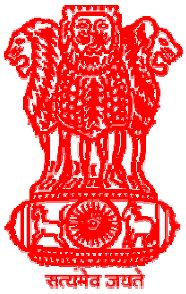


भारत सरकार Government of India
विद्युत मंत्रालय Ministry of Power
केंद्रीय विद्युत प्राधिकरण
Central Electricity Authority

उत्तर पूर्वी क्षेत्रीय विद्युत समिति
North Eastern Regional Power Committee

शिलोंग Shillong

Progress Report

For the month of

August, 2010

CONTENTS

NORTH EASTERN REGIONAL POWER COMMITTEE

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

The maximum unrestricted demand during the month of August, 2010 was 1754 MW, which was 1748 MW in the month of July, 2010. The peak demand met in NER during the period under review was 1465 MW, which was 1468 MW last month.

The maximum, minimum & average system frequency were 50.63, 48.73 & 49.86 Hz respectively. The maximum, minimum & average FVI were 3.340, 0.240 & 0.756 respectively. The average FVI was less than its previous month's figure. (refer Annex-II).

Maximum export of power from NER to ER was 411 MW (on 30/08/10 at 12:00 hrs) and that from ER to NER was 172 MW (11/08/10 at 23:00 hrs). Total net energy export during the month was 74.29 MU (to ER).

SALIENT FEATURES OF
NORTH EASTERN REGIONAL GRID FOR AUGUST, 2010

1	New unit/ transmission lines/Transformers commissioned during this month		**Baramura GT-V - 21 MW, by TSECL**	
2	Number of total grid disturbance during this month		Nil	
			Aug-10	**Aug-09**
3	**Installed Capacity** of the Region (in MW)(grid)		2054.12	2033.12
4	**Energy Generation in MU (Gross)::**			
	Thermal		310.240	335.043
	Hydel		600.763	575.193
	Diesel / Oil		0.000	0.000
	Total		911.003	910.236
5	**Demand in MW ::**			
	Registered Peak demand		1754.00	1760.00
	Peak demand met		1465.00	1369.00
	Shortage (% age)		-16.48	-22.22
6	**Regional Energy(Gross) in MU ::**			
	Energy requirement		939.47	877.00
	Energy availability		852.17	759.00
	Surplus (+) / Deficit (-) (% age)		-9.29	-13.45
7	**Inter Regional Energy Exchange in MU ::**			
	NER ----> ER		126.463	157.191
	ER ----> NER		52.177	33.725
	Net Export		74.286	123.47
8	**Frequency profile ::**			
	Average frequency (Hz)		49.86	49.42
	Average Frequency Variation Index		0.756	4.404
9	Load Factor (in %)		65.30	57.96

ENERGY GENERATION IN THE REGION FOR THE MONTH OF Aug-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	71.320	70.607	0.000	0.000	71.950	71.231	40.480	39.266	183.750	181.103
Meghalaya	50.780	50.272	0.000	0.000	0.000	0.000	0.000	0.000	50.780	50.272
Mizoram	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tripura	5.123	5.072	0.000	0.000	46.026	45.566	0.000	0.000	51.149	50.638
Nagaland	11.500	11.385	0.000	0.000	0.000	0.000	0.000	0.000	11.500	11.385
Total (State Sector)									**297.179**	**293.398**
Central Sector :										
NEEPCO :										
Khd+Kop+Kop-II	152.620	151.094	0.000	0.000	0.000	0.000	0.000	0.000	152.620	151.094
K'guri	0	0	0.000	0.000	0	0	142.900	138.613	142.900	138.613
RCNagar	0	0	0	0	54.910	54.361	0	0	54.910	54.361
Doyang	52.540	52.015	0	0	0	0	0	0	52.540	52.015
Ranganadi	190.900	188.991	0	0	0	0	0	0	190.900	188.991
NHPC :										
Loktak	65.980	65.320	0.000	0.000	0.000	0.000	0.000	0.000	65.980	65.320
Total (Central Sector)									659.850	650.394
Total NER	600.763	594.755	0.000	0.000	172.886	171.157	183.380	177.879	**957.029**	**943.791**

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.	45.74	40.24	5.50	12.02%	95	84	11	11.84%
Assam	534.01	499.50	34.52	6.46%	899	842	57	6.39%
Manipur	50.31	46.72	3.59	7.13%	112	103	9	8.18%
M'laya	138.89	121.41	17.48	12.59%	280	207	73	26.15%
Mizoram	28.80	24.19	4.61	16.01%	69	61	8	11.90%
Nagaland	61.67	53.33	8.34	13.53%	118	93	25	20.89%
Tripura	80.04	66.78	13.26	16.57%	186	154	32	17.03%
REGION	939.47	852.17	87.30	9.29%	1754	1465	289	16.48%

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	84.00	23/08/2010	49.89	0.28	11	95.28
Assam	842.00	01/08/2010	50.02	-0.51	58	899.49
Manipur	103.00	13/08/2010	49.62	1.17	8	112.17
Meghalaya	207.00	03/08/2010	49.63	2.30	71	280.30
Mizoram	61.00	14/08/2010	49.87	0.24	8	69.24
Nagaland	93.00	21/08/2010	49.80	0.56	24	117.56
Tripura	154.00	14/08/2010	49.87	0.60	31	185.60
REGION	1465.00	01/08/2010	50.02	-0.88	290	1754.12

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

ESTIMATION OF ENERGY REQUIREMENT (in MU)

Average Frequency 49.86 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	61.470	2.404	40.244	-23.631	40.244	0.169	5.33	45.743
Assam	181.103	309.110	87.786	318.393	-78.503	499.496	2.098	32.42	534.014
Manipur	0.000	66.357	0.000	46.724	-19.633	46.724	0.196	3.39	50.311
M'laya	50.272	83.612	19.143	71.139	-31.615	121.412	0.510	16.97	138.892
Mizoram	0.000	34.941	0.000	24.193	-10.748	24.193	0.102	4.51	28.804
Nagaland	11.385	44.109	9.304	41.942	-11.470	53.327	0.224	8.12	61.671
Tripura	50.638	54.462	0.000	16.140	-38.322	66.778	0.280	12.98	80.038
REGION	293.398	654.061	118.636	558.776	-213.922	852.173	3.579	83.72	939.473

*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)	
				Aug-10	Aug-09
	STATE SECTOR : HYDRO				
	ASSAM :: HYDRO				
1	KARBI HEP U - 1	50.00	50.00	35.480	33.600
2	KARBI HEP U - 2	50.00	50.00	35.840	36.090
	TOTAL	100.00		71.32	69.690
	MEGHALAYA :: HYDRO				
1	STAGE - 1	36.00	27.00	4.320	11.395
2	STAGE - 2	18.00	13.50	15.790	5.044
3	STAGE - 3	60.00	58.90	28.390	18.345
4	STAGE - 4	60.00	60.70	1.850	29.356
5	UMTRU	11.20	8.40	0.430	4.230
	TOTAL	185.20		50.780	68.370
	NAGALAND :: HYDRO				
6 7 8	LIKIMRO - 1 LIKIMRO - 2 LIKIMRO - 3	24.00	20.00	11.500	9.250
	TOTAL	24.00		11.500	9.250
	TRIPURA :: HYDRO				
9	GUMTI - 1	5.00	Gumti Stn. Peak =8 MW	0.000	0.000
10	GUMTI - 2	5.00		2.744	2.855
11	GUMTI - 3	5.00		2.379	2.698
	TOTAL	15.00		5.123	5.553
TOTAL STATE (HYDRO) :		324.20		138.723	152.863

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)	
				Aug-10	Aug-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		15.400	14.874
5	BARAMURA - 5	21.00		12.000	0.000
6	ROKHIA - 1	8.00	Rokhia Stn. Peak = 57 MW	0.000	0.000
7	ROKHIA - 2	8.00		0.000	0.000
8	ROKHIA - 3	8.00		4.780	3.855
9	ROKHIA - 4	8.00		2.956	3.838
10	ROKHIA - 5	8.00		0.000	0.000
11	ROKHIA - 6	8.00		0.000	0.000
12	ROKHIA - 7	21.00		7.540	2.370
13	ROKHIA - 8	21.00		15.350	13.620
	TOTAL	148.50		58.026	38.557
	ASSAM :: THERMAL				
1	LTPS - 1	15.00	LTPS Stn. Peak = 106 MW	10.200	8.400
2	LTPS - 2	15.00		9.440	8.130
3	LTPS - 3	15.00		6.530	9.790
4	LTPS - 4	15.00		6.570	7.370
5	LTPS - 5	20.00		11.750	1.540
6	LTPS - 6	20.00		12.400	14.280
7	LTPS - 7	20.00		10.050	10.940
8	NTPS - 1	20.00	NTPS Stn. Peak = 72 MW	12.160	7.670
9	NTPS - 2	21.00		12.040	12.090
10	NTPS - 3	21.00		4.150	9.920
11	NTPS - 4	11.00		5.760	6.740
12	NTPS - 5	22.00		0.000	2.110
13	NTPS - 6	22.00		6.370	6.230
14	DLF	24.50		5.010	7.070
	TOTAL	261.50		112.430	112.280
TOTAL STATE THERMAL/GAS :		432.92		170.456	150.837
TOTAL SC GEN(HY+TH/GAS)		**757.12**		**309.179**	**303.700**

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)	
				Aug-10	Aug-09
	CENTRAL SECTOR : HYDRO				
1	KHANDONG - 1	25.00	25.00	15.730	16.400
2	KHANDONG - 2	25.00	25.00	15.810	16.300
3	KOPILI Stg - II	25.00	25.00	15.800	16.370
4	KOPILI - 1	50.00	50.00	35.300	35.660
5	KOPILI - 2	50.00	0.00	0.000	32.960
6	KOPILI - 3	50.00	50.00	33.130	0.000
7	KOPILI - 4	50.00	50.00	36.850	29.770
8	DOYANG -1	25.00	Doyang Stn. Peak = 73 MW	17.620	17.480
9	DOYANG -2	25.00		17.240	7.880
10	DOYANG -3	25.00		17.680	17.620
11	LOKTAK - 1	35.00	Loktak Stn. Peak = 99 MW	17.740	16.610
12	LOKTAK - 2	35.00		24.350	14.310
13	LOKTAK - 3	35.00		23.890	0.000
14	RANGANADI - 1	135.00	Ranganadi Stn. Peak =403 MW	63.390	67.260
15	RANGANADI - 2	135.00		54.840	70.620
16	RANGANADI - 3	135.00		72.670	63.090
TOTAL HYDRO :		**860.00**		**462.040**	**422.330**
	CENTRAL SECTOR : THERMAL/GAS				
1	KATHALGURI - 1	33.50	Kathalguri Stn. Peak = 218 MW	10.500	20.240
2	KATHALGURI - 2	33.50		21.200	20.250
3	KATHALGURI - 3	33.50		20.270	11.840
4	KATHALGURI - 4	33.50		18.980	15.070
5	KATHALGURI - 5	33.50		19.470	10.260
6	KATHALGURI - 6	33.50		13.690	14.150
7	KATHALGURI - 7	30.00		11.530	16.880
8	KATHALGURI - 8	30.00		15.060	9.900
9	KATHALGURI - 9	30.00		12.200	10.150
10	R.C.NAGAR - 1	21.00	RC Nagar Stn. Peak = 82 MW	14.190	14.059
11	R.C.NAGAR - 2	21.00		14.270	14.174
12	R.C.NAGAR - 3	21.00		13.530	13.297
13	R.C.NAGAR - 4	21.00		12.920	13.936
TOTAL THERMAL/GAS :		375.00		197.810	184.206
TOTAL CS (HY + TH/GAS) :		1235.000		659.850	606.536
TOTAL NER GEN(HY+TH/GAS) :		**1992.120**		**969.029**	**910.236**

Plant Load Factor (PLF) and Voltage Profile : Aug-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	66.940	74.98
2	NTPS*	AEGCL	117.00	40.480	46.50
3	Baramura	Tripura	58.50	27.400	62.95
4	Rokhia	Tripura	90.00	30.626	45.74
5	AGBPP	NEEPCO	291.00	142.900	66.00
6	AGTPP	NEEPCO	84.00	54.910	**87.86**
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	432	395
3	MISA 220 kV	230	218
4	SALAKATI 220 kV	232	214
5	HAFLONG 132 kV	137	126
6	AIZAWL 132kV	138	123
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	0.00	0.00	92.94	7.06
BALIPARA	0.00	0.54	97.98	1.48

1 **INTER - REGIONAL EXCHANGE :**

All Fig in MU

NER to ER	126.463
ER to NER	52.177
NET EXPORT	74.286

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

3	**MEETING HELD BY NERPC DURING THIS MONTH**	1. 53rd OCC Meeting was held on 06.08.10 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

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.								
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(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	`+/- 800 kV HVDC Bipol Bis'nath Chariali-Agra	1971	08/2013	08/2013	2293	1016	210		All tower packages awarde
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 Chariali	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 (NLCPR)								
1. 132 kV Pasighat - Roing		2007-12						Work is in progress
2. 132 kV Likabali - Gerukamukh		2007-12						Work is in progress
3. 132 kV Pasighat - Niglok		2007-12						Work is in progress
4. 132 kV Deomali - Khonsa		2007-12						Work is in progress
5. 132 kV Khupi - Banderdawa		2007-12						Work is in progress
6. 132 kV Banderdawa - Tawang		2007-12						Work is in progress
7. 132 kV Khonsa - Changlang		2007-12						Work is in progress
8. 132 kV Changlang - Jairampur		2007-12						Work is in progress
9. 132 kV Jairampur - Miao		2007-12						Work is in progress
10 132 kV Itanagar - Seijusa		2007-12						Work is in progress
11. 132 kV Seijusa - Balipara		2007-12						Work is in progress
iv) Proposed for XIth Five Years Plan (NEC)								
1. 132 kV Niglok - Likabali		2007-12						Work is in progress
2. 132 kV Itanagar - Gohpur		2007-12						Work is in progress

UI Receivable/ Payable for the month of Aug-10

Organisation	Actual (MU)	Schedule (MU)	UI Energy (MU)	UI Receivable (Rs. in Lakhs)	UI Payable (Rs. in Lakhs)
Arunachal Pradesh	40.244	45.491	-5.247	165.75	67.37
ASEB	318.393	348.117	-29.724	609.79	63.82
Manipur	46.724	67.800	-21.076	572.74	0.51
MeSEB	71.139	75.910	-4.770	213.83	13.58
Mizoram	24.193	28.000	-3.807	106.63	4.56
Nagaland	41.942	34.577	7.365	3.62	216.87
Tripura	16.140	21.229	-5.089	150.96	19.72

Entitlement, Schedule, Drawal and UI Charges Aug-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	61.470	61.515	45.491	40.244	-5.247	0.984
ASEB	309.110	308.897	348.117	318.393	-29.724	5.460
Manipur	66.357	66.383	67.800	46.724	-21.076	5.722
MeSEB	83.612	83.612	75.910	71.139	-4.770	2.003
Mizoram	34.941	34.939	28.000	24.193	-3.807	1.021
Nagaland	44.109	44.082	34.577	41.942	7.365	-2.133
Tripura	54.462	54.634	21.229	16.140	-5.089	1.312

(Source : UI A/c, NERPC)

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

States	Schedule From ISGS(MWH)	Bilateral Schedule from Outside NER (MWH)	Total Schedule (MWH)	Ex.PP. Drawal (MWH)	Tr. Energy (MWH)
Arunachal Pradesh	61455.70	2477.28	63932.97	41683.84	63932.97
ASEB	308976.37	90437.900000	399414.27	329783.23	399414.27
Manipur	66336.75		66336.75	48396.00	66336.75
MeSEB	83582.90	19721.225000	103304.13	73684.36	103304.13
Mizoram	34926.67		34926.67	25058.13	34926.67
Nagaland	44094.09	9585.33	53679.41	43442.42	53679.41
Tripura	54436.60		54436.60	16717.38	54436.60
Total	653809.08	122221.73	776030.80	578765.35	776030.80

ISGS	Schedule (MWH)	Injection (MWH)
LOKTAK	64803.66	65047.59
KHANDONG	32294.90	31969.99
KOPILI-I	103747.80	105065.60
KOPILI-II	15286.60	15262.54
DHEP	50629.80	50930.13
RHEP	194107.75	194195.43
AGTPP	53483.84	53774.12
AGBPP	139454.72	138678.99
Total	653809.08	654924.39

Source : Provisional REA for the month: Aug-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:- 01.08.2010

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	265	472.61	737.8	66	187.1	120.84	72	105.4	33.50	32.72	24.84	35.26	49.92	-48.23	1242.47	1173.04	1194.27	21.2	817.88
2	837.38	267	435.38	702.0	67	188.2	121.35	71	100.5	29.55	25.28	23.08	35.39	50.41	-95.46	1241.86	1124.92	1146.45	21.5	815.85
3	842.71	265	409.07	674.3	67	211.8	144.89	71	95.4	24.52	32.39	22.44	34.34	49.06	-107.41	1245.70	1119.71	1138.33	18.6	824.08
4	814.57	264	387.90	652.0	37	183.2	145.78	71	95.1	24.15	30.34	22.12	34.26	48.25	-111.50	1187.02	1065.24	1075.57	10.3	804.24
5	819.13	264	351.78	615.5	38	183.4	145.77	71	87.2	15.88	35.27	22.36	38.97	45.20	-145.44	1191.81	1027.92	1046.41	18.5	800.64
6	832.31	265	302.27	567.5	37	163.7	126.23	71	72.6	1.65	62.81	31.61	52.06	48.07	-199.49	1205.91	998.30	1006.46	8.2	824.15
7	857.90	265	296.02	561.2	67	206.7	139.60	71	74.1	2.71	71.13	44.52	59.55	56.46	-174.56	1261.63	1073.72	1087.11	13.4	844.51
8	853.01	265	313.88	579.1	56	199.7	143.91	72	82.6	10.31	80.57	48.14	58.20	58.29	-113.89	1246.26	1106.54	1132.41	25.9	827.14
9	851.45	264	326.54	590.3	56	211.4	155.64	72	84.2	12.58	76.02	40.97	52.42	60.16	-113.62	1242.56	1115.44	1128.98	13.5	837.91
10	973.44	264	340.82	604.5	52	192.2	140.39	72	83.9	12.23	57.55	33.08	45.88	52.47	-265.25	1360.64	1069.63	1095.43	25.8	947.64
11	946.85	264	337.01	600.7	59	207.0	147.65	72	76.9	4.78	52.68	30.96	46.00	54.55	-254.99	1342.00	1068.78	1087.05	18.3	928.58
12	941.07	264	357.99	621.7	29	167.7	139.04	69	96.6	28.05	55.78	32.96	45.76	51.02	-207.14	1301.99	1071.52	1094.88	23.4	917.71
13	820.60	264	369.19	632.9	23	149.7	127.18	56	81.3	24.86	53.37	31.26	47.18	53.24	-97.12	1163.24	1048.93	1066.16	17.2	803.37
14	835.05	264	384.49	648.2	47	114.3	66.91	51	76.3	25.25	78.72	32.54	51.93	49.32	-135.68	1197.20	1051.31	1061.56	10.2	824.80
15	815.46	265	381.22	646.4	30	160.9	131.09	60	96.4	36.52	78.07	38.38	49.60	51.41	-27.62	1170.28	1121.11	1142.70	21.6	793.87
16	805.44	264	364.89	628.6	74	195.0	120.95	37	79.3	42.60	77.27	43.50	54.49	52.83	-29.69	1179.97	1131.07	1150.32	19.3	786.19
17	820.55	264	352.31	616.0	59	151.3	91.92	48	69.8	22.02	71.04	45.45	57.04	59.77	-106.09	1191.49	1070.48	1085.49	15.0	805.54
18	935.03	264	374.59	638.3	95	157.0	61.79	64	116.2	52.03	69.62	49.87	69.95	63.74	-180.79	1358.15	1164.71	1177.44	12.7	922.29
19	941.37	263	571.44	834.8	95	184.5	89.84	64	130.0	66.11	74.44	55.07	80.52	78.76	109.62	1363.32	1438.12	1473.03	34.9	906.46
20	1013.26	263	591.61	854.6	95	173.3	77.92	64	129.7	65.32	88.50	52.69	73.49	79.77	43.82	1436.01	1452.04	1479.91	27.9	985.39
21	984.47	263	591.17	854.5	110	195.7	86.08	70	133.7	63.40	82.86	48.27	70.09	75.15	48.78	1427.73	1460.28	1476.59	16.3	968.15
22	960.67	263	571.40	834.7	100	177.5	77.28	70	114.8	44.51	77.93	40.59	63.37	73.23	13.55	1394.47	1382.10	1408.11	26.0	934.66
23	974.31	264	518.14	781.9	100	198.0	97.94	70	114.8	44.51	74.66	31.02	51.27	52.78	-74.27	1408.43	1304.43	1334.20	29.8	944.55
24	845.69	263	451.56	714.9	70	169.8	99.34	75	118.2	43.14	61.62	25.23	44.53	49.94	-44.45	1254.52	1184.20	1210.11	25.9	819.77
Max	1013.26	267	591.61	854.59	110	211.8	155.64	75	133.7	66.11	88.50	55.07	80.52	79.77	109.62	1436.01	1460.28	1479.91	34.9	985.39
Min	805.44	263	296.02	561.20	23	114.3	61.79	37	69.8	1.65	25.28	22.12	34.26	45.20	-265.25	1163.24	998.30	1006.46	8.2	786.19

HOURLY DATA ON MINIMUM DEMAND MET DAY

DATE: 20.08.2010

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	265	786.9	521.70	65	116.3	51.37	78	23.06	100.87	22.33	15.84	55.88	48.21	-8.64	1171.8	1146.3	1163.20	16.9	746.97
2	743.76	265	726.0	460.79	110	189.1	79.32	78	19.22	97.27	23.60	16.29	53.44	46.77	-15.16	1196.8	1152.5	1181.69	29.2	714.52
3	742.45	264	698.6	434.91	102	245.5	143.47	78	17.05	94.93	25.55	15.80	53.49	47.94	34.58	1186.0	1181.8	1220.68	38.9	703.56
4	766.98	264	672.1	408.40	36	150.5	114.10	78	14.05	91.65	21.57	16.23	50.36	48.72	-69.72	1144.7	1051.2	1075.07	23.9	743.08
5	781.41	264	607.4	343.31	66	182.9	116.50	78	9.06	86.80	24.94	17.48	56.48	49.55	-121.72	1189.7	1025.6	1068.00	42.4	738.98
6	769.05	264	590.0	325.90	67	183.2	116.50	78	-0.75	77.14	58.24	27.09	64.49	57.17	-71.09	1177.7	1057.3	1092.09	34.8	734.23
7	764.67	265	587.5	322.34	67	196.5	129.87	77	13.77	91.19	59.70	37.80	66.06	60.35	-42.04	1173.9	1099.1	1131.92	32.8	731.88
8	865.92	264	600.0	336.29	79	211.5	132.06	66	10.66	77.01	69.09	38.28	63.94	61.19	-125.93	1275.4	1121.0	1149.56	28.6	837.37
9	871.20	264	591.9	328.18	79	217.7	138.29	65	11.23	76.06	62.90	28.99	54.02	50.20	-165.16	1279.2	1081.8	1114.09	32.3	838.91
10	869.50	263	573.1	310.11	65	194.6	129.38	72	5.63	77.23	57.25	27.19	46.92	48.04	-180.83	1269.3	1024.3	1088.50	64.2	805.28
11	867.87	264	582.6	318.84	66	200.1	134.49	69	7.56	76.85	45.29	25.98	46.12	49.71	-180.04	1266.4	1026.6	1086.47	59.9	807.96
12	861.65	264	624.2	360.50	59	182.0	122.88	69	8.03	77.22	48.85	29.09	41.46	39.92	-166.23	1253.7	1042.7	1087.50	44.8	816.89
13	754.73	264	640.9	377.21	81	187.4	106.84	69	7.01	76.06	51.55	29.36	47.71	45.64	-70.59	1168.1	1078.7	1097.58	18.9	735.86
14	758.52	264	601.3	337.61	81	181.4	100.57	72	8.93	81.39	70.53	29.22	54.85	43.09	-42.13	1175.5	1061.8	1133.48	71.7	686.87
15	765.52	264	692.8	429.05	81	191.6	110.75	76	12.08	87.77	75.03	36.58	65.21	42.55	7.83	1185.8	1191.5	1193.68	2.2	763.34
16	760.84	265	705.4	440.24	80	194.9	114.46	76	5.07	80.85	75.41	42.74	62.03	46.74	54.38	1182.3	1208.1	1236.70	28.6	732.23
17	996.76	264	702.1	438.39	81	200.9	120.28	77	7.62	84.40	76.38	44.16	72.98	61.97	-119.70	1417.9	1242.9	1298.29	55.4	941.37
18	1073.38	264	760.4	496.28	80	155.4	75.23	75	44.29	119.42	57.93	50.03	67.40	75.90	-166.87	1492.8	1286.5	1326.05	39.6	1033.80
19	1057.57	264	819.9	555.80	91	175.7	84.74	81	68.41	149.43	80.20	52.52	81.57	83.20	-9.59	1493.6	1442.5	1484.18	41.7	1015.90
20	801.03	264	778.2	514.44	105	193.6	88.78	81	53.88	134.77	85.23	51.87	70.57	20.51	35.07	1250.4	1334.7	1285.63	-49.0	850.07
21	981.21	264	741.4	477.70	105	185.2	80.62	81	55.51	136.81	86.70	46.45	74.61	65.33	-9.29	1430.8	1336.5	1421.62	85.1	896.10
22	1059.11	264	767.4	503.33	111	179.6	68.47	81	51.51	132.38	83.17	38.43	60.44	75.08	-153.60	1515.2	1336.5	1361.73	25.2	1033.90
23	1057.29	264	812.2	548.08	105	186.2	81.24	81	57.16	137.76	73.26	30.89	51.36	54.20	-125.68	1506.9	1345.8	1381.27	35.5	1021.81
24	1052.38	264	768.9	505.18	78	164.2	86.58	80	47.21	127.46	62.77	23.75	44.31	52.94	-207.40	1474.0	1244.3	1266.63	22.3	1030.07
Max	1073.38	265	819.9	555.80	111	245.5	143.47	81	68.41	149.43	86.70	52.52	81.57	83.20	54.38	1515.2	1442.5	1484.18	85.1	1033.90
Min	742.45	263	573.1	310.11	36	116.3	51.37	65	-0.75	76.06	21.57	15.80	41.46	20.51	-207.40	1144.7	1024.3	1068.00	-49.0	686.87

ANNEXURES
&
EXHIBITS

Annexure-I

RESERVOIR PARTICULARS OF THE MONTH : **Aug-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	717.75	21.50	719.50	25.00
KOPILI	609.5 M	592.83 M	605.50	69.00	609.32	98.20
LOKTAK	768.5 M	766.2 M	768.85	250.00	768.60	250.00
BARAPANI	3220 Ft	3150 Ft	3196.43	26.50	3209.04	37.80
GUMTI	93.55 M	83.6 M	89.05	12.10	90.10	15.40
DOYANG	333 M	306 M	324.05	36.50	324.70	38.00

Annexure-II

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

Frequency	(Freq.in Hz)	(Time: H:M)	(Date:D.M.Y)
1. Maximum frequency	50.63	6:05	20.08.10
2. Minimum frequency	48.73	0:09	10.08.10
3. Monthly average	49.86		

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

f < 49.5	49.5 < f < 50.2	f >50.2
7.61	87.33	5.06

Daily Frequency Variation Index :

DATE	FVI	DATE	FVI
01-Aug-10	0.256	17-Aug-10	0.720
02-Aug-10	0.395	18-Aug-10	0.340
03-Aug-10	0.321	19-Aug-10	0.249
04-Aug-10	0.657	20-Aug-10	0.840
05-Aug-10	1.400	21-Aug-10	0.470
06-Aug-10	1.270	22-Aug-10	0.310
07-Aug-10	0.910	23-Aug-10	0.260
08-Aug-10	0.540	24-Aug-10	0.240
09-Aug-10	0.540	25-Aug-10	0.410
10-Aug-10	**3.340**	26-Aug-10	0.780
11-Aug-10	1.270	27-Aug-10	**0.240**
12-Aug-10	1.270	28-Aug-10	0.544
13-Aug-10	1.570	29-Aug-10	0.240
14-Aug-10	1.980	30-Aug-10	0.370
15-Aug-10	0.350	31-Aug-10	0.400
16-Aug-10	0.950	**Average FVI**	**0.756**

Annexure-III

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

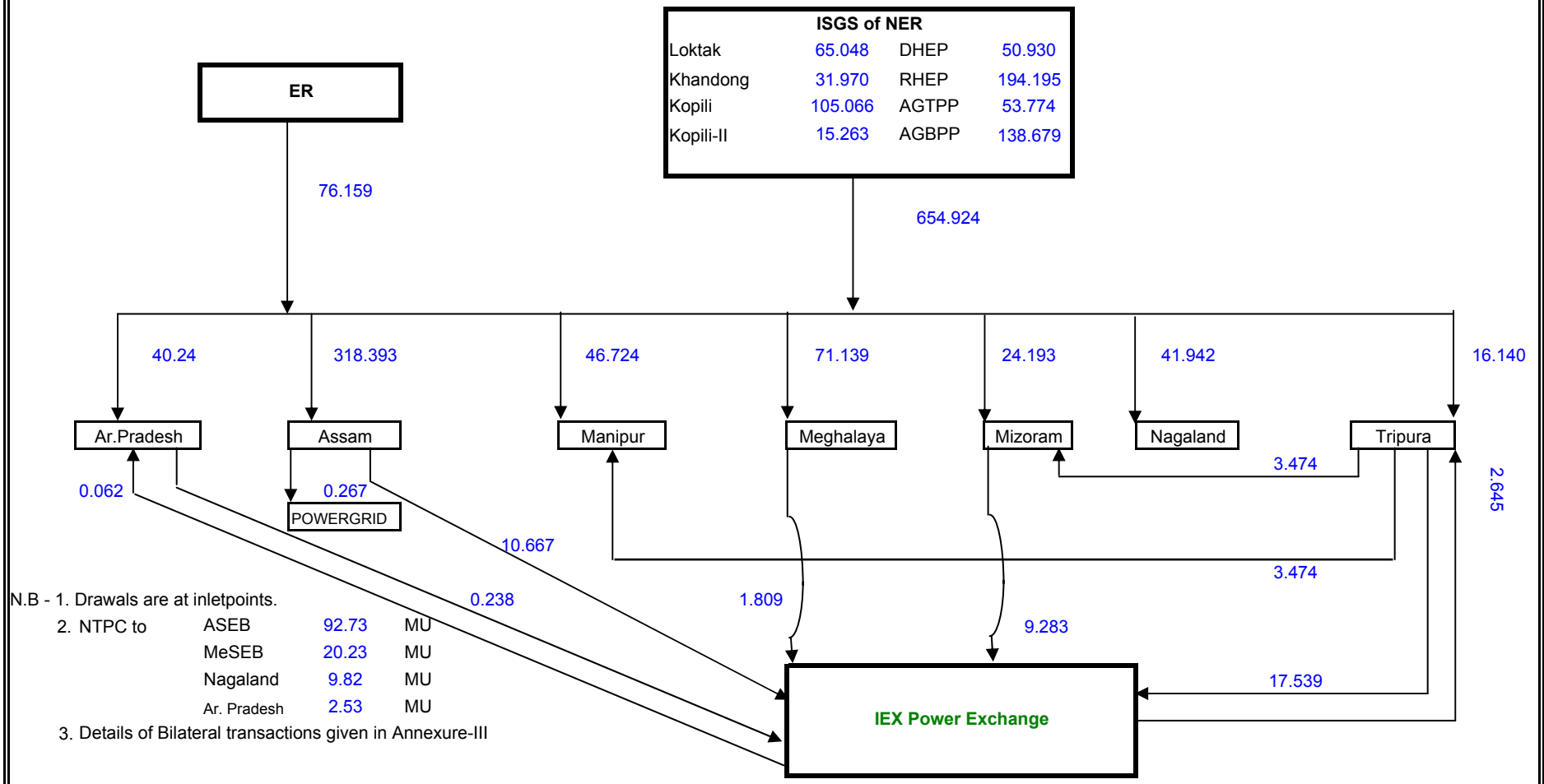
Sl.No.	From	To	Energy (At Seller Injn. Point) (MWH)		Energy (At State Periphery) (MWH)
1	Tripura(Baramura)	Manipur	3474.437500		3372.245813
2	Tripura(Baramura)	Mizoram	3474.437500		3372.245813
3	ASEB	POWERGRID^	267.370500	^ The actual energy consumed by POWERGRID	

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	BSES (AP)	12920.000000	12542.870000	
2	APDCL	HPPC (NVVN)	7200.000000	6988.800000	
3	APDCL	HPPC (NVVN)	21600.000000	20966.400000	
4	MeECL	NDPL (NVVN)	3257.740000	3161.735000	
5	MeECL	NDPL (NVVN)	1955.400000	1897.770000	
6	MeECL	NDPL (NVVN)	7440.000000	7221.120000	
7	MeECL	NDPL (NVVN)	9920.000000	9628.160000	
8	Nag	BSES (Nag)	7590.000000	7370.000000	
9	Nag	BRPL (Nag)	6080.000000	5898.740000	
10	Nag	BRPL (Nag)	3840.000000	3725.520000	
11	TSECL	NDPL (NVVN)	11160.000000	10831.680000	
12	J & K	TSECL (NVVN)	1320.000000	1242.960000	1206.420000
13	Farakka*	Ar. Pradesh	1355.857500	1323.700000	1284.730725
14	Kahalgaon 1*	Ar. Pradesh	413.680050	408.550000	396.494650
15	Talcher*	Ar. Pradesh	761.962875	745.025000	723.088900
16	Farakka*	Assam	35900.451500	35014.275000	33987.848300
17	Kahalgaon 1*	Assam	7402.006300	7219.975000	7007.445050
18	Kahalgaon 2*	Assam	34697.558500	33837.325000	32845.676250
19	Talcher*	Assam	14729.117925	14366.325000	13944.988175
20	Farakka*	MeECL	4908.152250	4783.925000	4643.434275
21	Kahalgaon 1*	MeECL	1586.406150	1548.450000	1502.849475
22	Kahalgaon 2*	MeECL	10971.560000	10690.050000	10376.763000
23	Talcher*	MeECL	2766.781700	2698.800000	2619.534600
24	Farakka*	Nagaland	5202.185625	5080.900000	4931.628650
25	Kahalgaon 1*	Nagaland	1678.843400	1641.025000	1592.624700
26	Talcher*	Nagaland	2934.436075	2863.4	2779.2757
	Bilateral exchange through IEX Power Exchange (-ve means injection, +ve means drawal)				
27	Arunachal Pradesh		-237.640000	-230.000000	
28	Arunachal Pradesh			64.200000	62.400000
29	Assam		-10667.490000	-10352.990000	
30	MeECL		-1809.080000	-1754.430000	
31	Mizoram		-9282.630000	-9009.000000	
32	Tripura		-17538.68	-17021.990000	
33	Tripura			2725.000000	2644.980000

Annexure-IV

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



N.B - 1. Drawals are at inletpoints.

2. NTPC to

ASEB	92.73	MU
MeSEB	20.23	MU
Nagaland	9.82	MU
Ar. Pradesh	2.53	MU

3. Details of Bilateral transactions given in Annexure-III

Exhibit-I

Frequency Duration for August, 2010

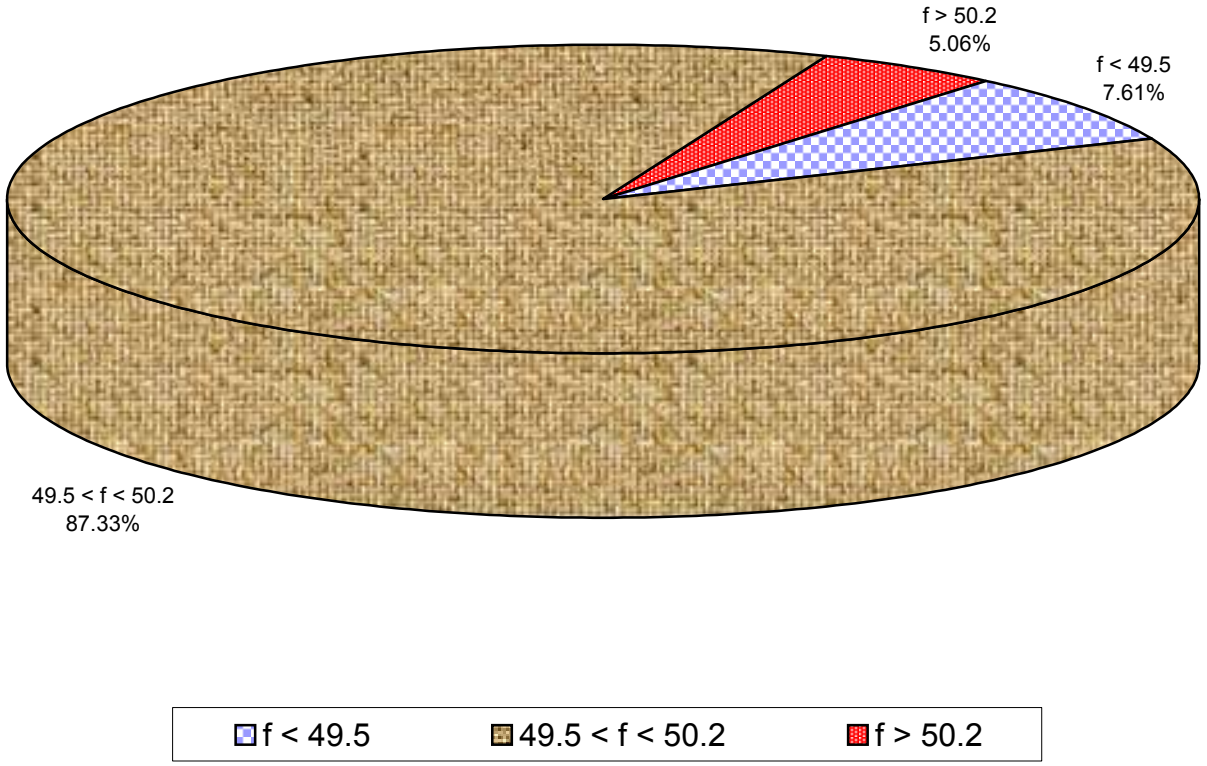


Exhibit-II

FVI Characteristics for August, 2010

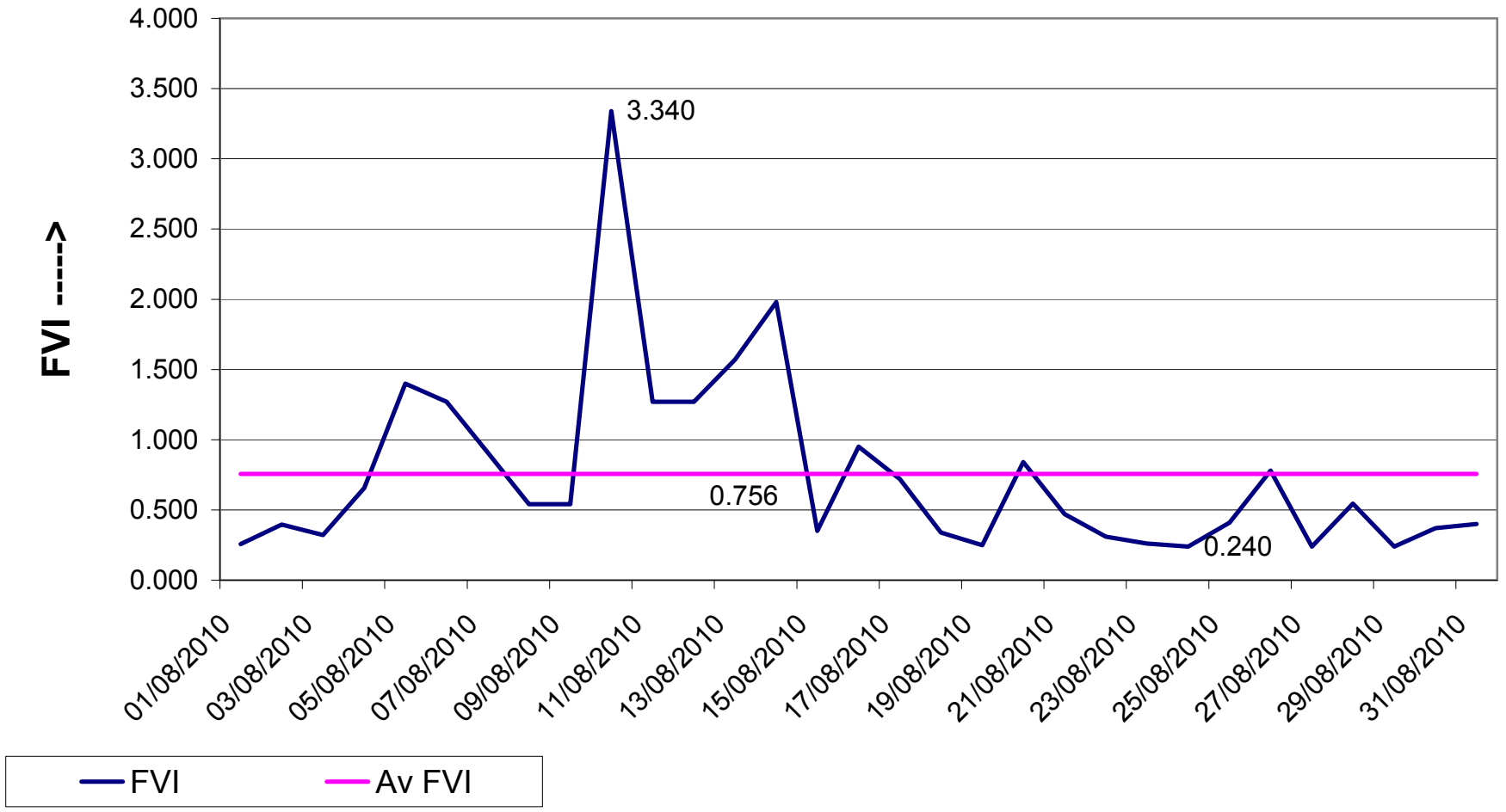


Exhibit-III

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

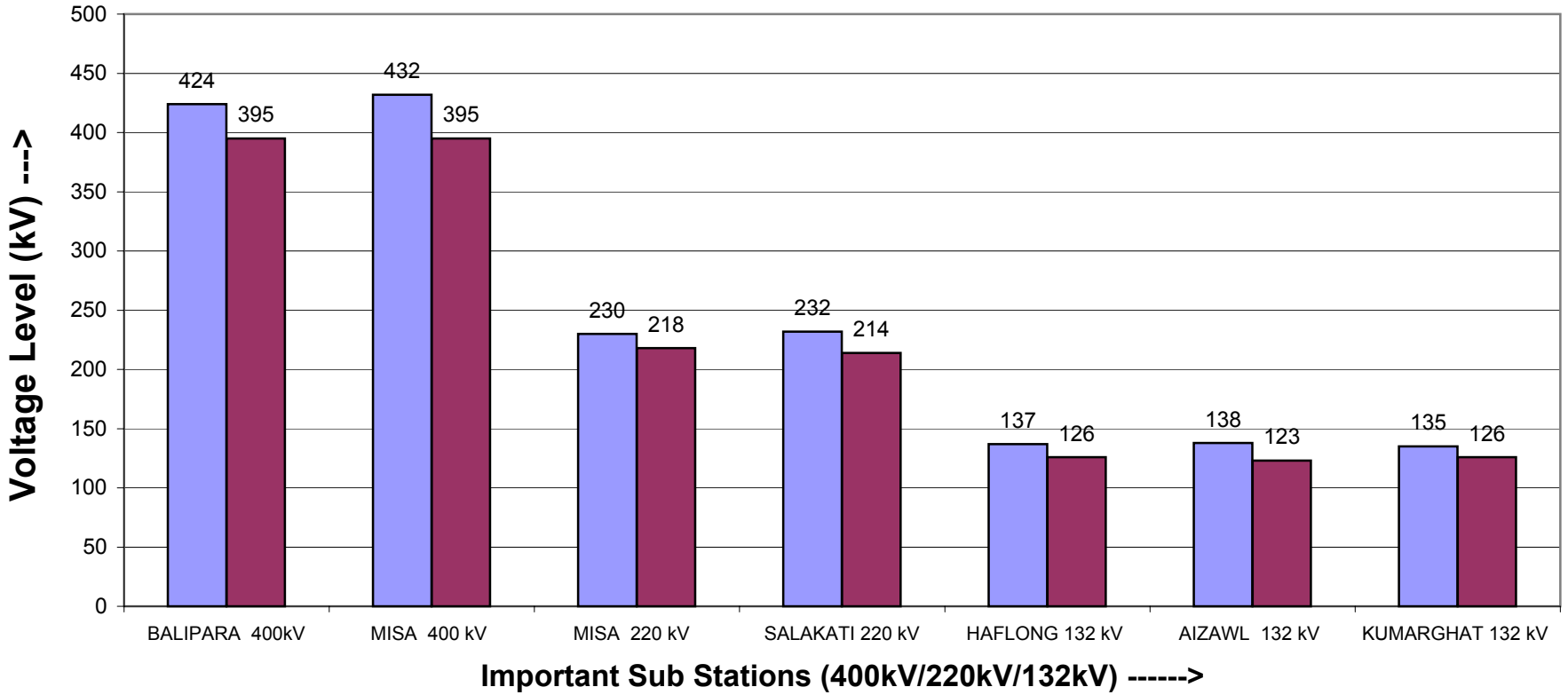


Exhibit-IV

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

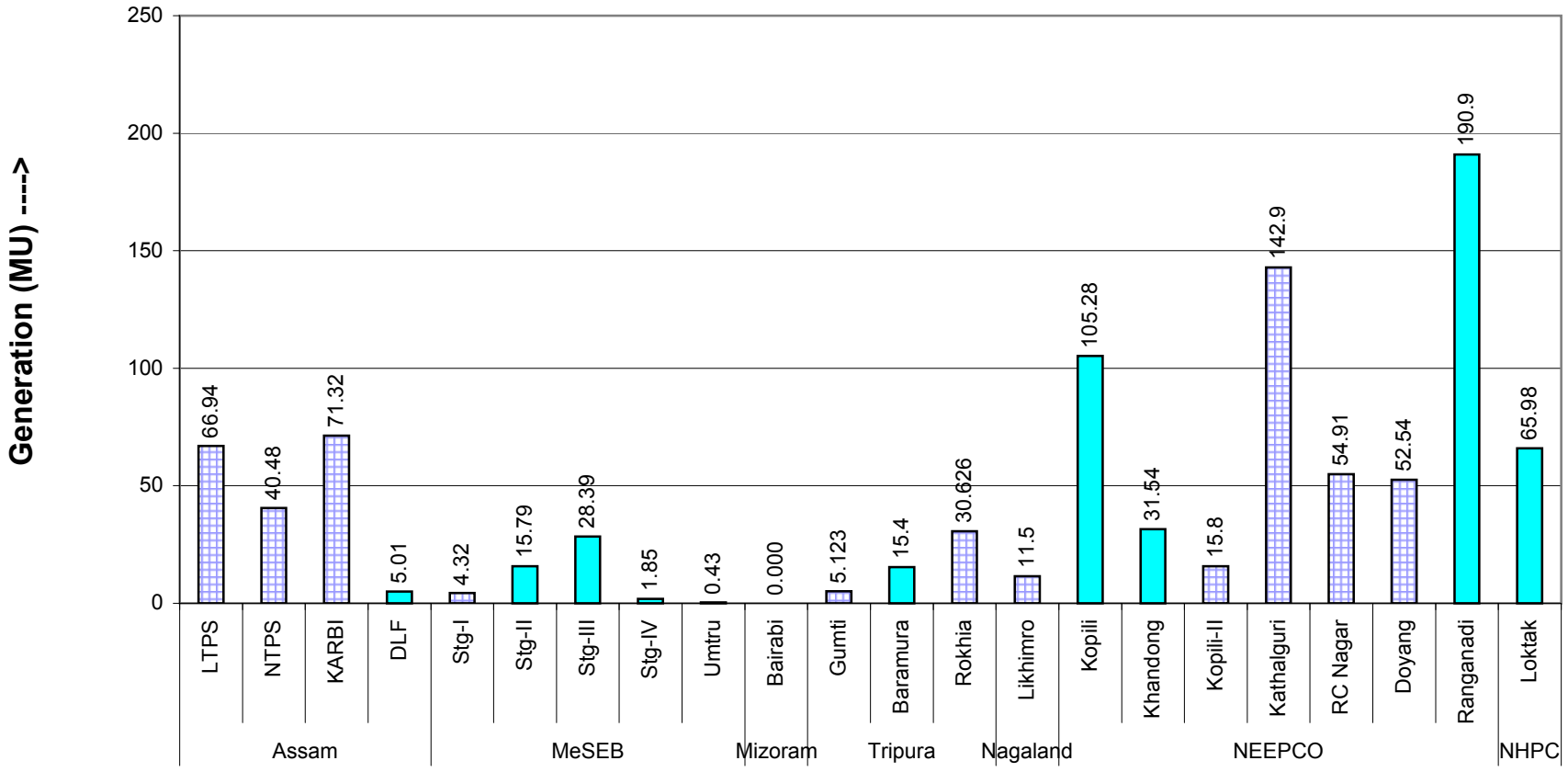


Exhibit-V

NER States Energy Scenario in August, 2010

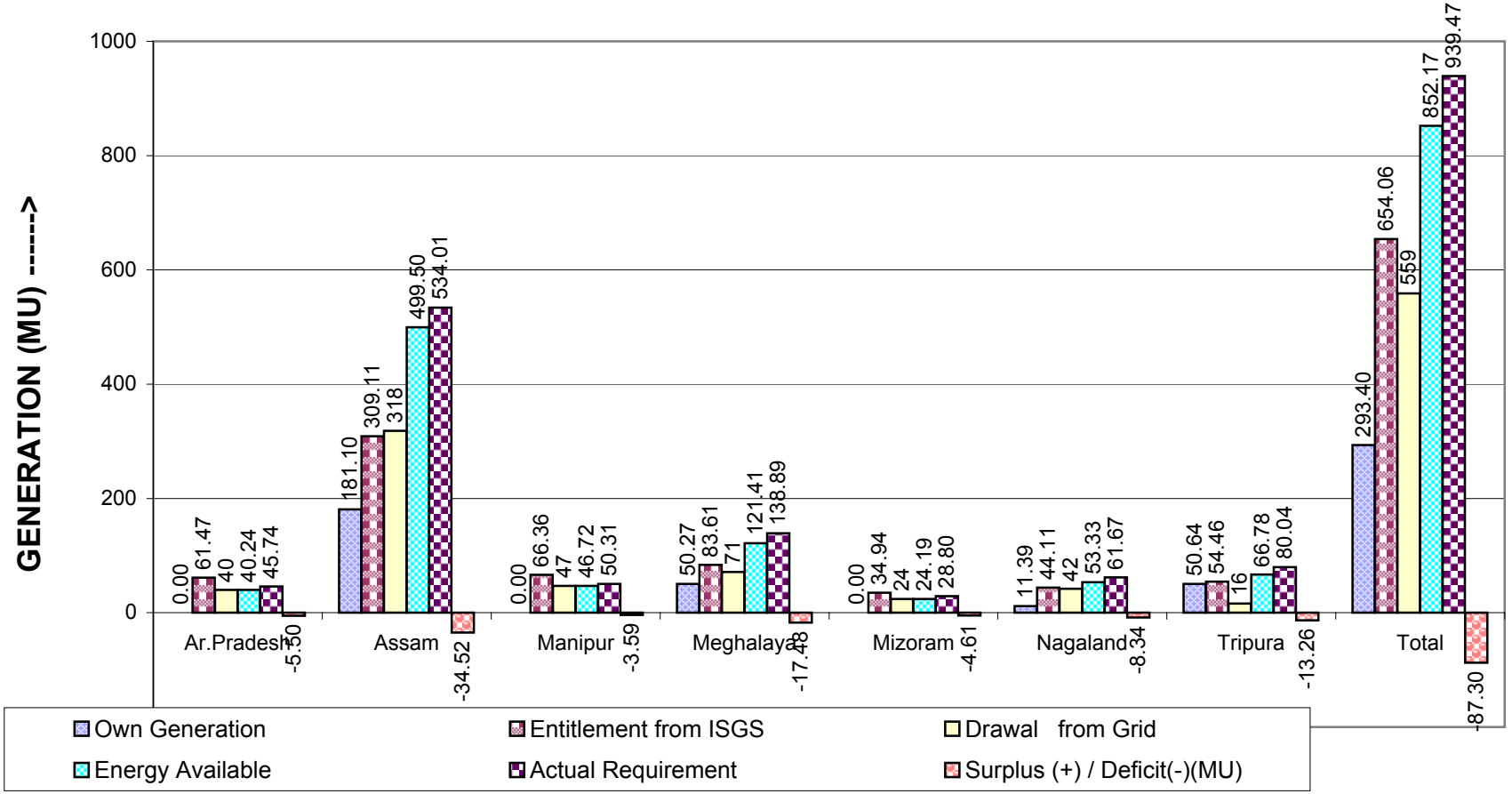


Exhibit-VI

Reservoir Statistics of NER in August, 2010