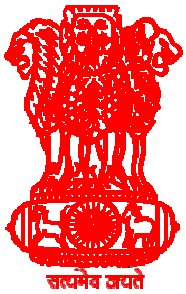

भारत सरकार Government of India
विद्युत मंत्रालय Ministry of Power
केंद्रीय विद्युत प्राधिकरण
Central Electricity Authority

उत्तर पूर्वी क्षेत्रीय विद्युत समिति
North Eastern Regional Power Committee

शिलोंग Shillong

Progress Report

For the month of

September, 2011

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NORTH EASTERN REGIONAL POWER COMMITTEE

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

- The maximum unrestricted demand during the month of September, 2011 was 1876 MW, which was 1905 MW in the month of August, 2011. The peak demand met in NER during the period under review was 1690 MW, which was 1698 MW last month.

- The energy requirement during the month of September, 2011 was 1018.15 MU, which was 1040.64 MU in the month of August, 2011. The energy availability in NER during the period under review was 936.45 MU, which was 942.79 MU last month.

- The maximum, minimum & average system frequency were 50.74, 48.85 & 49.92 Hz respectively. The maximum, minimum & average FVI were 4.720, 0.180 & 0.503 respectively. The average FVI was less than its previous month's figure. (refer Annex-II).

- Maximum export of power from NER to ER was 415 MW (on 19/09/11 at 03:25 hrs) and that from ER to NER was 356 MW (01/09/11 at 00:01 hrs). Total net energy import during the month was 45.101 MU (from ER).

SALIENT FEATURES OF
NORTH EASTERN REGIONAL GRID FOR SEPTEMBER, 2011

1	New unit/ transmission lines/Transformers commissioned during this month		**LTPS Unit # VIII**	
2	Number of total grid disturbance during this month		**Nil**	
			Sep-11	**Sep-10**
3	**Installed Capacity** of the Region (in MW)(grid)		2091.32	2054.12
4	**Energy Generation in MU (Gross)::**			
	Thermal		350.962	364.369
	Hydel		548.346	592.520
	Diesel / Oil		0.000	0.000
	Total		899.308	956.889
5	**Demand in MW ::**			
	Registered Peak demand		1876.00	1844.00
	Peak demand met		1690.00	1509.00
	Shortage (% age)		-9.91	-18.17
6	**Regional Energy(Gross) in MU ::**			
	Energy requirement		1018.15	910.91
	Energy availability		936.45	815.61
	Surplus (+) / Deficit (-) (% age)		-8.02	-10.46
7	**Inter Regional Energy Exchange in MU ::**			
	NER ----> ER		22.681	146.785
	ER ----> NER		67.782	46.757
	Net Import		45.101	100.03
8	**Frequency profile ::**			
	Average frequency (Hz)		49.92	49.98
	Average Frequency Variation Index		0.503	0.449
9	Load Factor (in %)		69.33	61.43

ENERGY GENERATION IN THE REGION FOR THE MONTH OF Sep-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	58.343	57.760	0.000	0.000	67.404	66.730	40.240	39.033	165.987	163.522
Meghalaya	57.440	56.866	0.000	0.000	0.000	0.000	0.000	0.000	57.440	56.866
Mizoram	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tripura	5.308	5.255	0.000	0.000	59.169	58.578	0.000	0.000	64.477	63.832
Nagaland	14.918	14.769	0.000	0.000	0.000	0.000	0.000	0.000	14.918	14.769
Total (State Sector)									**302.822**	**298.989**
Central Sector :										
NEEPCO :										
Khd+Kop+Kop-II	153.261	151.728	0.000	0.000	0.000	0.000	0.000	0.000	153.261	151.728
K'guri	0	0	0.000	0.000	0	0	130.140	126.236	130.140	126.236
RCNagar	0	0	0	0	55.923	55.364	0	0	55.923	55.364
Doyang	50.235	49.733	0	0	0	0	0	0	50.235	49.733
Ranganadi	125.063	123.812	0	0	0	0	0	0	125.063	123.812
NHPC :										
Loktak	69.144	68.452	0.000	0.000	0.000	0.000	0.000	0.000	69.144	68.452
Total (Central Sector)									583.766	575.326
Total NER	533.711	528.374	0.000	0.000	182.496	180.671	170.380	165.269	**886.588**	**874.315**

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.	52.93	48.28	4.66	8.79%	113	108	5	4.81%
Assam	574.61	544.99	29.63	5.16%	1069	990	79	7.41%
Manipur	50.11	46.67	3.45	6.87%	111	104	7	6.12%
M'laya	165.64	131.26	34.38	20.76%	286	259	27	9.44%
Mizoram	31.63	29.00	2.64	8.33%	61	56	5	7.50%
Nagaland	55.96	53.78	2.18	3.90%	105	103	2	2.25%
Tripura	87.25	82.49	4.77	5.47%	186	185	1	0.77%
REGION	1018.15	936.45	81.70	8.02%	1876	1690	186	9.90%

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	108.00	10/09/2011	49.55	1.46	4	113.46
Assam	990.00	12/09/2011	49.69	9.21	70	1069.21
Manipur	104.00	13/09/2011	49.75	0.78	6	110.78
Meghalaya	259.00	23/09/2011	49.87	1.01	26	286.01
Mizoram	56.20	10/09/2011	49.55	0.76	4	60.76
Nagaland	103.00	02/09/2011	49.88	0.37	2	105.37
Tripura	185.00	30/09/2011	49.92	0.44	1	186.44
REGION	1690.00	12/09/2011	49.69	15.72	170	1875.72

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

ESTIMATION OF ENERGY REQUIREMENT (in MU)

Average Frequency 49.92 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	48.004	6.510	48.279	-6.235	48.279	0.123	4.53	52.934
Assam	163.522	277.779	67.208	381.463	36.476	544.985	1.384	28.24	574.612
Manipur	0.000	60.415	0.000	46.669	-13.745	46.669	0.119	3.33	50.114
M'laya	56.866	72.139	20.394	74.394	-18.138	131.260	0.333	34.05	165.641
Mizoram	0.000	30.488	3.889	28.997	-5.380	28.997	0.074	2.56	31.632
Nagaland	14.769	39.730	12.729	39.009	-13.450	53.778	0.137	2.05	55.960
Tripura	63.832	47.492	0.000	18.653	-28.839	82.485	0.209	4.56	87.254
REGION	298.989	576.046	110.730	637.464	-49.312	936.453	2.378	79.32	1018.149

*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-11	Sep-10
	STATE SECTOR : HYDRO				
	ASSAM :: HYDRO				
1	KARBI HEP U - 1	50.00	50.80	30.209	12.970
2	KARBI HEP U - 2	50.00	50.80	28.134	35.410
	TOTAL	100.00		58.343	48.380
	MEGHALAYA :: HYDRO				
1	STAGE - 1	36.00	29.00	10.110	4.010
2	STAGE - 2	18.00	0.00	0.000	16.140
3	STAGE - 3	60.00	60.20	14.270	27.090
4	STAGE - 4	60.00	60.89	29.080	0.240
5	UMTRU	11.20	4.00	3.560	0.000
	TOTAL	185.20		57.020	47.480
	NAGALAND :: HYDRO				
6	LIKIMRO - 1				
7	LIKIMRO - 2	24.00	24.00	14.918	8.500
8	LIKIMRO - 3				
	TOTAL	24.00		14.918	8.500
	TRIPURA :: HYDRO				
9	GUMTI - 1	5.00	Gumti Stn. Peak =6.5 MW	0.000	0.000
10	GUMTI - 2	5.00		2.697	2.020
11	GUMTI - 3	5.00		2.611	2.060
	TOTAL	15.00		5.308	4.080
	TOTAL STATE (HYDRO) :	324.20		135.589	108.440

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-11	Sep-10
	STATE SECTOR : THERMAL/GAS				
	MIZORAM ::Thermal				
1	Bairabi	22.92	0.00	0.000	0.000
	TRIPURA :: THERMAL				
1	BARAMURA - 1	5.00	0.0	0.000	0.000
2	BARAMURA - 2	5.00	0.0	0.000	0.000
3	BARAMURA - 3	6.50	0.0	0.000	0.000
4	BARAMURA - 4	21.00	21.6	14.556	14.400
5	BARAMURA - 5	21.00	0.6	14.742	12.000
6	ROKHIA - 1	8.00		0.000	0.000
7	ROKHIA - 2	8.00		0.000	0.000
8	ROKHIA - 3	8.00		0.000	5.980
9	ROKHIA - 4	8.00	Rokhia Stn. Peak = 47.4MW	4.560	4.560
10	ROKHIA - 5	8.00		0.000	0.000
11	ROKHIA - 6	8.00		0.000	0.000
12	ROKHIA - 7	21.00		10.396	9.954
13	ROKHIA - 8	21.00		14.916	15.095
	TOTAL	148.50		59.169	61.989
	ASSAM :: THERMAL				
1	LTPS - 1	15.00	17.8	5.310	7.980
2	LTPS - 2	15.00	14.5	8.110	8.060
3	LTPS - 3	15.00	14.3	8.660	10.110
4	LTPS - 4	15.00	14.4	7.500	0.420
5	LTPS - 5	20.00	20.81	10.742	8.360
6	LTPS - 6	20.00	21.6	9.896	14.640
7	LTPS - 7	20.00	20.8	10.252	12.090
8	NTPS - 1	20.00	20.0	11.150	13.200
9	NTPS - 2	21.00	20.0	12.095	13.080
10	NTPS - 3	21.00	13.0	4.419	0.000
11	NTPS - 4	11.00	11.0	5.492	6.200
12	NTPS - 5	22.00	0.0	0.000	0.310
13	NTPS - 6	22.00	13.0	7.084	8.480
14	DLF	24.50	9.8	5.019	4.030
	TOTAL	261.50		105.729	106.960
TOTAL STATE THERMAL/GAS :		432.92		164.898	168.949
TOTAL SC GEN(HY+TH/GAS)		**757.12**		**300.487**	**277.389**

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-11	Sep-10
	CENTRAL SECTOR : HYDRO				
1	KHANDONG - 1	25.00	24.49	10.217	16.020
2	KHANDONG - 2	25.00	25.16	12.696	15.790
3	KOPILI Stg - II	25.00	24.97	15.055	15.750
4	KOPILI - 1	50.00	50.37	32.650	35.540
5	KOPILI - 2	50.00	54.98	34.303	0.000
6	KOPILI - 3	50.00	49.00	32.436	35.320
7	KOPILI - 4	50.00	49.99	30.959	35.050
8	DOYANG -1	25.00	24.63	16.725	17.510
9	DOYANG -2	25.00	23.75	16.631	17.140
10	DOYANG -3	25.00	24.17	16.880	17.590
11	LOKTAK - 1	35.00	39.63	22.776	16.720
12	LOKTAK - 2	35.00	40.58	22.790	24.400
13	LOKTAK - 3	35.00	38.09	23.577	22.150
14	RANGANADI - 1	135.00	137.15	40.672	77.830
15	RANGANADI - 2	135.00	136.81	36.483	53.940
16	RANGANADI - 3	135.00	140.72	47.908	83.330
TOTAL HYDRO :		**860.00**		**412.758**	**484.080**
	CENTRAL SECTOR : THERMAL/GAS				
1	KATHALGURI - 1	33.50	34.42	5.563	12.090
2	KATHALGURI - 2	33.50	32.16	9.289	19.920
3	KATHALGURI - 3	33.50	32.83	21.646	20.040
4	KATHALGURI - 4	33.50	33.10	22.102	15.820
5	KATHALGURI - 5	33.50	31.69	19.825	20.200
6	KATHALGURI - 6	33.50	32.28	21.118	20.540
7	KATHALGURI - 7	30.00	0.00	0.000	11.410
8	KATHALGURI - 8	30.00	24.79	14.558	13.890
9	KATHALGURI - 9	30.00	25.29	16.042	15.620
10	R.C.NAGAR - 1	21.00	21.69	14.227	11.390
11	R.C.NAGAR - 2	21.00	20.27	13.846	5.620
12	R.C.NAGAR - 3	21.00	21.00	13.743	14.070
13	R.C.NAGAR - 4	21.00	21.19	14.107	14.810
TOTAL THERMAL/GAS :		375.00		186.063	195.420
TOTAL CS (HY + TH/GAS) :		1235.000		598.821	679.500
TOTAL NER GEN(HY+TH/GAS) :		**1992.120**		**899.308**	**956.889**

Plant Load Factor (PLF) and Voltage Profile : Sep-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	60.470	69.99
2	NTPS*	AEGCL	117.00	40.240	47.77
3	Baramura	Tripura	58.50	29.298	69.56
4	Rokhia	Tripura	90.00	29.872	46.10
5	AGBPP	NEEPCO	291.00	130.140	**62.11**
6	AGTPP	NEEPCO	84.00	55.923	92.47

*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	430	381
2	MISA 400 kV	427	395
3	MISA 220 kV	229	209
4	SALAKATI 220 kV	222	217
5	HAFLONG 132 kV	137	127
6	AIZAWL 132kV	135	115
7	KUMARGHAT 132kV	135	124

Voltage Range in kV as percentage of time for the block

SUB-STATION	kV < 360	360<kV<380	380<kV<420	kV>420
MISA	3.52%	0.00%	94.43%	2.05%
BALIPARA	0.00%	0.00%	96.13%	3.87%

1 **INTER - REGIONAL EXCHANGE :**

All Fig in MU

NER to ER	22.681
ER to NER	67.782
NET IMPORT	45.101

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

3	**MEETING HELD BY NERPC DURING THIS MONTH**	1. 65th OCC Meeting was held on 09.09.11 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 Sep-11

Organisation	Actual (MU)	Schedule (MU)	UI Energy (MU)	UI Receivable (Rs. in Lakhs)	UI Payable (Rs. in Lakhs)
Arunachal Pradesh	48.279	55.142	-6.855	292.696	15.199
ASEB	381.463	366.285	15.178	152.586	441.659
Manipur	46.669	68.201	-21.531	613.101	0.702
MeSEB	74.394	83.101	-8.707	318.302	14.573
Mizoram	28.997	28.535	0.462	58.102	60.256
Nagaland	39.009	42.182	-3.173	126.679	228.873
Tripura	18.653	20.867	-2.214	187.018	66.251

Entitlement, Schedule, Drawal and UI Charges Sep-11

Name of beneficiaries	Entit. from scheduled energy from ISGS in NER (Ex-PP State)	Entit. from scheduled energy from ISGS in ER (Ex-PP State)	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	48.004	6.510	54.514	55.142	48.279	-6.855	2.775
ASEB	277.779	67.208	344.987	366.285	381.463	15.178	-2.891
Manipur	60.415	0.000	60.415	68.201	46.669	-21.531	6.124
MeSEB	72.139	20.394	92.532	83.101	74.394	-8.707	3.037
Mizoram	30.488	3.889	34.377	28.535	28.997	0.462	-0.022
Nagaland	39.730	12.729	52.459	42.182	39.009	-3.173	-1.022
Tripura	47.492	0.000	47.492	20.867	18.653	-2.214	1.208

(Source : UI A/c, NERPC)

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

States	Schedule From ISGS(MWH)	Bilateral Schedule from Outside NER (MWH)	Total Schedule (MWH)	Ex.PP. Drawal (MWH)	Tr. Energy (MWH)
Arunachal Pradesh	48338.57	6602.48	54941.04	48128.46	54941.04
ASEB	279216.86	68159.48	347376.33	379277.74	379277.74
Manipur	60837.50		60837.50	46480.13	60837.50
MeSEB	77322.83	20682.58	98005.40	74714.83	98005.40
Mizoram	30672.87		30672.87	29000.08	30672.87
Nagaland	40010.98	12909.55	52920.53	38988.48	52920.53
Tripura	47619.72		47619.72	18038.69	47619.72
Total	584019.32	108354.08	692373.40	634628.40	724274.80

ISGS	Schedule (MWH)	Injection (MWH)
LOKTAK	66330.62	68141.63
KHANDONG	22788.40	22819.66
KOPILI-I	126497.15	129687.87
KOPILI-II	14843.50	14881.61
DHEP	48402.42	48578.07
RHEP	123118.95	123910.78
AGTPP	54380.03	54655.62
AGBPP	127658.26	126852.01
Total	584019.32	589527.25

Source : Provisional REA for the month: Sep-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*	75.1117 *	*As per CERC order dated 30.09.2011 in petition No 294/2009.
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*	33.886 *	*As per CERC order dated 30.09.2011 in petition No 297/2009.
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	233.81 *	As per CERC order dated 6.9.2011 in Pet.No295 / 2009
AGTPP	84	NA	67.9814 *	Base Rate of energy Charge as per the CERC Order *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:- 19.09.2011

All figures in MW

HRS.	Total ISGS Injection (MW)	STATE SECTOR													ER	Total N.E.R GEN	Total Demand Met	Gross Demand met	Actual Loss	Total Drawal by States
		ASEB			MeSEB			Tripura			Manipur	Mizoram	Nagaland	ArPr						
		GEN	Drawal	Demand Met	GEN	Demand Met	Drawal	GEN	Demand Met	Drawal	DM	DM	DM	DM	IMPORT(+)/ EXPORT(-)					
1	1082.23	236	468.07	704.2	47	111.3	158.57	102	27.1	129.31	32.86	23.28	51.74	50.10	-286.03	1467.87	1000.49	1032.39	31.9	1050.33
2	1086.96	162	439.58	601.2	47	103.4	150.60	103	21.1	123.74	30.75	21.96	50.60	51.80	-333.77	1398.41	880.79	914.88	34.1	1052.87
3	1088.20	176	413.80	589.5	53	98.8	152.08	103	18.2	121.08	26.67	21.50	50.03	52.03	-371.69	1420.12	856.68	892.31	35.6	1052.58
4	1072.47	221	400.83	622.1	53	100.8	154.16	103	15.2	117.83	25.94	21.38	50.41	51.86	-376.56	1449.78	887.70	917.29	29.6	1042.88
5	1078.56	251	371.24	622.5	54	100.2	153.70	102	11.2	113.51	42.16	22.46	54.39	52.99	-390.04	1485.75	905.87	939.91	34.0	1044.52
6	1077.01	237	315.42	552.6	53	117.9	171.31	103	-2.9	99.84	69.96	34.21	61.17	54.83	-385.91	1470.33	887.82	928.38	40.6	1036.44
7	1086.30	243	331.42	574.8	54	135.9	189.50	103	-3.5	98.99	72.74	47.66	56.66	58.70	-344.59	1485.80	942.98	985.20	42.2	1044.08
8	1080.07	225	363.02	587.6	60	118.4	150.50	103	0.4	103.02	78.35	43.47	44.42	61.52	-339.78	1467.10	934.16	964.99	30.8	1049.25
9	1087.88	229	392.24	621.0	69	103.1	178.18	102	3.1	105.27	72.44	37.92	36.99	53.82	-353.27	1487.79	928.41	963.50	35.1	1052.79
10	1090.41	239	444.07	683.5	69	117.5	186.01	102	-0.1	102.11	60.50	35.63	50.57	55.47	-297.18	1500.58	1002.98	1032.72	29.7	1060.67
11	1045.51	218	467.26	684.9	53	86.2	139.32	103	-1.3	101.18	56.57	30.56	47.95	54.44	-272.35	1418.80	959.19	990.85	31.7	1013.85
12	1050.92	223	458.48	682.0	53	123.2	176.47	102	7.9	109.82	56.17	33.52	48.84	50.21	-248.27	1429.55	1001.84	1026.22	24.4	1026.55
13	780.66	238	502.22	740.3	24	94.4	118.61	102	7.0	109.09	40.23	31.29	51.66	55.55	15.76	1145.08	1020.44	1034.60	14.2	766.50
14	806.62	237	521.60	758.8	48	87.6	135.43	102	12.2	114.38	68.29	35.16	53.39	56.00	44.44	1193.81	1071.47	1088.35	16.9	789.74
15	831.70	229	484.25	712.9	48	90.1	137.73	102	11.3	113.11	65.82	40.64	56.37	55.32	11.29	1209.84	1032.49	1071.78	39.3	792.41
16	811.21	121	473.27	594.4	9	102.8	111.78	102	14.5	116.55	63.97	54.52	60.83	57.94	36.65	1043.40	948.87	969.05	20.2	791.02
17	927.10	144	541.24	685.2	59	115.9	174.56	103	17.6	120.25	66.29	54.01	60.72	66.16	28.68	1232.40	1065.94	1099.96	34.0	893.07
18	1098.21	186	736.69	922.8	77	128.2	205.29	103	80.8	183.35	74.66	61.01	70.92	78.42	201.78	1463.91	1416.84	1486.27	69.4	1028.78
19	1101.88	217	732.77	950.2	107	61.6	168.87	103	70.1	172.71	85.30	61.26	61.37	81.56	110.81	1529.13	1371.39	1430.27	58.9	1043.00
20	1091.78	227	731.04	958.2	97	82.8	180.31	102	67.4	169.86	80.80	58.41	64.70	92.39	118.38	1518.90	1404.77	1437.54	32.8	1059.01
21	1069.96	219	741.67	960.5	98	85.4	183.04	103	73.5	176.36	87.37	53.52	65.14	90.47	170.87	1489.29	1415.85	1459.81	44.0	1026.01
22	1023.82	224	675.95	900.4	100	78.2	177.79	103	60.3	162.85	81.36	46.50	63.85	80.02	87.90	1450.38	1310.57	1336.30	25.7	998.09
23	939.38	227	643.59	870.7	99	82.8	181.99	103	52.3	155.39	69.37	36.20	57.75	65.59	84.16	1368.80	1234.67	1250.73	16.1	923.32
24	781.79	223	544.12	767.3	99	86.6	185.48	103	36.1	139.16	59.64	30.33	53.25	63.72	100.37	1206.93	1096.96	1105.45	8.5	773.30
Max	1101.88	251	741.67	960.47	107	135.9	205.29	103	80.8	183.35	87.37	61.26	70.92	92.39	201.78	1529.13	1416.84	1486.27	69.4	1060.67
Min	780.66	121	315.42	552.62	9	61.6	111.78	102	-3.5	98.99	25.94	21.38	36.99	50.10	-390.04	1043.40	856.68	892.31	8.5	766.50

HOURLY DATA ON MINIMUM DEMAND MET DAY

DATE: 03.09.2011

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	584.39	246	554.5	800.36	52	98.8	150.72	76	35.85	111.82	38.01	24.51	49.15	64.73	297.74	958.2	941.5	958.08	16.6	567.79
2	586.86	246	525.0	771.23	52	95.0	146.70	76	30.85	106.78	27.26	23.85	44.03	62.66	247.18	960.7	884.6	909.95	25.3	561.53
3	589.14	246	503.4	749.46	48	92.6	140.25	76	29.43	105.38	22.25	24.05	46.94	58.78	208.74	958.8	853.4	873.80	20.4	568.71
4	583.84	244	502.8	747.03	54	91.2	144.86	76	26.57	102.56	25.64	25.44	47.30	63.77	215.50	957.8	858.6	875.30	16.7	567.18
5	584.69	244	458.7	703.22	54	93.9	147.53	76	22.50	98.48	31.55	27.98	51.73	63.46	178.66	958.8	825.8	839.31	13.5	571.21
6	713.66	244	366.1	609.65	54	93.9	147.48	76	11.16	87.09	52.14	39.44	62.13	64.84	0.70	1086.7	765.7	791.96	26.3	687.36
7	708.65	244	368.7	612.39	70	99.9	169.80	76	14.78	90.71	55.50	47.66	45.47	73.05	15.28	1098.1	781.0	799.83	18.8	689.85
8	706.87	242	392.2	633.84	79	92.1	170.89	76	20.56	96.36	72.94	46.79	41.29	64.55	44.02	1103.2	806.2	826.67	20.5	686.36
9	690.09	232	413.7	645.20	79	94.1	172.91	76	21.25	96.91	73.27	41.93	37.25	63.29	75.65	1076.1	820.4	841.36	20.9	669.14
10	664.87	220	437.3	657.19	56	88.2	144.65	76	24.54	100.14	67.95	39.17	38.58	48.58	95.64	1016.8	819.9	836.08	16.2	648.65
11	666.23	244	464.2	708.20	62	84.6	147.04	75	26.13	101.54	62.92	38.20	39.36	56.91	116.76	1048.1	847.7	858.37	10.7	655.55
12	664.41	245	508.6	753.13	62	80.2	142.63	75	25.48	100.88	47.59	40.75	37.88	59.91	110.40	1046.8	875.8	850.18	-25.6	690.00
13	595.38	237	531.9	769.00	57	79.9	137.40	75	34.77	110.13	41.37	41.31	40.40	56.78	241.90	965.4	901.8	912.62	10.9	584.53
14	591.07	245	556.6	801.83	53	75.7	129.25	75	37.25	112.55	58.64	41.69	57.78	56.41	309.79	965.1	959.4	976.13	16.8	574.31
15	593.45	243	558.4	801.55	54	76.3	129.78	75	41.34	116.43	58.94	46.77	60.02	62.03	331.43	965.2	978.9	999.95	21.1	572.40
16	733.66	242	518.7	760.97	53	89.1	142.64	75	39.59	114.57	60.66	49.36	57.20	66.32	169.35	1104.4	955.9	977.97	22.0	711.63
17	740.79	244	471.7	715.88	54	56.5	110.01	75	36.00	111.21	61.44	52.16	42.52	74.96	88.29	1113.8	870.4	904.24	33.8	706.94
18	867.25	233	638.2	870.81	53	123.5	176.33	75	59.65	135.08	76.80	57.74	72.24	88.65	292.42	1228.2	1192.2	1235.05	42.9	824.39
19	1036.50	244	713.4	957.12	99	97.3	195.88	75	59.79	135.14	91.37	57.00	76.19	91.10	204.60	1454.1	1261.5	1316.40	54.9	981.62
20	1051.07	232	668.3	899.98	115	98.8	213.96	75	58.16	133.58	86.67	55.99	67.10	93.74	122.42	1473.4	1204.1	1248.87	44.7	1006.34
21	935.76	233	708.2	940.88	116	78.6	194.43	75	51.42	126.88	87.51	55.81	53.00	87.81	219.51	1359.8	1197.7	1230.68	33.0	902.81
22	952.14	236	727.1	963.37	129	70.7	199.88	76	53.68	129.23	88.15	45.88	68.85	84.29	202.42	1393.2	1214.1	1230.06	15.9	936.21
23	872.54	235	689.6	925.07	129	83.8	212.99	76	62.75	138.30	87.25	36.23	61.22	69.68	246.51	1312.7	1166.1	1194.59	28.5	844.06
24	734.22	235	655.1	890.11	101	96.5	197.53	76	60.90	136.43	72.15	30.07	57.45	62.76	305.59	1145.8	1110.5	1115.31	4.8	729.40
Max	1051.07	246	727.1	963.37	129	123.5	213.96	76	62.75	138.30	91.37	57.74	76.19	93.74	331.43	1473.4	1261.5	1316.40	54.9	1006.34
Min	583.84	220	366.1	609.65	48	56.5	110.01	75	11.16	87.09	22.25	23.85	37.25	48.58	0.70	957.8	765.7	791.96	-25.6	561.53

ANNEXURES
&
EXHIBITS

Annexure-I

RESERVOIR PARTICULARS OF THE MONTH : **Sep-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	718.10	21.93	717.35	19.58
KOPILI	609.5 M	592.83 M	609.15	98.20	608.55	91.30
LOKTAK	768.5 M	766.2 M	769.29	250.00	768.92	250.00
BARAPANI	3220 Ft	3150 Ft	3207.30	36.20	3208.90	37.55
GUMTI	93.55 M	83.6 M	88.50	10.12	88.85	11.38
DOYANG	333 M	306 M	323.15	33.00	322.70	30.00

Annexure-II

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

Frequency	(Freq.in Hz)	(Time: H:M)	(Date:D.M.Y)
1. Maximum frequency	50.74	02:59	16-Sep-11
2. Minimum frequency	48.85	19:12	08-Sep-11
3. Monthly average	49.92		

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-Sep-11	0.240	17-Sep-11	0.330
02-Sep-11	0.190	18-Sep-11	0.340
03-Sep-11	0.200	19-Sep-11	0.470
04-Sep-11	0.200	20-Sep-11	0.600
05-Sep-11	0.250	21-Sep-11	0.310
06-Sep-11	**0.180**	22-Sep-11	0.540
07-Sep-11	0.290	23-Sep-11	1.040
08-Sep-11	0.580	24-Sep-11	2.430
09-Sep-11	0.580	25-Sep-11	1.090
10-Sep-11	0.800	26-Sep-11	1.710
11-Sep-11	0.800	27-Sep-11	2.370
12-Sep-11	0.800	28-Sep-11	3.330
13-Sep-11	0.740	29-Sep-11	**4.720**
14-Sep-11	1.180	30-Sep-11	2.170
15-Sep-11	0.210		
16-Sep-11	0.510	**Average FVI**	**0.503**

Annexure-III

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

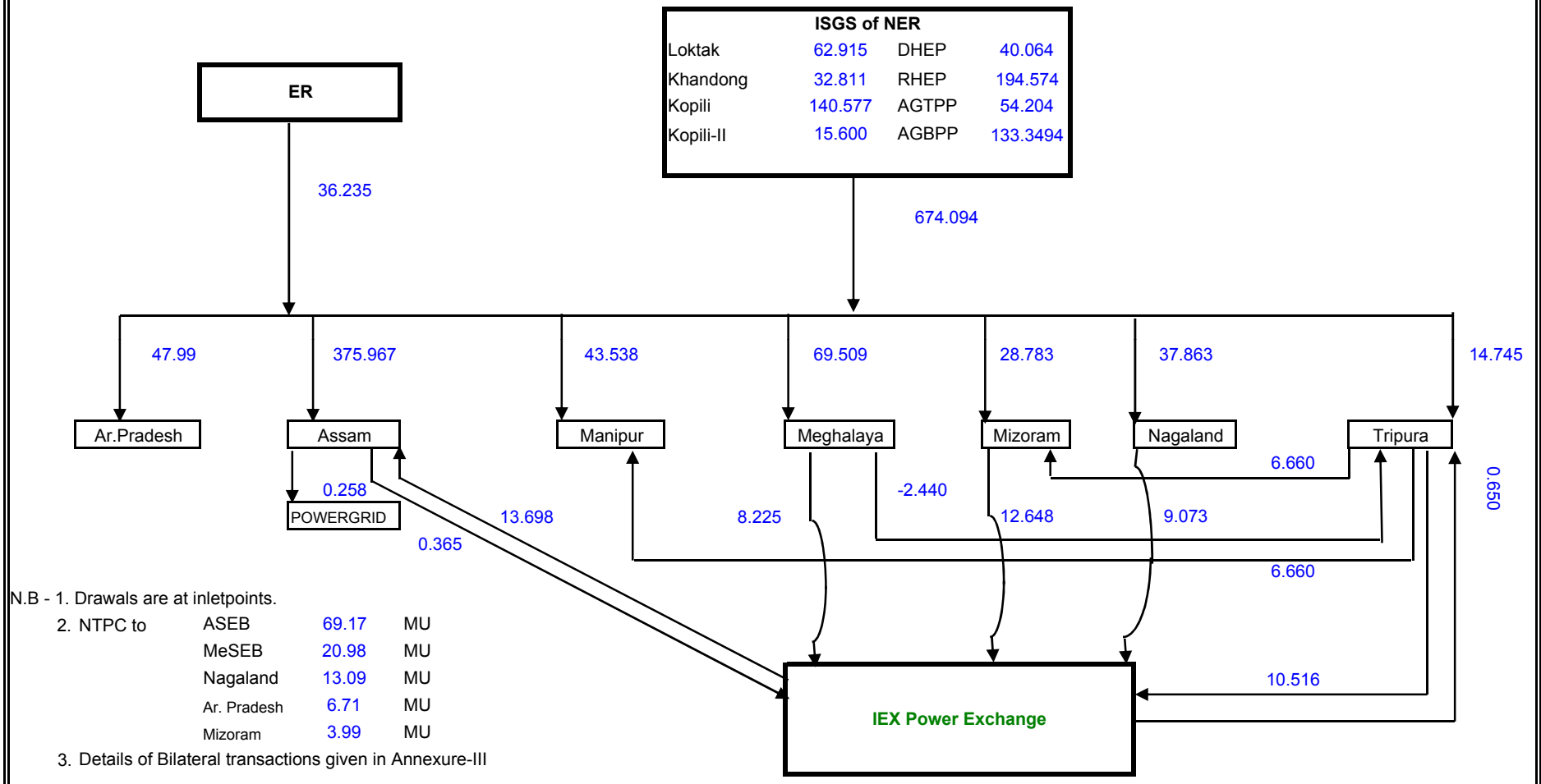
Sl.No.	From	To	Energy (At Seller Injn. Point) (MWH)		Energy (At State Periphery) (MWH)
1	Tripura (Baramura-IV)	Manipur	3349.062500		3255.764995
2	Tripura (Baramura-IV)	Mizoram	3349.062500		3255.764995
3	Tripura (Baramura-V)	Manipur	3310.750000		3218.578278
4	Tripura (Baramura-V)	Mizoram	3310.750000		3218.578278
5	MeECL	TSECL (NVVN)	-2440.000000		-2372.040000
6	ASEB	POWERGRID^	258.417600	^ 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	MeECL	WBSEDCL (NVVN)	-60.000000	-59.070000	
2	NAG	SOLARIS (NAG)	-1452.000000	-1432.320000	
3	TSECL	PSPCL (NVVN)	-5760.000000	-5677.440000	
4	Farakka*	Ar. Pradesh	2576.103275	2524.850000	2489.642275
5	Kahalgaon 1*	Ar. Pradesh	1808.913975	1776.675000	1751.817988
6	Talcher*	Ar. Pradesh	2329.969125	2300.950000	2268.670550
7	Farakka*	Assam	19253.116175	18961.100000	18696.763200
8	Kahalgaon 1*	Assam	9019.011250	8887.125000	8762.810637
9	Kahalgaon 2*	Assam	27865.673000	27439.625000	27057.035488
10	Talcher*	Assam	13033.390500	12871.625000	12691.062725
11	Farakka*	MeECL	4658.549050	4598.000000	4533.901225
12	Kahalgaon 1*	MeECL	3290.333300	3243.575000	3198.193863
13	Kahalgaon 2*	MeECL	8811.280000	8681.900000	8560.852550
14	Talcher*	MeECL	4215.302625	4159.100000	4100.756413
15	Farakka*	Nagaland	5019.473475	4940.925000	4872.053788
16	Kahalgaon 1*	Nagaland	3540.416275	3487.125000	3438.345400
17	Talcher*	Nagaland	4533.954250	4481.500000	4418.638563
18	Farakka*	Mizoram	1537.874125	1511.175000	1490.108875
19	Kahalgaon 1*	Mizoram	1066.055075	1066.600000	1051.681475
20	Talcher*	Mizoram	1390.165750	1366.600000	1347.426463
	Bilateral exchange through IEX Power Exchange (-ve means injection, +ve means drawal)				
21	Assam		-364.930000	-360.000000	
22	Assam			13892.320000	13698.280000
23	MeECL		-8225.260000	-8111.050000	
24	Mizoram		-12648.460000	-12471.000000	
25	Nagaland		-9072.740000	-8943.860000	
26	Tripura		-10516.020000	-10371.000000	
27	Tripura			660.000000	650.470000

Annexure-IV

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



N.B - 1. Drawals are at inletpoints.

2. NTPC to

ASEB	69.17	MU
MeSEB	20.98	MU
Nagaland	13.09	MU
Ar. Pradesh	6.71	MU
Mizoram	3.99	MU

3. Details of Bilateral transactions given in Annexure-III

Exhibit-I

Frequency Duration for September, 2011

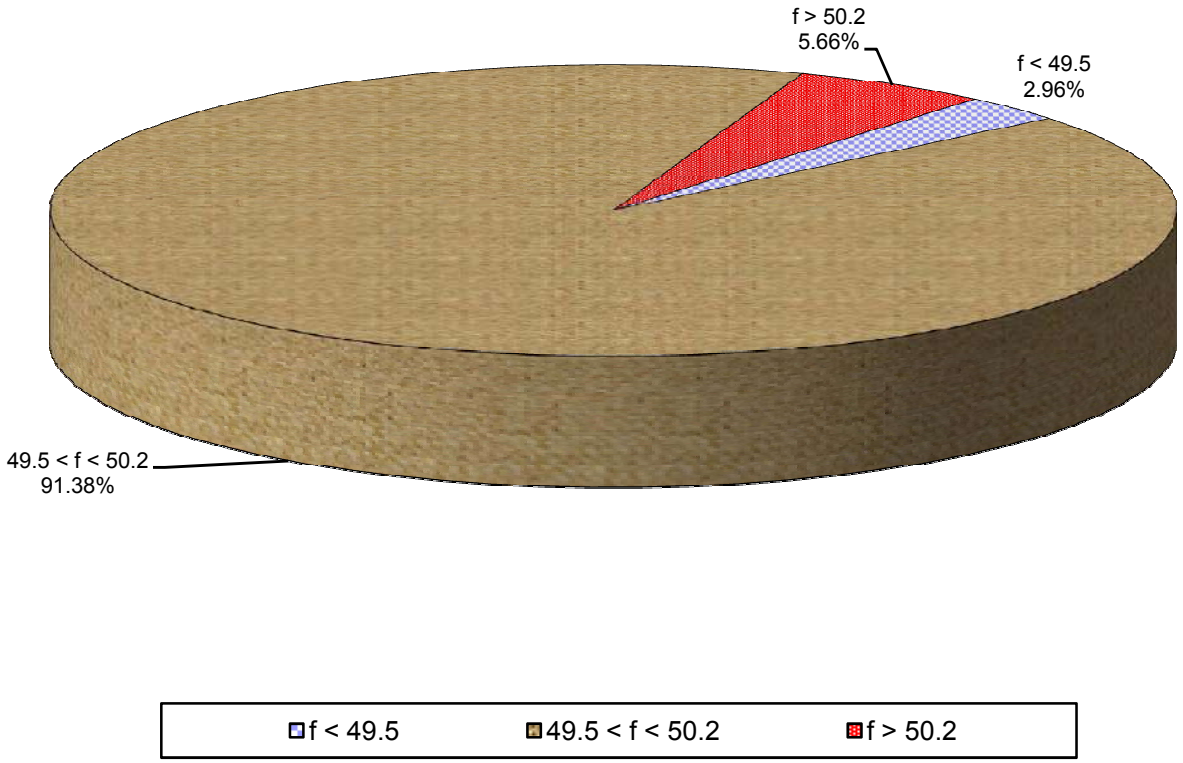


Exhibit-II

FVI Characteristics for September, 2011

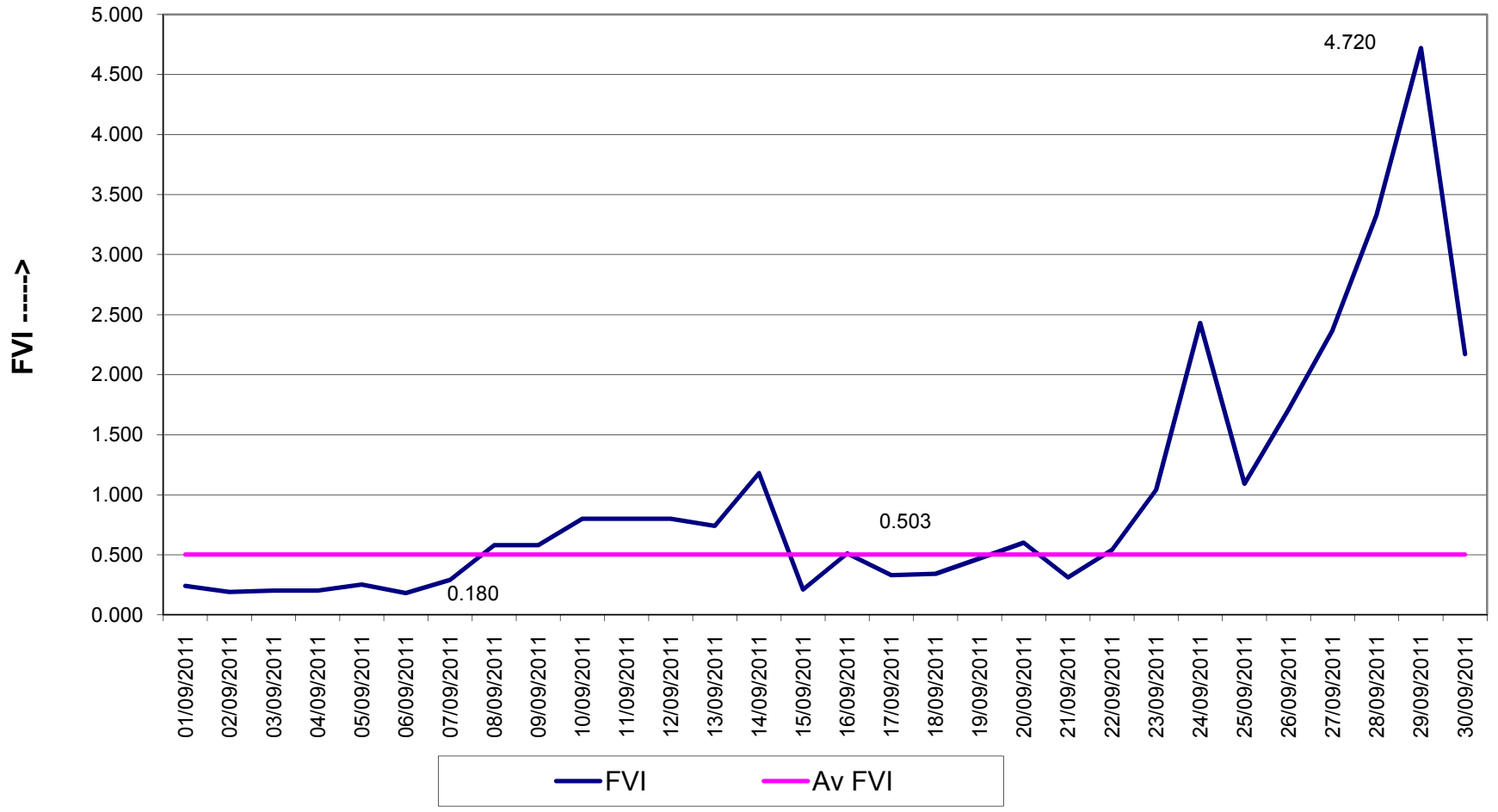


Exhibit-III

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

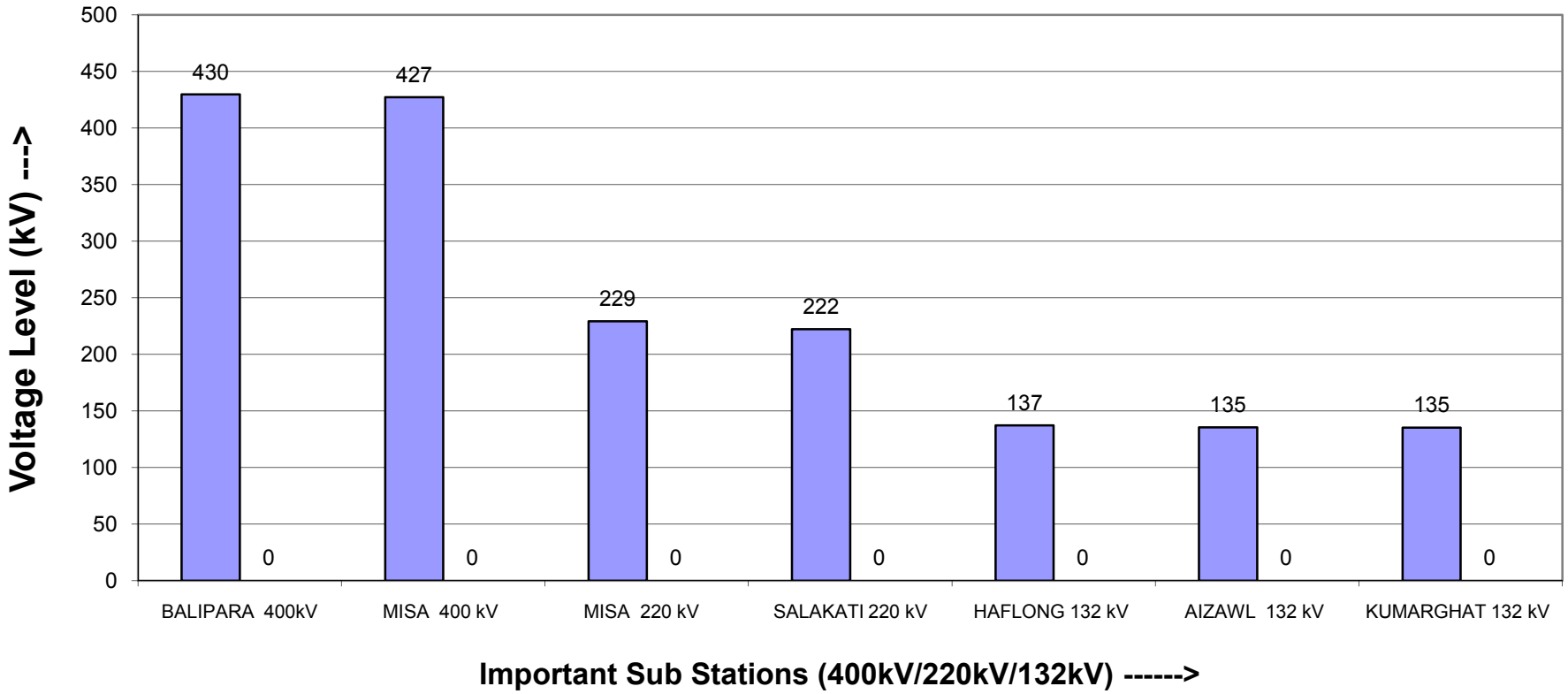


Exhibit-IV

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

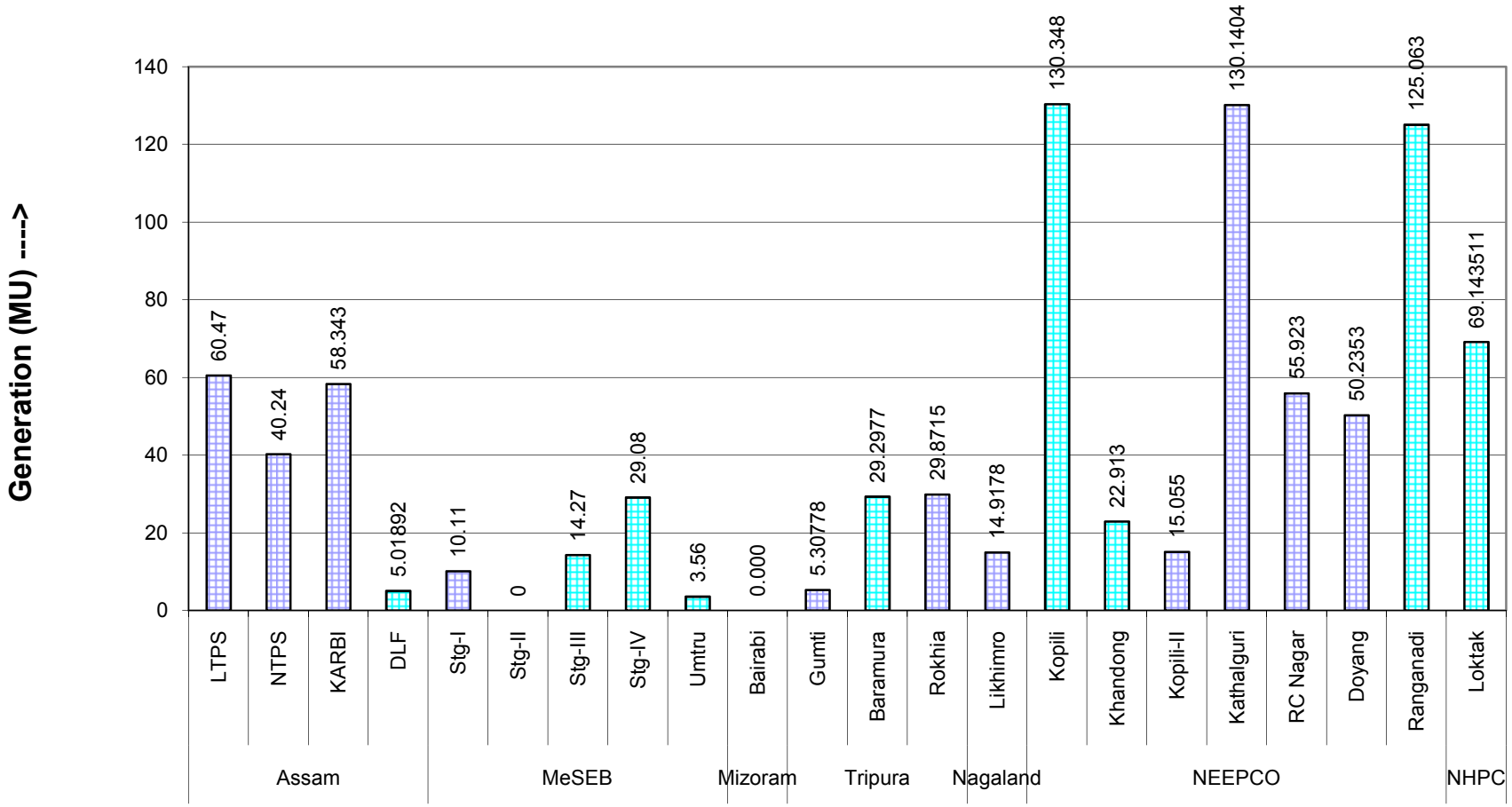


Exhibit-V

NER States Energy Scenario in September, 2011

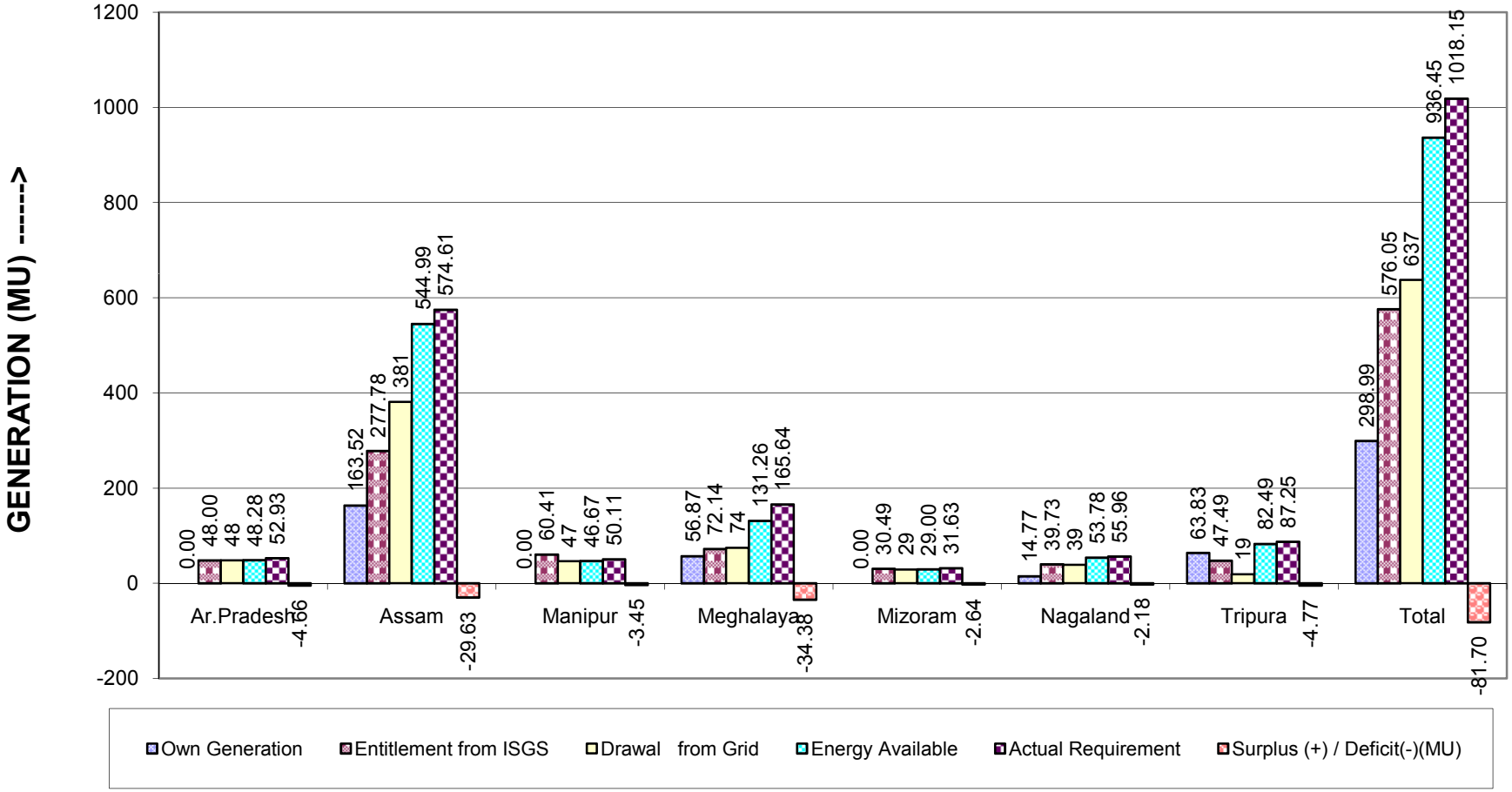


Exhibit-VI

Reservoir Statistics of NER in September, 2011