9	66.91	100	125.4	25.25	78.72	32.54	51.93	49.32	-135.68	1182.85	1036.96	1047.21	10.2	824.80
15	815.46	187	381.22	568.6	60	191.3	131.09	101	137.1	36.52	78.07	38.38	49.60	51.41	-27.62	1163.59	1114.42	1136.01	21.6	793.87
16	805.44	187	364.89	552.2	60	181.1	120.95	100	142.8	42.60	77.27	43.50	54.49	52.83	-29.69	1153.18	1104.28	1123.53	19.3	786.19
17	820.55	187	352.31	539.6	66	158.2	91.92	100	122.4	22.02	71.04	45.45	57.04	59.77	-106.09	1174.53	1053.52	1068.53	15.0	805.54
18	935.03	187	374.59	561.9	89	150.5	61.79	103	155.3	52.03	69.62	49.87	69.95	63.74	-180.79	1314.30	1120.86	1133.59	12.7	922.29
19	941.37	187	571.44	758.8	118	208.1	89.84	102	168.0	66.11	74.44	55.07	80.52	78.76	109.62	1348.90	1423.69	1458.60	34.9	906.46
20	1013.26	188	591.61	779.3	124	201.7	77.92	102	167.0	65.32	88.50	52.69	73.49	79.77	43.82	1426.41	1442.44	1470.31	27.9	985.39
21	984.47	187	591.17	778.5	124	210.1	86.08	101	164.6	63.40	82.86	48.27	70.09	75.15	48.78	1396.95	1429.50	1445.82	16.3	968.15
22	960.67	187	571.40	758.7	118	195.7	77.28	103	147.2	44.51	77.93	40.59	63.37	73.23	13.55	1369.14	1356.76	1382.77	26.0	934.66
23	974.31	188	518.14	705.8	87	184.6	97.94	104	148.9	44.51	74.66	31.02	51.27	52.78	-74.27	1353.04	1249.04	1278.80	29.8	944.55
24	845.69	188	451.56	639.3	72	170.9	99.34	106	148.8	43.14	61.62	25.23	44.53	49.94	-44.45	1210.60	1140.28	1166.19	25.9	819.77
Max	1013.26	188	591.61	779.32	124	247.0	155.64	107	168.0	66.11	88.50	55.07	80.52	79.77	109.62	1426.41	1442.44	1470.31	34.9	985.39
Min	805.44	187	296.02	483.36	54	126.9	61.79	100	105.8	1.65	25.28	22.12	34.26	45.20	-265.25	1153.18	972.65	980.81	8.2	786.19

HOURLY DATA ON MINIMUM DEMAND MET DAY

DATE: 20.09.2010

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	763.82	188	709.4	521.70	84	135.2	51.37	105	23.06	128.36	22.33	15.84	55.88	48.21	-8.64	1140.7	1115.3	1132.13	16.9	746.97
2	743.76	188	648.9	460.79	84	163.3	79.32	103	19.22	122.67	23.60	16.29	53.44	46.77	-15.16	1119.3	1075.0	1104.21	29.2	714.52
3	742.45	188	623.0	434.91	85	228.5	143.47	103	17.05	120.34	25.55	15.80	53.49	47.94	34.58	1118.9	1114.6	1153.50	38.9	703.56
4	766.98	188	596.5	408.40	72	186.1	114.10	104	14.05	117.78	21.57	16.23	50.36	48.72	-69.72	1130.8	1037.2	1061.12	23.9	743.08
5	781.41	188	531.4	343.31	72	188.4	116.50	104	9.06	112.65	24.94	17.48	56.48	49.55	-121.72	1145.0	980.9	1023.34	42.4	738.98
6	769.05	188	514.0	325.90	72	188.3	116.50	104	-0.75	102.88	58.24	27.09	64.49	57.17	-71.09	1132.6	1012.2	1047.01	34.8	734.23
7	764.67	188	510.4	322.34	85	214.8	129.87	103	13.77	116.43	59.70	37.80	66.06	60.35	-42.04	1140.3	1065.5	1098.31	32.8	731.88
8	865.92	188	524.4	336.29	85	216.7	132.06	103	10.66	113.20	69.09	38.28	63.94	61.19	-125.93	1241.2	1086.7	1115.30	28.6	837.37
9	871.20	188	516.3	328.18	85	223.1	138.29	104	11.23	114.99	62.90	28.99	54.02	50.20	-165.16	1247.8	1050.4	1082.71	32.3	838.91
10	869.50	188	498.2	310.11	61	190.1	129.38	104	5.63	109.43	57.25	27.19	46.92	48.04	-180.83	1222.1	977.1	1041.34	64.2	805.28
11	867.87	187	506.2	318.84	74	208.9	134.49	104	7.56	111.12	45.29	25.98	46.12	49.71	-180.04	1233.2	993.3	1053.25	59.9	807.96
12	861.65	187	547.8	360.50	95	217.5	122.88	104	8.03	112.04	48.85	29.09	41.46	39.92	-166.23	1247.6	1036.7	1081.45	44.8	816.89
13	754.73	187	564.6	377.21	78	184.9	106.84	105	7.01	111.53	51.55	29.36	47.71	45.64	-70.59	1124.6	1035.2	1054.11	18.9	735.86
14	758.52	187	525.0	337.61	100	200.8	100.57	103	8.93	112.00	70.53	29.22	54.85	43.09	-42.13	1149.1	1035.4	1107.05	71.7	686.87
15	765.52	188	616.8	429.05	98	208.9	110.75	103	12.08	114.64	75.03	36.58	65.21	42.55	7.83	1154.0	1159.7	1161.88	2.2	763.34
16	760.84	188	628.3	440.24	99	213.1	114.46	101	5.07	106.46	75.41	42.74	62.03	46.74	54.38	1148.9	1174.7	1203.35	28.6	732.23
17	996.76	188	626.5	438.39	80	200.2	120.28	101	7.62	108.18	76.38	44.16	72.98	61.97	-119.70	1365.3	1190.3	1245.71	55.4	941.37
18	1073.38	188	684.0	496.28	92	167.0	75.23	100	44.29	144.02	57.93	50.03	67.40	75.90	-166.87	1452.6	1246.2	1285.81	39.6	1033.80
19	1057.57	187	743.1	555.80	111	195.7	84.74	99	68.41	166.99	80.20	52.52	81.57	83.20	-9.59	1454.5	1403.3	1444.99	41.7	1015.90
20	801.03	188	702.5	514.44	122	210.5	88.78	101	53.88	155.07	85.23	51.87	70.57	20.51	35.07	1212.1	1296.3	1247.25	-49.0	850.07
21	981.21	187	665.0	477.70	128	208.5	80.62	103	55.51	158.20	86.70	46.45	74.61	65.33	-9.29	1399.2	1304.9	1390.01	85.1	896.10
22	1059.11	187	690.7	503.33	118	186.9	68.47	104	51.51	155.29	83.17	38.43	60.44	75.08	-153.60	1468.6	1290.0	1315.17	25.2	1033.90
23	1057.29	187	735.4	548.08	107	188.7	81.24	104	57.16	161.04	73.26	30.89	51.36	54.20	-125.68	1455.9	1294.8	1330.31	35.5	1021.81
24	1052.38	187	692.5	505.18	71	157.9	86.58	105	47.21	152.03	62.77	23.75	44.31	52.94	-207.40	1415.9	1186.3	1208.58	22.3	1030.07
Max	1073.38	188	743.1	555.80	128	228.5	143.47	105	68.41	166.99	86.70	52.52	81.57	83.20	54.38	1468.6	1403.3	1444.99	85.1	1033.90
Min	742.45	187	498.2	310.11	61	135.2	51.37	99	-0.75	102.88	21.57	15.80	41.46	20.51	-207.40	1118.9	977.1	1023.34	-49.0	686.87

ANNEXURES
&
EXHIBITS

Annexure-I

RESERVOIR PARTICULARS OF THE MONTH : **Sep-10**

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	719.65	25.00	720.10	27.00
KOPILI	609.5 M	592.83 M	609.30	98.20	609.11	98.20
LOKTAK	768.5 M	766.2 M	768.60	250.00	768.78	250.00
BARAPANI	3220 Ft	3150 Ft	3209.05	37.80	3211.01	40.00
GUMTI	93.55 M	83.6 M	90.10	15.40	90.35	15.40
DOYANG	333 M	306 M	324.30	36.50	323.20	33.50

Annexure-II

FREQUENCY ANALYSIS FOR THE MONTH OF : **Sep-10**

Frequency	(Freq.in Hz)	(Time: H:M)	(Date:D.M.Y)
1. Maximum frequency	50.79	14:08	12.09.10
2. Minimum frequency	48.76	18:40	30.09.10
3. Monthly average	49.98		

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

f < 49.5	49.5 < f < 50.2	f >50.2
1.77	86.52	11.71

Daily Frequency Variation Index :

DATE	FVI	DATE	FVI
1-Sep-10	0.310	17-Sep-10	0.610
2-Sep-10	0.330	18-Sep-10	0.540
3-Sep-10	0.330	19-Sep-10	0.210
4-Sep-10	0.260	20-Sep-10	0.780
5-Sep-10	0.359	21-Sep-10	0.450
6-Sep-10	1.010	22-Sep-10	**0.160**
7-Sep-10	0.820	23-Sep-10	0.420
8-Sep-10	0.460	24-Sep-10	0.420
9-Sep-10	0.430	25-Sep-10	0.310
10-Sep-10	0.320	26-Sep-10	0.215
11-Sep-10	0.440	27-Sep-10	0.360
12-Sep-10	**1.360**	28-Sep-10	0.240
13-Sep-10	0.400	29-Sep-10	0.185
14-Sep-10	0.420	30-Sep-10	0.510
15-Sep-10	0.430		
16-Sep-10	0.370	**Average FVI**	**0.449**

Annexure-III

Details of Scheduled Bilateral Exchanges within the Region in **Sep-10**

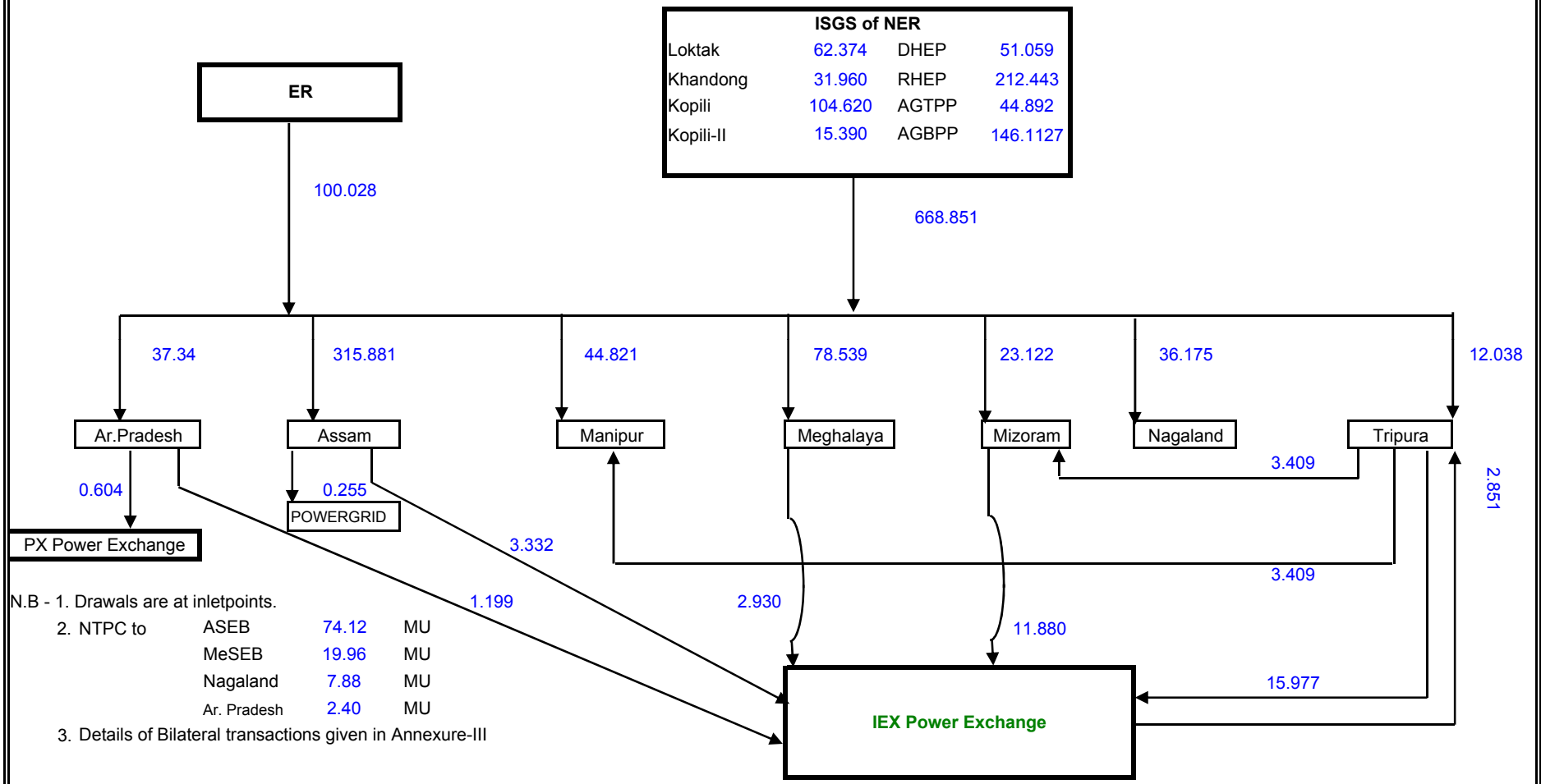
Sl.No.	From	To	Energy (At Seller Injn. Point) (MWH)		Energy (At State Periphery) (MWH)
1	Tripura(Baramura)	Manipur	3408.750000		3304.579500
2	Tripura(Baramura)	Mizoram	3408.750000		3304.579500
3	ASEB	POWERGRID^	254.731850	^ The actual energy consumed by POWERGRID	

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	Ar. Pradesh	BRPL (AP)	9400.000000	9113.070000	
2	APDCL	WBSEDCL (NVVN)	1440.000000	1395.360000	
3	APDCL	WBSEDCL (NVVN)	4320.000000	4186.080000	
4	MeECL	NDPL (NVVN)	7200.000000	6979.920000	
5	MeECL	NDPL (NVVN)	9600.000000	9306.560000	
6	Nag	BRPL(Nag)	7920.000000	7681.440000	
7	TSECL	NDPL (NVVN)	10800.000000	10469.880000	
8	TSECL	MSEDCL (NVVN)	6960.000000	6749.820000	
9	Farakka*	Ar. Pradesh	1417.715625	1376.575000	1334.472225
10	Kahalgaon 1*	Ar. Pradesh	553.868000	531.725000	515.488300
11	Talcher*	Ar. Pradesh	433.355625	426.325000	413.219300
12	Farakka*	Assam	25356.982000	24684.575000	23929.645025
13	Kahalgaon 1*	Assam	6988.857500	6807.350000	6599.617250
14	Kahalgaon 2*	Assam	35975.018750	34996.425000	33931.158450
15	Talcher*	Assam	5795.703750	5643.500000	5470.018950
16	Farakka*	MeECL	4158.632500	4053.425000	3929.462300
17	Kahalgaon 1*	MeECL	1661.604000	1615.125000	1565.829400
18	Kahalgaon 2*	MeECL	11375.500000	11069.100000	10732.166950
19	Talcher*	MeECL	2766.781700	2698.800000	2619.534600
20	Farakka*	Nagaland	4574.576000	4460.650000	4324.229050
21	Kahalgaon 1*	Nagaland	1907.788200	1858.825000	1802.104000
22	Talcher*	Nagaland	1401.932500	1361.650000	1319.794675
	Bilateral exchange through IEX Power Exchange (-ve means injection, +ve means drawal)				
23	Arunachal Pradesh		-1198.510000	-1162.000000	
24	Assam		-3331.900000	-3230.960000	
25	MeECL		-2929.600000	-2839.960000	
26	Mizoram		-11879.880000	-11517.000000	
27	Tripura		-15977.360000	-15487.120000	
28	Tripura			2940.000000	2850.770000
	Bilateral exchange through PX Power Exchange (-ve means injection, +ve means drawal)				
29	Arunachal Pradesh		-603.570000	-585.000000	

Annexure-IV

ENERGY EXCHANGE(in MU) IN NER DURING September, 2010



N.B - 1. Drawals are at inletpoints.

2. NTPC to

ASEB	74.12	MU
MeSEB	19.96	MU
Nagaland	7.88	MU
Ar. Pradesh	2.40	MU

3. Details of Bilateral transactions given in Annexure-III

Exhibit-I

Frequency Duration for September, 2010

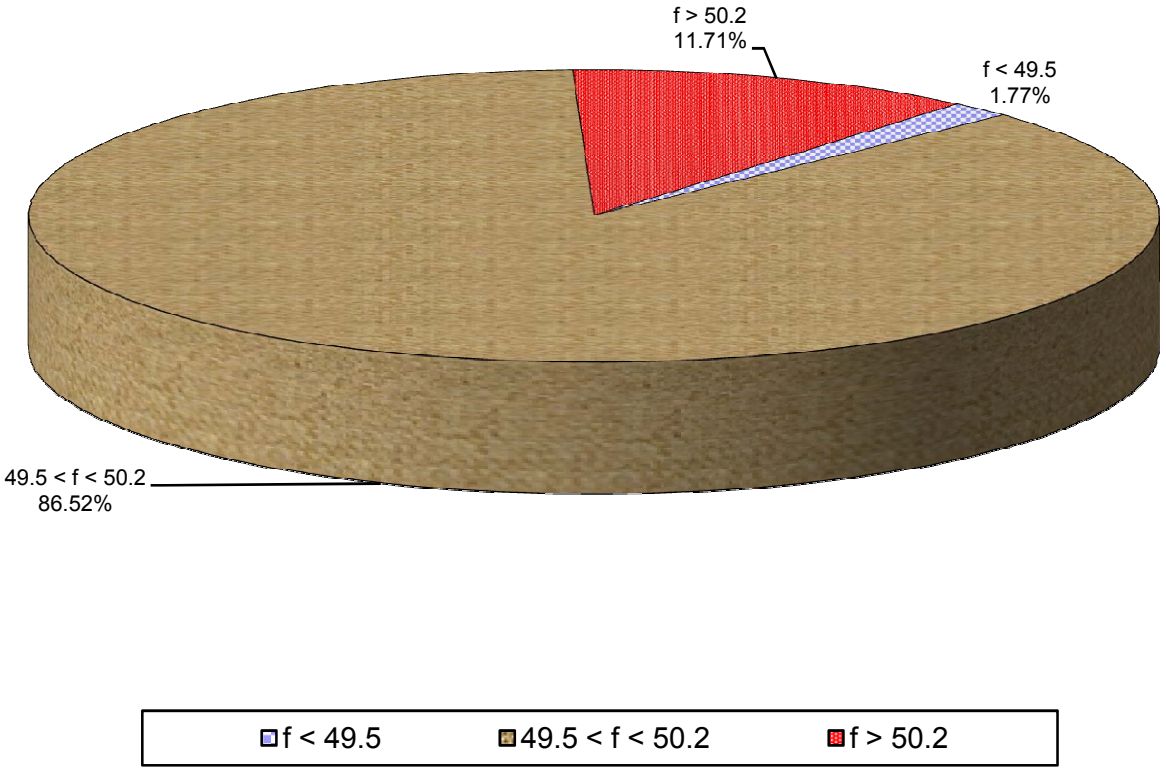


Exhibit-II

FVI Characteristics for September, 2010

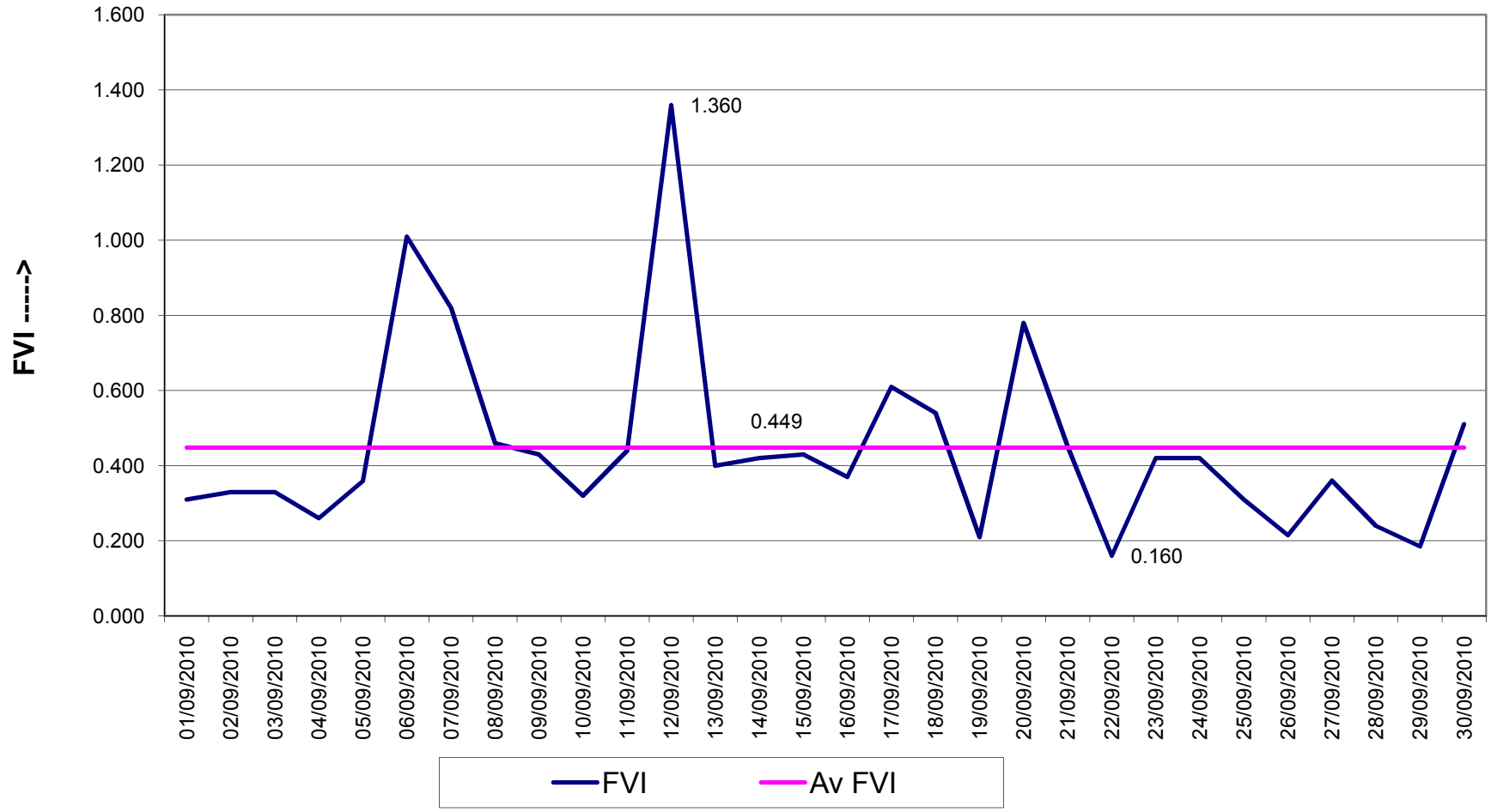


Exhibit-III

Maximum & Minimum Voltage Levels of Important Substations in NER during September, 2010

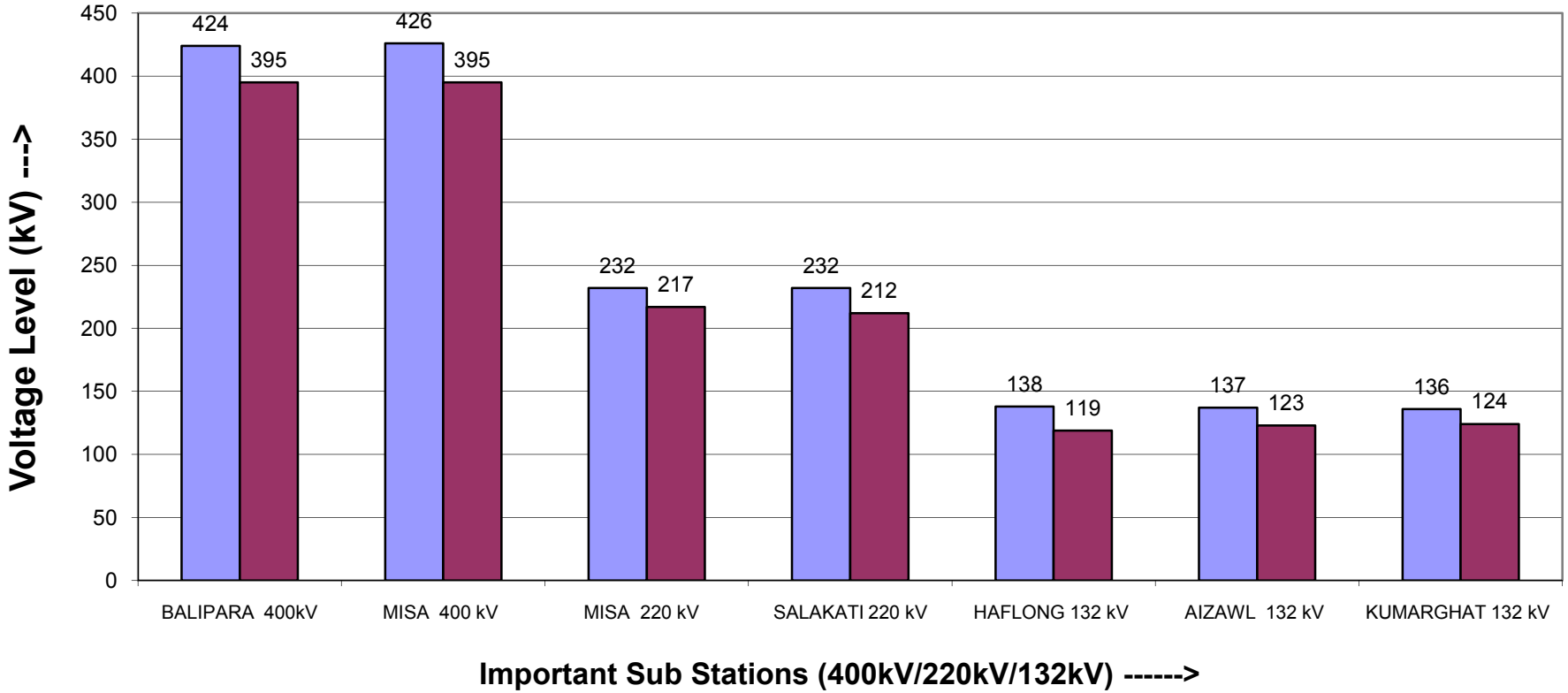


Exhibit-IV

State and Central Sector Generation (MU) in NER in September, 2010

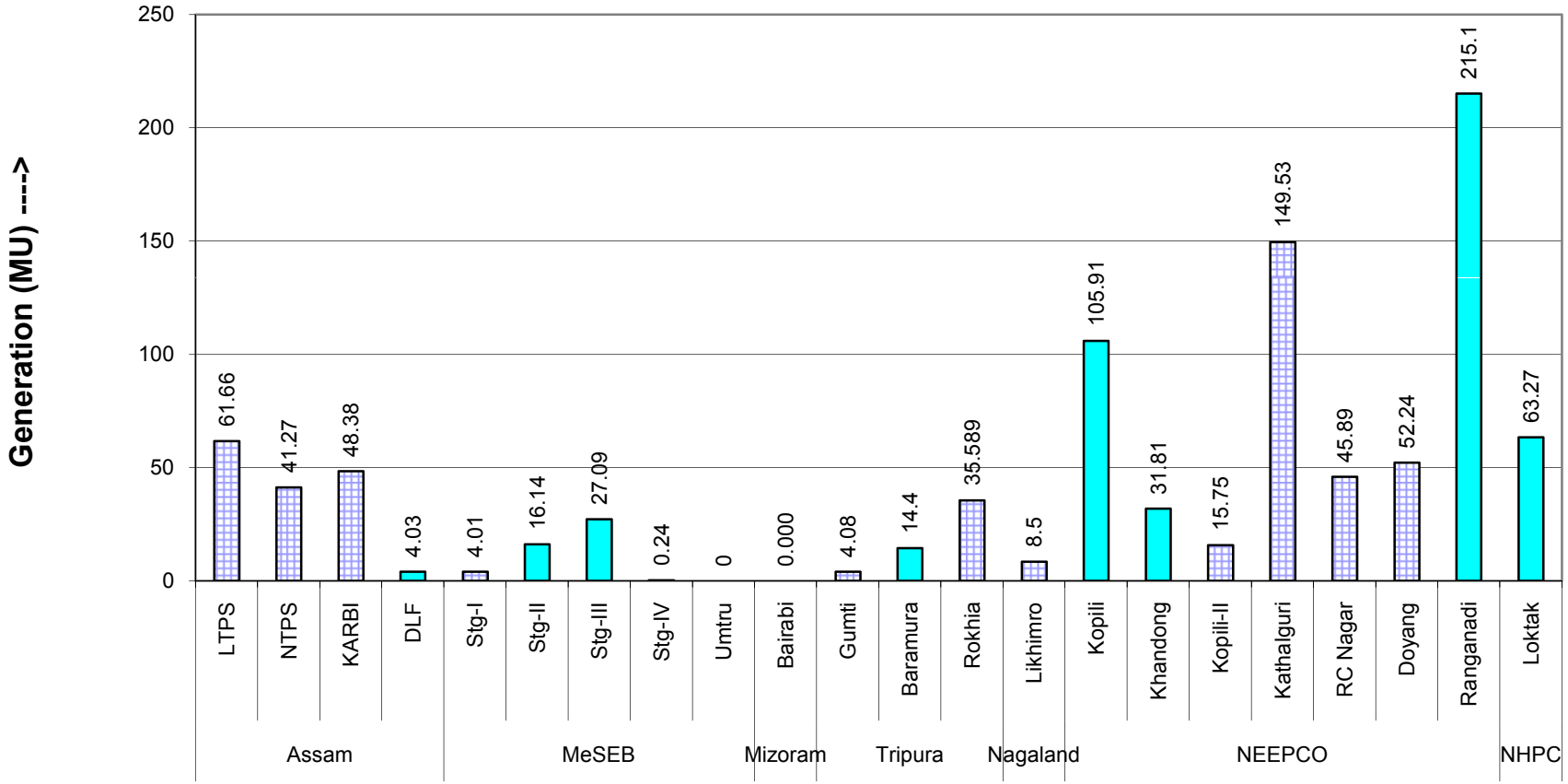


Exhibit-V

NER States Energy Scenario in September, 2010

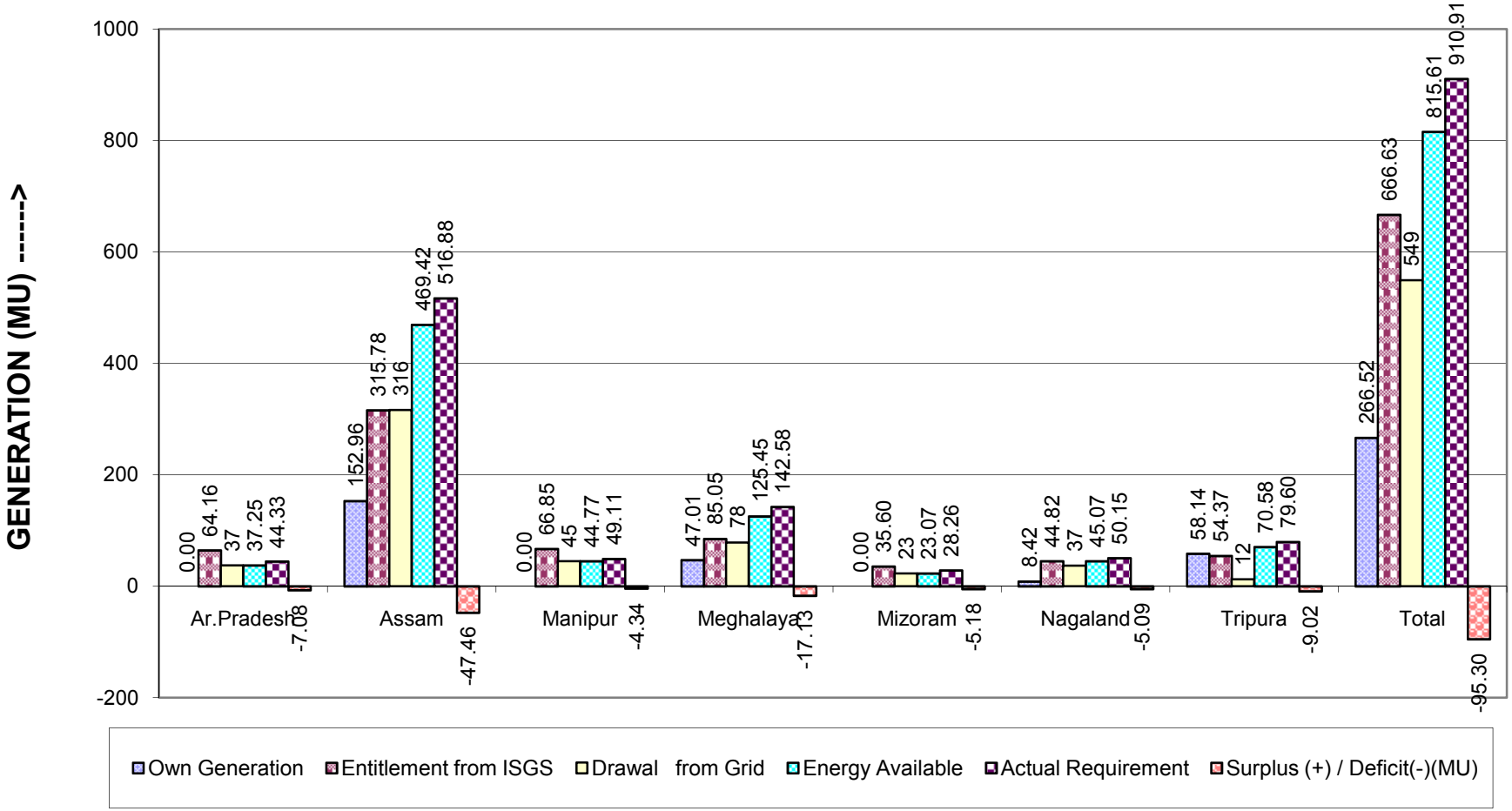


Exhibit-VI

Reservoir Statistics of NER in September, 2010