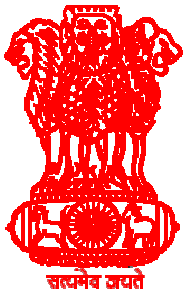


भारत सरकार Government of India
विद्युत मंत्रालय Ministry of Power
केंद्रीय विद्युत प्राधिकरण
Central Electricity Authority

उत्तर पूर्वी क्षेत्रीय विद्युत समिति
North Eastern Regional Power Committee

शिलोंग Shillong

Progress Report

For the month of

August, 2011

CONTENTS

NORTH EASTERN REGIONAL POWER COMMITTEE

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

- The maximum unrestricted demand during the month of August, 2011 was 1905 MW, which was 1920 MW in the month of July, 2011. The peak demand met in NER during the period under review was 1698 MW, which was 1660 MW last month.

- The energy requirement during the month of August, 2011 was 1040.64 MU, which was 934.53 MU in the month of July, 2011. The energy availability in NER during the period under review was 942.79 MU, which was 848.3 MU last month.

- The maximum, minimum & average system frequency were 50.74, 48.84 & 49.90 Hz respectively. The maximum, minimum & average FVI were 1.410, 0.200 & 0.615 respectively. The average FVI was more than its previous month's figure. (refer Annex-II).

- Maximum export of power from NER to ER was 556 MW (on 16/08/11 at 5:00 hrs) and that from ER to NER was 449 MW (20/08/11 at 21:00 hrs). Total net energy import during the month was 36.236 MU (from ER).

SALIENT FEATURES OF
NORTH EASTERN REGIONAL GRID FOR AUGUST, 2011

1	New unit/ transmission lines/Transformers commissioned during this month		**Nil**	
2	Number of total grid disturbance during this month		**Nil**	
			Aug-11	**Aug-10**
3	**Installed Capacity** of the Region (in MW)(grid)		2054.12	2054.12
4	**Energy Generation in MU (Gross)::**			
	Thermal		363.573	310.240
	Hydel		644.913	600.763
	Diesel / Oil		0.000	0.000
	Total		1008.486	911.003
5	**Demand in MW ::**			
	Registered Peak demand		1905.00	1754.00
	Peak demand met		1698.00	1465.00
	Shortage (% age)		-10.87	-16.48
6	**Regional Energy(Gross) in MU ::**			
	Energy requirement		1040.64	939.47
	Energy availability		942.79	852.17
	Surplus (+) / Deficit (-) (% age)		-9.40	-9.29
7	**Inter Regional Energy Exchange in MU ::**			
	NER ----> ER		95.612	126.463
	ER ----> NER		59.376	52.177
	Net Import		-36.236	74.29
8	**Frequency profile ::**			
	Average frequency (Hz)		49.90	49.86
	Average Frequency Variation Index		0.593	0.756
9	Load Factor (in %)		66.52	65.30

ENERGY GENERATION IN THE REGION FOR THE MONTH OF Aug-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	70.222	69.520	0.000	0.000	62.975	62.345	46.272	44.884	179.469	176.749
Meghalaya	67.220	66.548	0.000	0.000	0.000	0.000	0.000	0.000	67.220	66.548
Mizoram	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tripura	4.800	4.752	0.000	0.000	61.694	61.077	0.000	0.000	66.494	65.829
Nagaland	15.466	15.312	0.000	0.000	0.000	0.000	0.000	0.000	15.466	15.312
Total (State Sector)									**328.649**	**324.437**
Central Sector :										
NEEPCO :										
Khd+Kop+Kop-II	189.972	188.072	0.000	0.000	0.000	0.000	0.000	0.000	189.972	188.072
K'guri	0	0	0.000	0.000	0	0	137.148	133.034	137.148	133.034
RCNagar	0	0	0	0	55.484	54.929	0	0	55.484	54.929
Doyang	41.521	41.106	0	0	0	0	0	0	41.521	41.106
Ranganadi	191.880	189.961	0	0	0	0	0	0	191.880	189.961
NHPC :										
Loktak	63.833	63.194	0.000	0.000	0.000	0.000	0.000	0.000	63.833	63.194
Total (Central Sector)									679.838	670.296
Total NER	644.913	638.464	0.000	0.000	180.153	178.351	183.420	177.918	**1008.486**	**994.733**

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.	53.36	47.95	5.41	10.15%	102	103	-1	-1.46%
Assam	586.16	552.72	33.45	5.71%	1112	1014	98	8.81%
Manipur	48.61	43.54	5.07	10.44%	105	102	4	3.52%
M'laya	177.99	136.06	41.94	23.56%	301	261	40	13.36%
Mizoram	32.41	28.78	3.63	11.19%	60	53	7	11.97%
Nagaland	56.57	53.17	3.39	6.00%	106	102	4	3.61%
Tripura	85.53	80.57	4.96	5.80%	194	191	3	1.73%
REGION	1040.64	942.79	97.85	9.40%	1905	1698	207	10.85%

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	103.00	22/08/2011	49.51	1.51	-3	101.51
Assam	1013.88	29/08/2011	49.94	1.82	96	1111.82
Manipur	101.51	06/08/2011	49.60	1.22	2	105.22
Meghalaya	261.00	08/08/2011	49.84	1.25	39	301.25
Mizoram	53.00	05/08/2011	49.87	0.21	7	60.21
Nagaland	102.39	16/08/2011	49.60	1.23	3	106.23
Tripura	191.00	13/08/2011	50.11	-0.63	4	194.37
REGION	1698.00	12/08/2011	49.89	5.60	201	1904.60

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

ESTIMATION OF ENERGY REQUIREMENT (in MU)

Average Frequency 49.90 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	61.373	6.431	47.947	-19.857	47.947	0.147	5.27	53.361
Assam	176.749	316.961	63.150	375.967	-4.145	552.716	1.696	31.75	586.164
Manipur	0.000	65.598	0.000	43.538	-22.061	43.538	0.134	4.94	48.611
M'laya	66.548	87.500	18.877	69.509	-36.868	136.056	0.418	41.52	177.993
Mizoram	0.000	34.915	3.852	28.783	-9.984	28.783	0.088	3.54	32.410
Nagaland	15.312	43.182	12.518	37.863	-17.838	53.174	0.163	3.23	56.568
Tripura	65.829	52.743	0.000	14.745	-37.999	80.573	0.247	4.71	85.531
REGION	324.437	662.272	104.829	618.350	-148.751	942.787	2.893	94.96	1040.638

*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-11	Aug-10
	STATE SECTOR : HYDRO				
	ASSAM :: HYDRO				
1	KARBI HEP U - 1	50.00	50.90	34.420	35.480
2	KARBI HEP U - 2	50.00	51.15	35.802	35.840
	TOTAL	100.00		70.222	71.320
	MEGHALAYA :: HYDRO				
1	STAGE - 1	36.00	27.10	15.710	4.320
2	STAGE - 2	18.00	0.00	0.000	15.790
3	STAGE - 3	60.00	60.41	17.200	28.390
4	STAGE - 4	60.00	60.76	30.890	1.850
5	UMTRU	11.20	4.45	3.420	0.430
	TOTAL	185.20		67.220	50.780
	NAGALAND :: HYDRO				
6	LIKIMRO - 1				
7	LIKIMRO - 2	24.00	24.00	15.466	11.500
8	LIKIMRO - 3				
	TOTAL	24.00		15.466	11.500
	TRIPURA :: HYDRO				
9	GUMTI - 1	5.00	Gumti Stn. Peak =6.5 MW	0.000	0.000
10	GUMTI - 2	5.00		2.516	2.744
11	GUMTI - 3	5.00		2.284	2.379
	TOTAL	15.00		4.800	5.123
	TOTAL STATE (HYDRO) :	324.20		157.708	138.723

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-11	Aug-10
	STATE SECTOR : THERMAL/GAS				
	MIZORAM ::Thermal				
1	Bairabi	22.92	0.00	0.000	0.000
	TRIPURA :: THERMAL				
1	BARAMURA - 1	5.00	Baramura Stn. Peak = 21.3 MW	0.000	0.000
2	BARAMURA - 2	5.00		0.000	0.000
3	BARAMURA - 3	6.50		0.000	0.000
4	BARAMURA - 4	21.00		15.413	15.400
5	BARAMURA - 5	21.00		15.509	12.000
6	ROKHIA - 1	8.00	Rokhia Stn. Peak = 47.1MW	0.000	0.000
7	ROKHIA - 2	8.00		0.000	0.000
8	ROKHIA - 3	8.00		0.000	4.780
9	ROKHIA - 4	8.00		4.056	2.956
10	ROKHIA - 5	8.00		0.000	0.000
11	ROKHIA - 6	8.00		0.000	0.000
12	ROKHIA - 7	21.00		13.022	7.540
13	ROKHIA - 8	21.00		13.694	15.350
	TOTAL	148.50		61.694	58.026
	ASSAM :: THERMAL				
1	LTPS - 1	15.00	17.8	6.590	10.200
2	LTPS - 2	15.00	14.5	7.300	9.440
3	LTPS - 3	15.00	15.0	4.750	6.530
4	LTPS - 4	15.00	15.5	5.177	6.570
5	LTPS - 5	20.00	21.65	9.618	11.750
6	LTPS - 6	20.00	21.73	14.271	12.400
7	LTPS - 7	20.00	21.2	10.479	10.050
8	NTPS - 1	20.00	20.0	10.320	12.160
9	NTPS - 2	21.00	20.0	13.499	12.040
10	NTPS - 3	21.00	15.0	7.802	4.150
11	NTPS - 4	11.00	12.0	6.608	5.760
12	NTPS - 5	22.00	0.0	0.000	0.000
13	NTPS - 6	22.00	13.0	8.043	6.370
14	DLF	24.50	8.4	4.790	5.010
	TOTAL	261.50		109.247	112.430
TOTAL STATE THERMAL/GAS :		432.92		170.941	170.456
TOTAL SC GEN(HY+TH/GAS)		**757.12**		**328.649**	**309.179**

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-11	Aug-10
	CENTRAL SECTOR : HYDRO				
1	KHANDONG - 1	25.00	23.67	16.192	15.730
2	KHANDONG - 2	25.00	24.84	16.690	15.810
3	KOPILI Stg - II	25.00	24.21	15.777	15.800
4	KOPILI - 1	50.00	69.24	35.418	35.300
5	KOPILI - 2	50.00	54.72	36.612	0.000
6	KOPILI - 3	50.00	50.00	34.079	33.130
7	KOPILI - 4	50.00	51.15	35.204	36.850
8	DOYANG -1	25.00	24.29	5.206	17.620
9	DOYANG -2	25.00	25.33	18.014	17.240
10	DOYANG -3	25.00	25.57	18.300	17.680
11	LOKTAK - 1	35.00	38.70	21.302	17.740
12	LOKTAK - 2	35.00	37.30	22.679	24.350
13	LOKTAK - 3	35.00	36.93	19.852	23.890
14	RANGANADI - 1	135.00	137.71	64.459	63.390
15	RANGANADI - 2	135.00	135.36	61.222	54.840
16	RANGANADI - 3	135.00	143.29	66.199	72.670
TOTAL HYDRO :		**860.00**		**487.205**	**462.040**
	CENTRAL SECTOR : THERMAL/GAS				
1	KATHALGURI - 1	33.50	34.77	17.046	10.500
2	KATHALGURI - 2	33.50	32.98	19.129	21.200
3	KATHALGURI - 3	33.50	33.27	16.258	20.270
4	KATHALGURI - 4	33.50	34.15	9.107	18.980
5	KATHALGURI - 5	33.50	32.16	18.994	19.470
6	KATHALGURI - 6	33.50	33.33	21.351	13.690
7	KATHALGURI - 7	30.00	25.37	12.894	11.530
8	KATHALGURI - 8	30.00	24.35	6.945	15.060
9	KATHALGURI - 9	30.00	26.17	15.425	12.200
10	R.C.NAGAR - 1	21.00	21.97	14.472	14.190
11	R.C.NAGAR - 2	21.00	20.77	14.201	14.270
12	R.C.NAGAR - 3	21.00	21.83	14.237	13.530
13	R.C.NAGAR - 4	21.00	21.58	12.574	12.920
TOTAL THERMAL/GAS :		375.00		192.632	197.810
TOTAL CS (HY + TH/GAS) :		1235.000		679.838	659.850
TOTAL NER GEN(HY+TH/GAS) :		**1992.120**		**1008.486**	**969.029**

Plant Load Factor (PLF) and Voltage Profile : Aug-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	58.185	65.17
2	NTPS*	AEGCL	117.00	46.272	53.16
3	Baramura	Tripura	58.50	30.922	71.05
4	Rokhia	Tripura	90.00	30.772	45.96
5	AGBPP	NEEPCO	291.00	137.148	**63.35**
6	AGTPP	NEEPCO	84.00	55.484	88.78

*LTPS-- Lakwa Thermal Power Station, NTPS-- Namrup Thermal Power Station

VOLTAGE PROFILE :

A. MAXIMUM AND MINIMUM VOLTAGE (kV) OF IMPORTANT SUB - STATIONS :

Sl. No.	NAME OF S/S	MAXIMUM (kV)	MINIMUM (kV)
1	BALIPARA 400 kV	427	384
2	MISA 400 kV	430	397
3	MISA 220 kV	229	213
4	SALAKATI 220 kV	238	76
5	HAFLONG 132 kV	142	119
6	AIZAWL 132kV	139	117
7	KUMARGHAT 132kV	217	123

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	95.612
ER to NER	59.376
NET IMPORT	-36.236

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

3	**MEETING HELD BY NERPC DURING THIS MONTH**	1. Special TCC Meeting was held on 05.08.11 at Tripura.
		2. 64th OCC Meeting was held on 09.08.11 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	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 Aug-11

Organisation	Actual (MU)	Schedule (MU)	UI Energy (MU)	UI Receivable (Rs. in Lakhs)	UI Payable (Rs. in Lakhs)
Arunachal Pradesh	47.947	56.437	-8.448	255.668	51.649
ASEB	375.967	377.080	-1.113	435.552	459.170
Manipur	43.538	71.590	-28.052	769.942	0.107
MeSEB	69.509	81.286	-11.777	379.516	0.157
Mizoram	28.783	28.920	-0.137	59.380	65.212
Nagaland	37.863	28.459	9.404	0.000	241.854
Tripura	14.745	16.853	-2.108	170.346	109.062

Entitlement, Schedule, Drawal and UI Charges Aug-11

Name of beneficiaries	Entit. from scheduled energy from ISGS in NER (Ex-PP State) (in MU)	Entit. from scheduled energy from ISGS in ER (Ex-PP State) (in MU)	Total Entitlement (Ex-PP State) (in MU)	Schedule (Ex-PP State) (in MU)	Actual Drawal from Grid (MU)	Over Drawal (+) / Under Drawal ( ) (MU)	UI Payable (-)/ Receivable (+) (Rs. In Cr)
Arunachal Pradesh	61.373	6.431	67.803	56.437	47.947	-8.448	2.040
ASEB	316.961	63.150	380.111	377.080	375.967	-1.113	-0.236
Manipur	65.598	0.000	65.598	71.590	43.538	-28.052	7.698
MeSEB	87.500	18.877	106.377	81.286	69.509	-11.777	3.794
Mizoram	34.915	3.852	38.767	28.920	28.783	-0.137	-0.058
Nagaland	43.182	12.518	55.701	28.459	37.863	9.404	-2.419
Tripura	52.743	0.000	52.743	16.853	14.745	-2.108	0.613

(Source : UI A/c, NERPC)

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

States	Schedule From ISGS(MWH)	Bilateral Schedule from Outside NER (MWH)	Total Schedule (MWH)	Ex.PP. Drawal (MWH)	Tr. Energy (MWH)
Arunachal Pradesh	62161.73	6518.05	68679.78	49499.24	68679.78
ASEB	321465.46	64021.10	385486.56	387801.65	387801.65
Manipur	66465.61		66465.61	44908.15	66465.61
MeSEB	88658.58	19137.13	107795.71	71696.59	107795.71
Mizoram	35387.57		35387.57	29689.50	35387.57
Nagaland	43795.51	12688.58	56484.08	39054.59	56484.08
Tripura	53309.01		53309.01	15208.69	53309.01
Total	671243.46	102364.85	773608.31	637858.41	775923.40

ISGS	Schedule (MWH)	Injection (MWH)
LOKTAK	59989.42	62915.06
KHANDONG	32777.75	32811.02
KOPILI-I	139682.66	140576.56
KOPILI-II	15571.95	15599.83
DHEP	39902.12	40063.82
RHEP	194568.74	194574.23
AGTPP	54042.71	54203.94
AGBPP	134708.12	133349.43
Total	671243.46	674093.89

Source : Provisional REA for the month: Aug-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 2009-10

Projects	Installed Capacity (MW)	Design Energy (GWh)	Annual Fixed Charge (Rs. Crore)	Reference
KOPILI HEP	200	1186.14*	57.6738 *	*As per CERC order dated 19.02.08 in petition No 76/2007.
KOPILI -II	25	86.3*	12.9511 **	* Provisional, ** As per CERC order dated 01.01.08 in pet. No 70/2006
KHANDONG HEP	50	277.61*	19.6328 *	*As per CERC order dated 14.01.08 in petition No 26/2007.
RHEP*	405	1509.69	290.7301	*As per CERC order dated 10.05.2011 in petition No.296/2009.
DHEP	75	227.24	58.5 *	*As per CERC order dated 03.10.07 in petition No 88/2007.
AGBPP	291	NA	233.59 *	*As per CERC order dated 22.02.08 in Pet.No150/ /2005, ^ Base Rate of energy Charge as per CERC Order
AGTPP	84	NA	67.9814 *	*As per CERC order dated 11.03.11 in Pet.No 299/2009,^Base Engy. charge as per CERC order
LOKTAK HEP	105	448.00	95.7935 *	*As per CERC order dated 14.06.11 in Pet.No 108/2010

HOURLY DATA ON PEAK DEMAND MET DAY

DATE:- 19.08.2011

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	996.66	236	511.57	747.7	90	109.6	199.30	96	15.5	111.13	43.49	22.31	52.13	53.48	-162.37	1418.09	1044.18	1070.37	26.2	970.47
2	1072.67	162	557.28	718.9	72	125.7	197.39	96	10.5	106.47	31.52	21.83	50.87	53.11	-185.92	1401.95	1012.39	1048.32	35.9	1036.73
3	1089.21	176	549.53	725.2	52	116.4	168.01	96	7.2	102.83	31.07	20.62	50.68	50.22	-219.48	1412.19	1001.37	1045.40	44.0	1045.18
4	1073.92	221	486.71	708.0	56	114.7	170.44	96	4.0	99.83	32.86	20.91	49.75	50.28	-288.65	1446.75	980.55	1006.54	26.0	1047.92
5	1072.27	251	388.37	639.7	56	119.5	175.27	96	-1.1	94.49	36.46	23.56	52.87	51.95	-367.73	1474.83	923.00	955.81	32.8	1039.45
6	1084.90	237	376.15	613.3	79	112.0	190.65	96	-12.0	83.63	56.95	36.99	59.77	52.11	-357.51	1496.42	919.13	964.56	45.4	1039.46
7	1097.02	243	383.05	626.5	81	125.0	205.89	96	-12.2	83.46	68.60	50.00	56.02	56.79	-335.99	1516.96	970.67	1004.40	33.7	1063.28
8	1085.77	225	444.22	668.8	81	113.7	194.78	96	-5.6	90.34	56.09	49.58	50.34	56.03	-282.32	1487.43	988.91	1028.03	39.1	1046.65
9	1081.46	229	451.03	679.8	81	121.4	202.58	96	-3.7	91.97	48.87	36.40	49.88	51.50	-292.92	1487.15	984.16	1017.32	33.2	1048.30
10	1072.58	239	472.46	711.9	65	112.1	177.47	95	0.5	96.00	42.92	33.15	48.24	51.20	-274.30	1472.84	999.98	1037.66	37.7	1034.90
11	1040.14	218	518.07	735.7	65	102.1	167.50	95	-1.2	94.09	8.47	33.67	48.73	54.60	-243.92	1418.44	982.03	1013.79	31.8	1008.38
12	1083.96	223	509.92	733.4	77	102.9	180.03	95	3.9	98.67	49.93	34.60	47.20	55.68	-247.30	1479.39	1027.57	1060.11	32.5	1051.42
13	1083.08	238	517.62	755.7	71	69.7	141.21	94	5.6	99.56	53.05	34.33	49.41	54.75	-265.35	1486.61	1022.59	1055.80	33.2	1049.87
14	1083.60	237	544.88	782.1	89	91.8	180.99	95	9.4	104.09	55.25	37.71	52.74	56.77	-204.88	1504.67	1085.77	1115.90	30.1	1053.47
15	1044.28	229	556.26	785.0	66	83.5	149.09	94	13.1	107.31	57.80	45.75	59.19	54.44	-127.89	1432.75	1098.76	1145.07	46.3	997.97
16	570.83	121	340.17	461.3	78	0.0	77.53	94	10.9	105.02	42.09	0.00	48.01	46.59	-39.30	863.55	608.88	652.60	43.7	527.11
17	569.60	144	375.95	520.0	0	7.2	7.18	76	43.8	119.78	22.65	2.58	46.33	57.84	42.75	789.60	700.31	756.30	56.0	513.60
18	985.47	186	526.90	713.0	71	91.1	161.76	86	42.6	128.64	63.76	56.92	69.69	69.82	-5.42	1328.28	1106.90	1166.09	59.2	926.27
19	974.63	217	683.99	901.4	107	97.3	204.69	89	56.0	145.43	87.03	58.36	67.27	77.23	200.65	1388.76	1344.69	1392.63	47.9	926.69
20	997.58	227	686.43	913.6	141	92.7	233.40	96	58.2	154.19	90.84	55.58	66.22	76.31	172.66	1461.50	1353.47	1397.39	43.9	953.66
21	1004.95	219	685.75	904.6	147	89.2	235.73	96	52.9	148.93	93.23	52.14	64.85	73.72	150.05	1466.27	1330.63	1373.75	43.1	961.83
22	1073.91	224	690.57	915.0	147	82.9	229.55	96	51.4	147.44	86.20	43.44	59.56	71.42	50.57	1540.97	1309.92	1348.83	38.9	1035.00
23	1048.22	227	529.70	756.8	135	74.8	209.75	96	40.3	136.36	66.13	33.61	55.54	57.02	-156.35	1506.31	1084.23	1118.94	34.7	1013.51
24	1024.37	223	568.67	791.9	111	95.8	207.10	96	19.4	115.51	56.22	27.39	54.46	52.55	-125.91	1454.88	1097.79	1121.63	23.8	1000.52
Max	1097.02	251	690.57	914.97	147	125.7	235.73	96	58.2	154.19	93.23	58.36	69.69	77.23	200.65	1540.97	1353.47	1397.39	59.2	1063.28
Min	569.60	121	340.17	461.27	0	0.0	7.18	76	-12.2	83.46	8.47	0.00	46.33	46.59	-367.73	789.60	608.88	652.60	23.8	513.60

HOURLY DATA ON MINIMUM DEMAND MET DAY

DATE: 25.08.2011

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	810.05	234	485.9	720.02	60	88.8	148.84	96	15.94	112.01	39.05	27.76	47.33	46.67	-30.64	1200.2	847.6	875.46	27.9	782.15
2	812.85	236	476.2	712.44	42	98.7	140.68	96	11.14	106.99	30.84	24.42	46.41	51.62	-57.35	1186.9	835.2	851.33	16.2	796.68
3	813.28	246	470.9	717.36	44	96.5	140.89	96	8.95	105.02	29.23	23.21	46.25	49.40	-73.53	1200.2	820.5	835.80	15.3	797.97
4	801.96	243	445.4	688.61	44	103.2	147.65	96	5.03	101.13	34.00	23.26	45.83	47.68	-88.88	1185.7	800.5	809.16	8.6	793.32
5	833.64	242	394.6	637.04	44	104.4	148.78	96	1.84	97.93	37.29	25.36	50.14	48.63	-151.27	1216.5	758.4	778.43	20.0	813.63
6	833.92	247	356.6	603.32	57	104.4	161.07	91	9.87	101.18	59.80	36.48	57.11	56.72	-144.55	1228.6	772.3	792.58	20.3	813.65
7	822.85	229	384.1	613.06	80	83.9	164.13	77	29.01	106.16	69.71	50.66	44.87	60.57	-73.82	1209.2	799.9	826.15	26.2	796.65
8	817.60	246	420.3	666.21	99	80.5	179.07	77	36.84	114.05	69.60	47.10	45.74	60.26	-34.60	1239.2	837.6	860.17	22.6	795.01
9	809.58	237	428.2	665.36	98	70.5	168.88	77	39.78	116.60	68.44	37.57	44.37	54.69	-48.73	1222.0	820.3	837.64	17.3	792.26
10	809.06	244	464.4	708.68	83	79.4	162.84	77	31.33	108.03	58.70	35.41	42.83	54.45	-29.47	1213.5	843.2	856.26	13.1	795.99
11	801.39	236	378.2	613.97	95	70.2	165.51	77	17.51	94.26	51.41	34.65	47.03	52.10	-111.17	1209.2	727.8	766.94	39.1	762.26
12	913.60	226	466.9	693.38	87	75.0	162.31	75	13.75	89.22	55.02	35.80	46.48	56.83	-132.88	1302.8	825.3	856.17	30.9	882.74
13	922.95	234	473.6	708.02	87	69.6	156.57	75	17.76	92.87	48.67	36.37	50.86	58.64	-146.42	1319.4	830.7	851.62	21.0	901.99
14	933.34	213	524.3	736.94	78	56.0	134.35	75	20.16	95.29	64.12	39.12	54.59	60.53	-79.30	1299.4	894.0	929.13	35.2	898.18
15	955.03	222	525.7	748.13	78	72.0	150.30	75	21.95	97.17	66.12	45.68	58.25	59.68	-82.32	1331.1	924.5	947.91	23.4	931.63
16	961.74	220	580.8	801.22	71	93.8	165.21	75	26.27	101.61	67.04	52.60	53.21	58.13	-2.67	1328.9	1007.2	1034.39	27.2	934.54
17	961.59	234	548.8	782.74	71	103.9	174.95	75	26.90	102.14	65.04	51.74	55.42	69.63	-1.85	1341.8	996.7	1034.93	38.2	923.35
18	954.24	242	609.3	850.87	80	110.6	190.55	76	58.77	134.64	73.59	55.64	59.05	82.01	134.85	1351.6	1124.8	1164.91	40.1	914.18
19	1035.68	243	646.7	889.32	108	93.8	201.35	76	55.76	131.99	78.37	57.23	64.59	83.48	94.69	1462.1	1156.2	1206.55	50.4	985.29
20	1033.44	245	646.8	891.57	146	93.7	240.10	76	60.17	136.57	88.36	53.78	64.18	80.84	105.35	1501.0	1164.2	1215.13	50.9	982.49
21	1031.11	243	623.0	866.48	146	91.8	238.19	76	61.25	137.15	83.34	51.34	64.04	82.88	74.94	1496.9	1133.6	1181.91	48.3	982.79
22	1041.91	256	605.8	861.90	147	78.2	224.83	76	71.40	147.33	83.82	43.44	60.55	76.16	14.12	1520.6	1095.2	1131.91	36.7	1005.24
23	1006.44	254	597.9	851.98	147	80.4	227.03	76	65.72	141.91	78.29	35.45	58.21	61.81	-9.80	1483.4	1054.0	1072.80	18.8	987.59
24	967.34	255	565.2	820.22	122	51.4	173.90	76	49.79	126.01	72.55	29.64	53.21	60.60	-66.98	1421.1	958.6	976.56	18.0	949.38
Max	1041.91	256	646.8	891.57	147	110.6	240.10	96	71.40	147.33	88.36	57.23	64.59	83.48	134.85	1520.6	1164.2	1215.13	50.9	1005.24
Min	801.39	213	356.6	603.32	42	51.4	134.35	75	1.84	89.22	29.23	23.21	42.83	46.67	-151.27	1185.7	727.8	766.94	8.6	762.26

ANNEXURES
&
EXHIBITS

Annexure-I

RESERVOIR PARTICULARS OF THE MONTH : **Aug-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	716.80	17.08	718.45	21.93
KOPILI	609.5 M	592.83 M	609.09	98.20	609.18	98.20
LOKTAK	768.5 M	766.2 M	768.50	250.00	769.32	250.00
BARAPANI	3220 Ft	3150 Ft	3204.65	33.38	3207.39	36.20
GUMTI	93.55 M	83.6 M	87.15	6.39	88.50	10.12
DOYANG	333 M	306 M	324.00	36.10	323.45	33.00

Annexure-II

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

Frequency	(Freq.in Hz)	(Time: H:M)	(Date:D.M.Y)
1. Maximum frequency	50.74	07:22	15-Aug-11
2. Minimum frequency	48.84	19:10	16-Aug-11
3. Monthly average	49.90		

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-Aug-11	0.970	17-Aug-11	0.330
02-Aug-11	**1.410**	18-Aug-11	0.530
03-Aug-11	0.930	19-Aug-11	0.440
04-Aug-11	0.780	20-Aug-11	0.410
05-Aug-11	0.910	21-Aug-11	0.380
06-Aug-11	0.560	22-Aug-11	0.830
07-Aug-11	0.720	23-Aug-11	0.770
08-Aug-11	0.660	24-Aug-11	0.230
09-Aug-11	0.600	25-Aug-11	0.340
10-Aug-11	0.620	26-Aug-11	0.620
11-Aug-11	0.760	27-Aug-11	0.300
12-Aug-11	0.390	28-Aug-11	0.300
13-Aug-11	**0.200**	29-Aug-11	0.270
14-Aug-11	0.480	30-Aug-11	0.240
15-Aug-11	0.900	31-Aug-11	0.840
16-Aug-11	1.330	**Average FVI**	**0.615**

Annexure-III

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

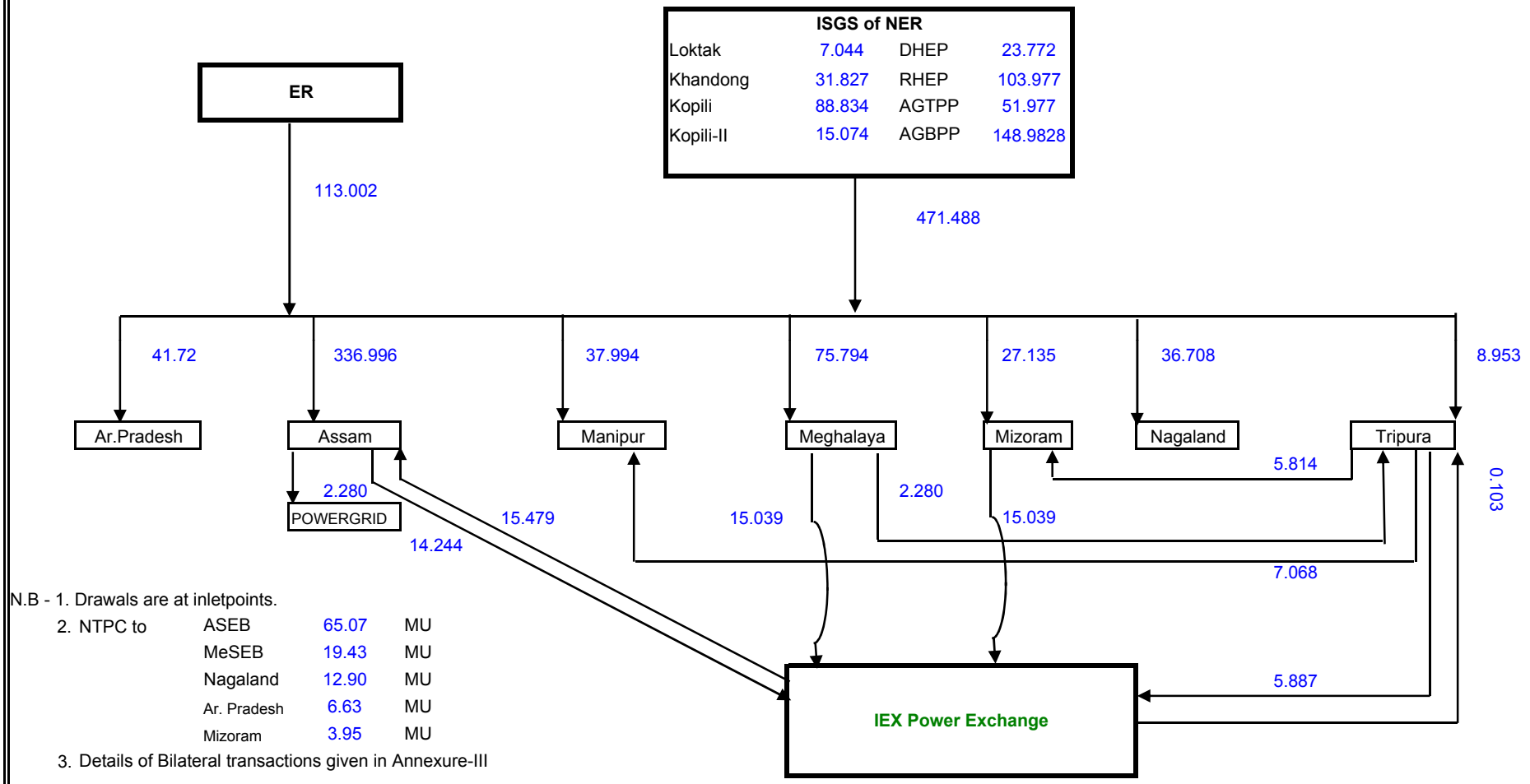
Sl.No.	From	To	Energy (At Seller Injn. Point) (MWH)		Energy (At State Periphery) (MWH)
1	Tripura (Baramura-IV)	Manipur	3534.000000		3439.459544
2	Tripura (Baramura-IV)	Mizoram	3534.000000		3439.459544
3	Tripura (Baramura-V)	Manipur	3534.000000		3439.459544
4	Tripura (Baramura-V)	Mizoram	2280.000000		2222.234718
5	MeECL	TSECL (NVVN)	3100.000000		3016.500000
6	ASEB	POWERGRID^	283.614800	^ The actual energy consumed by POWERGRID	

Scheduled Bilateral Exchange with SEBs / Organisations in other Regions

Sl.No.	From	To	Energy (At Seller Periphery) (MWH)	Energy (At NER-ER Periphery) (MWH)	Energy (At Buyer Periphery) (MWH)
1	AP	APPCC (AP)	-10540.000000	-10401.770000	
2	MeECL	WBSEDCL (NVVN)	-14880.000000	-14679.600000	
3	NAG	APPCC (NAG)	-26660.000000	-26300.950000	
4	TSECL	PSPCL (NVVN)	-19530.000000	-19267.980000	
5	Farakka*	Ar. Pradesh	2965.622700	2911.800000	2872.302225
6	Kahalgaon 1*	Ar. Pradesh	1769.663525	1737.050000	1713.889775
7	Talcher*	Ar. Pradesh	1898.431125	1869.200000	1844.494650
8	Farakka*	Assam	22206.182200	21837.700000	21541.452775
9	Kahalgaon 1*	Assam	8826.440525	8681.050000	8565.300475
10	Kahalgaon 2*	Assam	23471.733450	23077.925000	22756.935813
11	Talcher*	Assam	10567.492125	10424.425000	10286.593463
12	Farakka*	MeECL	5364.830400	5275.725000	5204.167863
13	Kahalgaon 1*	MeECL	3218.682600	3172.500000	3130.203650
14	Kahalgaon 2*	MeECL	7421.892000	7307.325000	7205.693613
15	Talcher*	MeECL	3428.619750	3381.575000	3336.871413
16	Farakka*	Nagaland	5772.708100	5675.525000	5598.524588
17	Kahalgaon 1*	Nagaland	3456.629525	3392.850000	3347.607175
18	Talcher*	Nagaland	3672.648125	3620.200000	3572.351325
19	Farakka*	Mizoram	1769.623500	1746.300000	1722.614250
20	Kahalgaon 1*	Mizoram	1043.074075	1039.050000	1025.211675
21	Talcher*	Mizoram	1135.169875	1119.200000	1104.410950
	Bilateral exchange through IEX Power Exchange (-ve means injection, +ve means drawal)				
22	Assam		-14244.470000	-14058.000000	
23	Assam			15690.000000	15479.190000
24	MeECL		-5932.200000	-5852.400000	
25	Mizoram		-15038.610000	-14840.000000	
26	Tripura		-5887.360000	-5813.000000	
27	Tripura			105.000000	103.380000

Annexure-IV

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



N.B - 1. Drawals are at inletpoints.

2. NTPC to

ASEB	65.07	MU
MeSEB	19.43	MU
Nagaland	12.90	MU
Ar. Pradesh	6.63	MU
Mizoram	3.95	MU

3. Details of Bilateral transactions given in Annexure-III

Exhibit-I

Frequency Duration for August, 2011

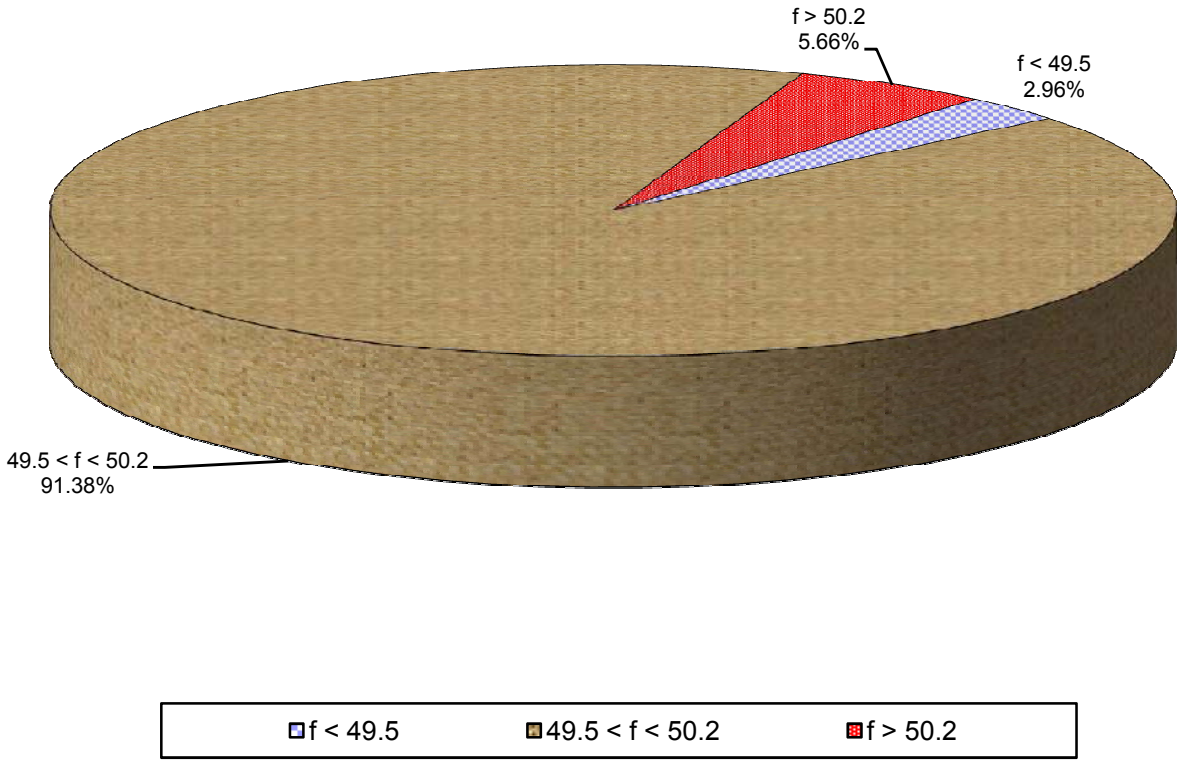


Exhibit-II

FVI Characteristics for August, 2011

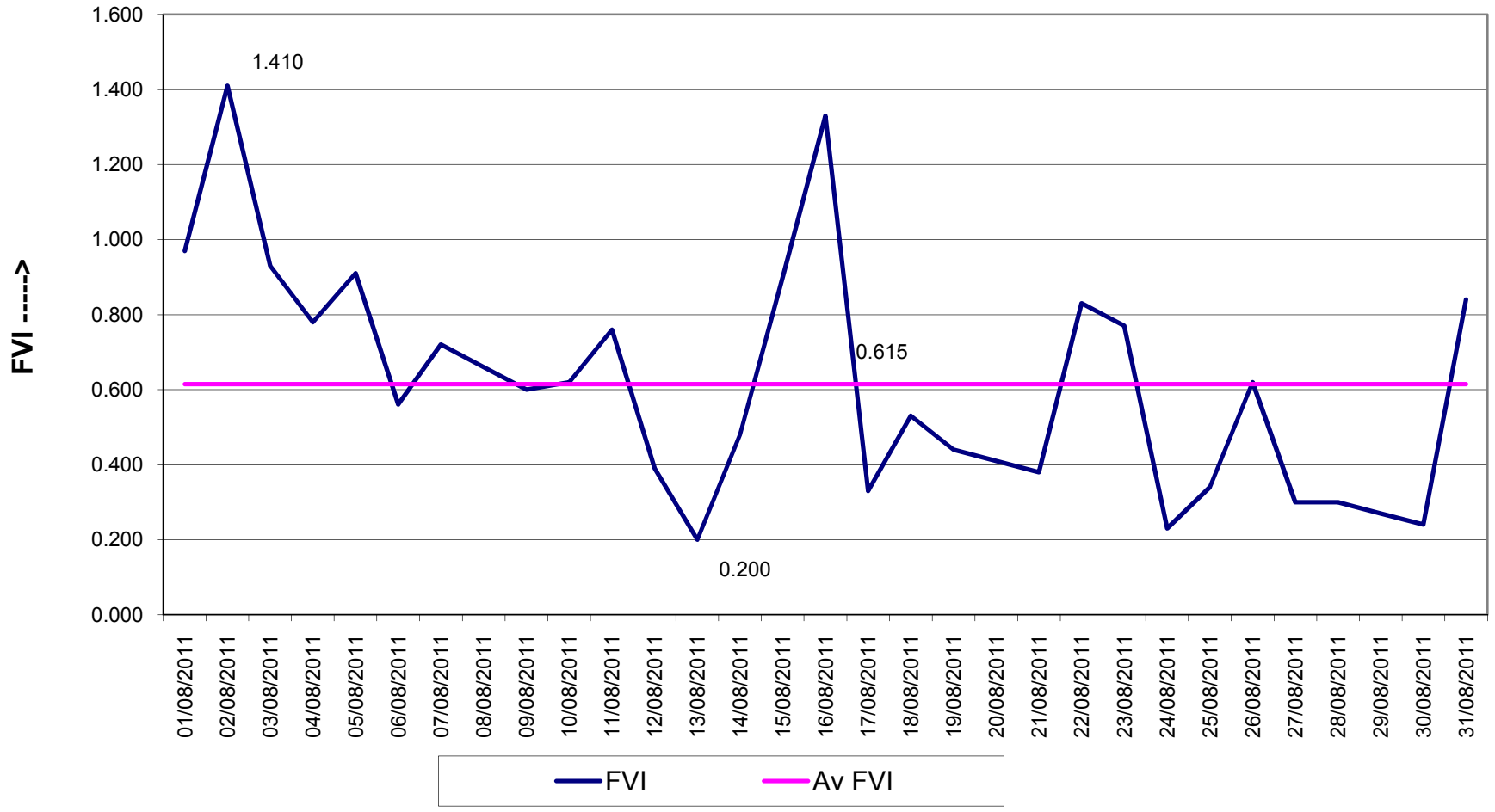


Exhibit-III

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

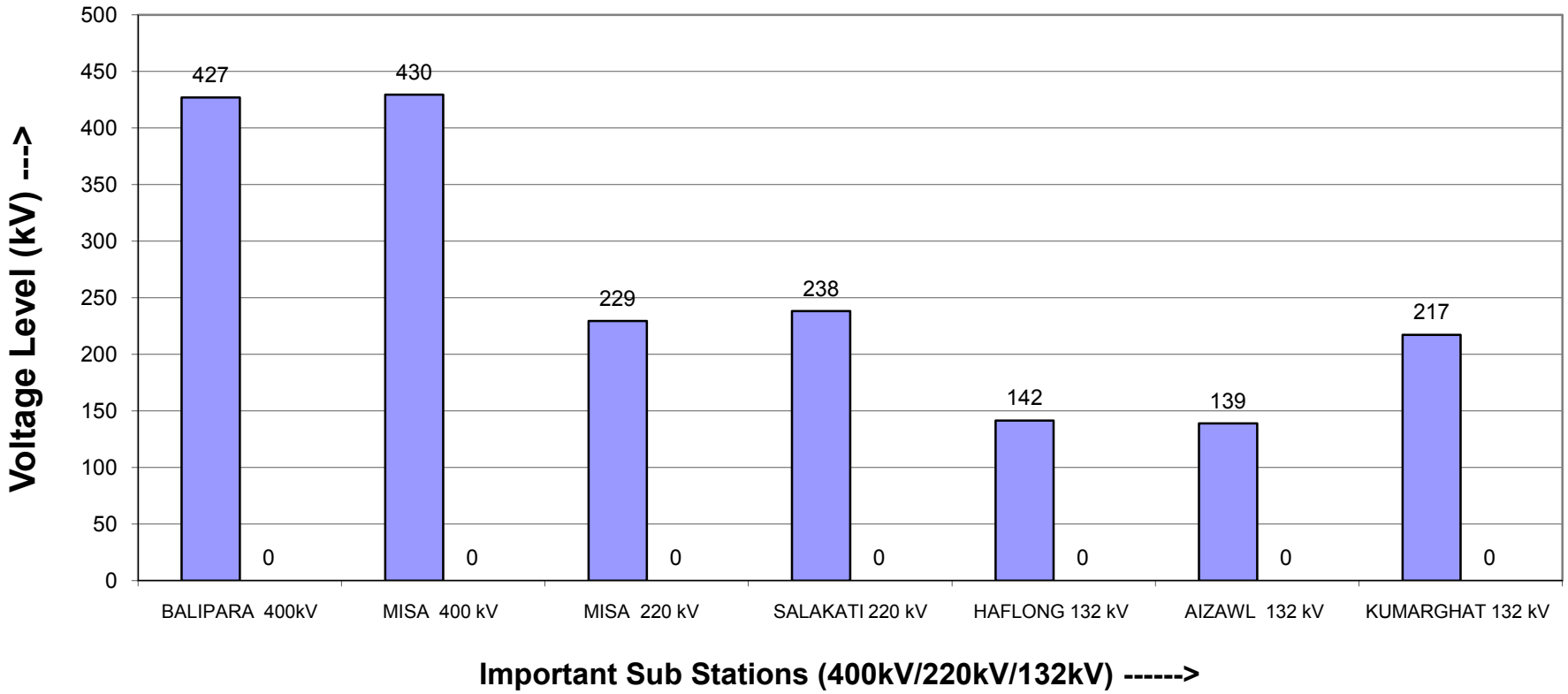


Exhibit-IV

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

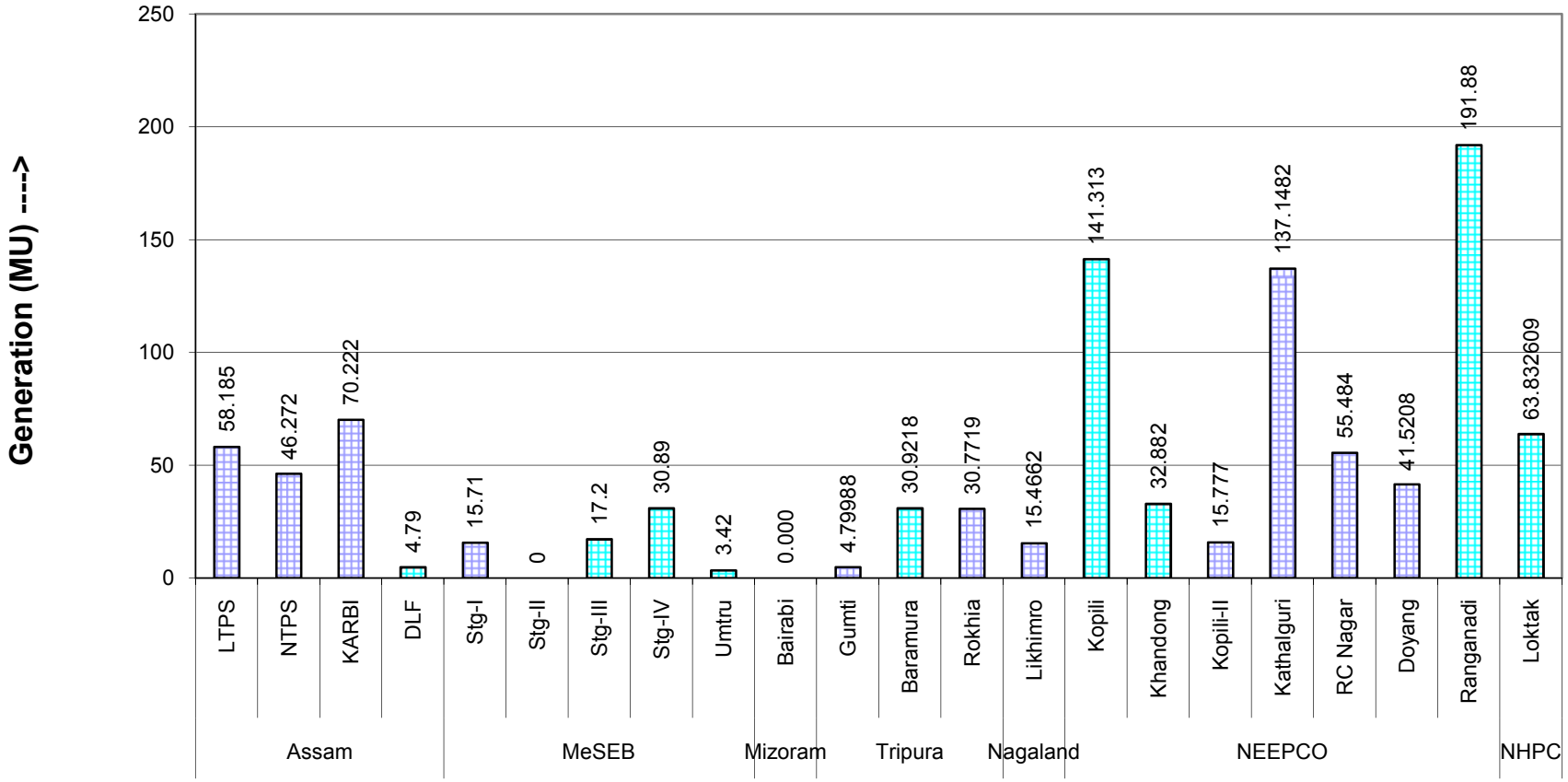


Exhibit-V

NER States Energy Scenario in August, 2011

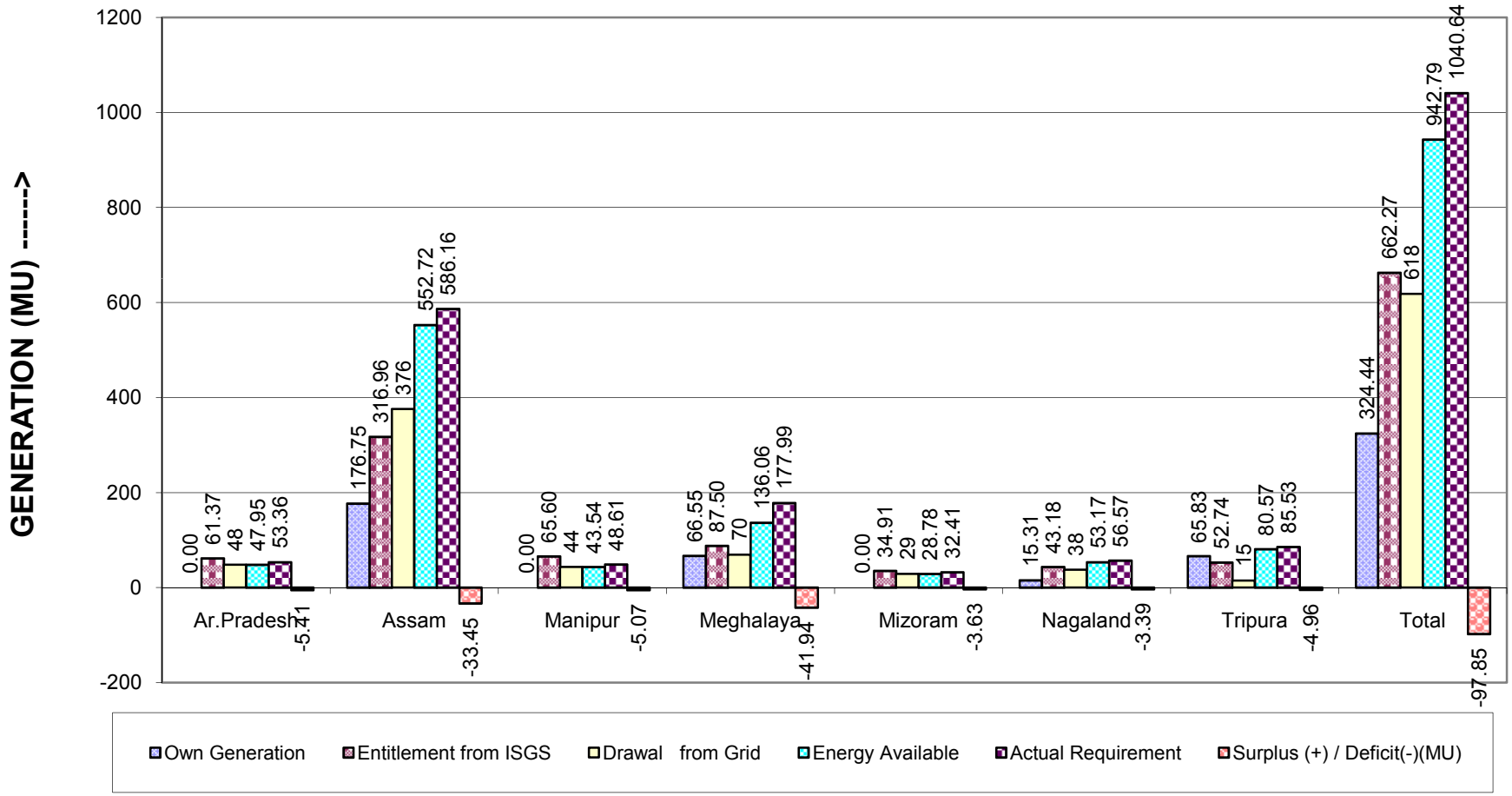


Exhibit-VI

Reservoir Statistics of NER in August, 2011