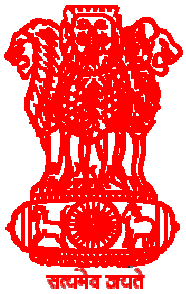


भारत सरकार Government of India
विद्युत मंत्रालय Ministry of Power
केंद्रीय विद्युत प्राधिकरण
Central Electricity Authority

उत्तर पूर्वी क्षेत्रीय विद्युत समिति
North Eastern Regional Power Committee

शिलोंग Shillong

Progress Report

For the month of

May, 2011

CONTENTS

NORTH EASTERN REGIONAL POWER COMMITTEE

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

- The maximum unrestricted demand during the month of May, 2011 was 1725 MW, which was 1762 MW in the month of April, 2011. The peak demand met in NER during the period under review was 1547 MW, which was 1581 MW last month.

- The energy requirement during the month of May, 2011 was 893.75 MU, which was 826.31 MU in the month of April, 2011. The energy availability in NER during the period under review was 792. 10 MU, which was 748.38 MU last month.

- The maximum, minimum & average system frequency were 50.95, 49.00 & 49.89 Hz respectively. The maximum, minimum & average FVI were 1.760, 0.240 & 0.586 respectively. The average FVI was less than its previous month's figure. (refer Annex-II).

- Maximum export of power from NER to ER was 370 MW (on 04/05/11 at 24:00 hrs) and that from ER to NER was 555 MW (06/05/11 at 18:00 hrs). Total net energy import during the month was 166.05 MU (from ER).

SALIENT FEATURES OF
NORTH EASTERN REGIONAL GRID FOR MAY, 2011

1	New unit/ transmission lines/Transformers commissioned during this month		**Nil**	
2	Number of total grid disturbance during this month		**Nil**	
			May-11	**May-10**
3	**Installed Capacity** of the Region (in MW)(grid)		2054.12	2033.12
4	**Energy Generation in MU (Gross)::**			
	Thermal		217.663	349.935
	Hydel		260.457	232.310
	Diesel / Oil		0.000	0.000
	Total		478.120	582.245
5	**Demand in MW ::**			
	Registered Peak demand		1725.00	1578.00
	Peak demand met		1547.00	1322.00
	Shortage (% age)		-10.32	-16.22
6	**Regional Energy(Gross) in MU ::**			
	Energy requirement		893.75	745.97
	Energy availability		792.10	652.91
	Surplus (+) / Deficit (-) (% age)		-11.37	-12.47
7	**Inter Regional Energy Exchange in MU ::**			
	NER ----> ER		0.412	11.838
	ER ----> NER		166.464	108.485
	Net Import		166.052	-96.65
8	**Frequency profile ::**			
	Average frequency (Hz)		49.89	49.73
	Average Frequency Variation Index		0.586	1.370
9	Load Factor (in %)		61.72	55.61

ENERGY GENERATION IN THE REGION FOR THE MONTH OF May-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	40.260	39.857	0.000	0.000	68.280	67.597	50.680	49.160	159.220	156.614
Meghalaya	31.530	31.215	0.000	0.000	0.000	0.000	0.000	0.000	31.530	31.215
Mizoram	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tripura	2.396	2.372	0.000	0.000	63.137	62.505	0.000	0.000	65.533	64.878
Nagaland	1.500	1.485	0.000	0.000	0.000	0.000	0.000	0.000	1.500	1.485
Total (State Sector)									**257.783**	**254.192**
Central Sector :										
NEEPCO :										
Khd+Kop+Kop-II	107.000	105.930	0.000	0.000	0.000	0.000	0.000	0.000	107.000	105.930
K'guri	0	0	0.000	0.000	0	0	161.530	156.684	161.530	156.684
RCNagar	0	0	0	0	56.133	55.572	0	0	56.133	55.572
Doyang	4.950	4.901	0	0	0	0	0	0	4.950	4.901
Ranganadi	65.860	65.201	0	0	0	0	0	0	65.860	65.201
NHPC :										
Loktak	4.260	4.217	0.000	0.000	0.000	0.000	0.000	0.000	4.260	4.217
Total (Central Sector)									399.733	392.505
Total NER	257.756	255.179	0.000	0.000	187.550	185.674	212.210	205.844	**657.516**	**646.697**

REQUIREMENT Vs AVAILABILITY IN THE REGION

STATES	ENERGY requirement (MU) at 50 Hz				POWER requirement (MW) at 50 Hz			
	Availability & L/S at prevailing freq.				*Availability & L/S at prevailing freq.*			
	Requirt.	Availy.	Shortfall	%Shortfall	Requirt.	Availy.**	Shortfall	%Shortfall
Ar.Pr.	44.93	40.90	4.02	8.96%	90	87	3	3.47%
Assam	490.94	462.52	28.42	5.79%	1050	978	72	6.88%
Manipur	42.88	38.32	4.56	10.63%	102	94	8	7.64%
M'laya	161.85	112.55	49.30	30.46%	245	209	36	14.56%
Mizoram	32.87	28.60	4.27	13.00%	75	67	8	10.59%
Nagaland	45.96	40.67	5.29	11.52%	94	83	11	12.01%
Tripura	74.32	68.54	5.78	7.77%	165	163	2	1.20%
REGION	893.75	792.10	101.64	11.37%	1725	1547	178	10.32%

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	87.00	26/05/2011	49.95	0.13	3	90.13
Assam	978.00	25/05/2011	49.82	5.28	67	1050.28
Manipur	94.00	01/05/2011	50.08	-0.23	8	101.77
Meghalaya	209.00	06/05/2011	50.38	-2.38	38	244.62
Mizoram	67.00	13/05/2011	50.03	-0.06	8	74.94
Nagaland	83.00	27/05/2011	49.87	0.32	11	94.32
Tripura	163.00	09/05/2011	49.80	0.98	1	164.98
REGION	1547.00	31/05/2011	49.87	6.03	172	1725.03

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

ESTIMATION OF ENERGY REQUIREMENT (in MU)

Average Frequency 49.89 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	30.315	6.764	40.905	3.825	40.905	0.135	3.89	44.930
Assam	156.614	202.781	72.982	305.910	30.147	462.525	1.526	26.89	490.941
Manipur	0.000	32.041	0.000	38.319	6.279	38.319	0.126	4.43	42.876
M'laya	31.215	51.616	21.967	81.331	7.748	112.546	0.371	48.93	161.847
Mizoram	0.000	20.889	4.041	28.597	3.666	28.597	0.094	4.18	32.871
Nagaland	1.485	23.237	6.712	39.182	9.234	40.667	0.134	5.16	45.961
Tripura	64.878	31.735	0.000	3.667	-28.068	68.545	0.226	5.55	74.321
REGION	254.192	392.614	112.467	537.911	32.830	792.103	2.614	99.03	893.747

*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)	
				May-11	May-10
	STATE SECTOR : HYDRO				
	ASSAM :: HYDRO				
1	KARBI HEP U - 1	50.00	50.00	33.510	10.290
2	KARBI HEP U - 2	50.00	50.00	6.750	8.320
	TOTAL	100.00		40.260	18.610
	MEGHALAYA :: HYDRO				
1	STAGE - 1	36.00	27.00	3.080	1.610
2	STAGE - 2	18.00	13.00	10.690	5.740
3	STAGE - 3	60.00	30.10	14.900	7.320
4	STAGE - 4	60.00	54.00	2.280	0.000
5	UMTRU	11.20	5.80	0.580	0.290
					0.000
	TOTAL	185.20		31.530	14.960
	NAGALAND :: HYDRO				
6	LIKIMRO - 1				
7	LIKIMRO - 2	24.00	15.00	4.200	1.350
8	LIKIMRO - 3				
	TOTAL	24.00		4.200	1.350
	TRIPURA :: HYDRO				
9	GUMTI - 1	5.00	Gumti Stn. Peak =8 MW	0.000	0.000
10	GUMTI - 2	5.00		0.451	0.000
11	GUMTI - 3	5.00		1.946	0.940
	TOTAL	15.00		2.397	0.940
	TOTAL STATE (HYDRO) :	324.20		78.387	35.860

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)	
				May-11	May-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 = 42 MW	0.000	0.000
2	BARAMURA - 2	5.00		0.000	0.000
3	BARAMURA - 3	6.50		0.000	0.000
4	BARAMURA - 4	21.00		14.740	14.180
5	BARAMURA - 5	21.00		15.139	0.000
6	ROKHIA - 1	8.00	Rokhia Stn. Peak = 50.1MW	0.000	0.000
7	ROKHIA - 2	8.00		0.000	0.000
8	ROKHIA - 3	8.00		0.000	4.550
9	ROKHIA - 4	8.00		4.142	3.750
10	ROKHIA - 5	8.00		0.000	0.000
11	ROKHIA - 6	8.00		0.000	0.000
12	ROKHIA - 7	21.00		14.250	14.660
13	ROKHIA - 8	21.00		14.866	14.290
	TOTAL	148.50		63.137	51.430
	ASSAM :: THERMAL				
1	LTPS - 1	15.00	LTPS Stn. Peak = 99.2 MW	8.590	6.090
2	LTPS - 2	15.00		8.510	9.420
3	LTPS - 3	15.00		9.540	5.420
4	LTPS - 4	15.00		7.770	8.240
5	LTPS - 5	20.00		12.680	10.600
6	LTPS - 6	20.00		10.370	13.480
7	LTPS - 7	20.00		5.680	12.220
8	NTPS - 1	20.00	NTPS Stn. Peak = 75.5 MW	13.510	11.550
9	NTPS - 2	21.00		14.620	10.750
10	NTPS - 3	21.00		8.730	9.540
11	NTPS - 4	11.00		7.140	5.000
12	NTPS - 5	22.00		0.000	8.290
13	NTPS - 6	22.00		6.680	5.860
14	DLF	24.50		5.130	5.660
	TOTAL	261.50		118.950	122.120
TOTAL STATE THERMAL/GAS :		432.92		182.087	173.550
TOTAL SC GEN(HY+TH/GAS)		**757.12**		**260.474**	**209.410**

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)	
				May-11	May-10
	CENTRAL SECTOR : HYDRO				
1	KHANDONG - 1	25.00	25.00	9.870	0.000
2	KHANDONG - 2	25.00	25.00	9.240	0.000
3	KOPILI Stg - II	25.00	25.00	10.360	0.000
4	KOPILI - 1	50.00	50.00	12.820	0.000
5	KOPILI - 2	50.00	50.00	18.070	2.890
6	KOPILI - 3	50.00	50.00	29.110	3.230
7	KOPILI - 4	50.00	50.00	17.530	2.280
8	DOYANG -1	25.00	Doyang Stn. Peak = 49.4 MW	1.580	1.260
9	DOYANG -2	25.00		1.630	0.980
10	DOYANG -3	25.00		1.740	1.270
11	LOKTAK - 1	35.00	Loktak Stn. Peak = 89 MW	1.880	17.170
12	LOKTAK - 2	35.00		0.610	0.000
13	LOKTAK - 3	35.00		1.770	24.240
14	RANGANADI - 1	135.00	Ranganadi Stn. Peak =405 MW	23.180	40.360
15	RANGANADI - 2	135.00		21.600	48.830
16	RANGANADI - 3	135.00		21.080	53.940
TOTAL HYDRO :		**860.00**		**182.070**	**196.450**
	CENTRAL SECTOR : THERMAL/GAS				
1	KATHALGURI - 1	33.50	Kathalguri Stn. Peak = 258 MW	18.070	22.400
2	KATHALGURI - 2	33.50		21.290	22.660
3	KATHALGURI - 3	33.50		21.760	18.110
4	KATHALGURI - 4	33.50		19.370	10.790
5	KATHALGURI - 5	33.50		16.890	21.400
6	KATHALGURI - 6	33.50		20.980	0.000
7	KATHALGURI - 7	30.00		13.370	17.430
8	KATHALGURI - 8	30.00		15.300	0.000
9	KATHALGURI - 9	30.00		14.500	7.110
10	R.C.NAGAR - 1	21.00	RC Nagar Stn. Peak = 80 MW	14.392	14.499
11	R.C.NAGAR - 2	21.00		13.993	14.188
12	R.C.NAGAR - 3	21.00		13.891	13.674
13	R.C.NAGAR - 4	21.00		13.857	14.124
TOTAL THERMAL/GAS :		375.00		217.663	176.385
TOTAL CS (HY + TH/GAS) :		1235.000		399.733	372.835
TOTAL NER GEN(HY+TH/GAS) :		**1992.120**		**660.207**	**582.245**

Plant Load Factor (PLF) and Voltage Profile : May-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	63.140	70.72
2	NTPS*	AEGCL	117.00	50.680	58.22
3	Baramura	Tripura	58.50	29.879	68.65
4	Rokhia	Tripura	90.00	33.258	49.67
5	AGBPP	NEEPCO	291.00	161.530	**74.61**
6	AGTPP	NEEPCO	84.00	56.133	89.82

*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	426	389
2	MISA 400 kV	426	395
3	MISA 220 kV	232	210
4	SALAKATI 220 kV	237	210
5	HAFLONG 132 kV	138	122
6	AIZAWL 132kV	137	112
7	KUMARGHAT 132kV	136	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	0.03	0.00	85.71	14.26
BALIPARA	0.00	5.95	93.86	0.19

1 **INTER - REGIONAL EXCHANGE :**

All Fig in MU

NER to ER	0.412
ER to NER	166.464
NET IMPORT	166.052

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

3	**MEETING HELD BY NERPC DURING THIS MONTH**	1. 11th TCC & NERPC Meeting was held on 05.05.11 & 06.05.11 at Raichak, Kolkata.

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) 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	Commi'ng Sch		Total no.	Stubs com -	Tower	Stringing	Remarks
		(ckt kms	Ann.pl	Ant/revd	of locs .	pleted(nos)	Erected	complt-ckm	
	A : Lines under ASEB.								
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	Myntdu Leshka-Khlieriat 132 KV D/C	53		Dec-10					Commissioned
2	220 kV Misa-Byrinahat D/C	226		Jun-10					Completed
3	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 May-11

Organisation	Actual (MU)	Schedule (MU)	UI Energy (MU)	UI Receivable (Rs. in Lakhs)	UI Payable (Rs. in Lakhs)
Arunachal Pradesh	40.905	41.935	-1.030	98.428	45.120
ASEB	305.910	277.540	28.370	145.683	802.577
Manipur	38.319	38.118	0.201	60.225	80.473
MeSEB	81.331	76.472	4.859	69.499	80.081
Mizoram	28.597	25.139	3.457	27.655	88.322
Nagaland	39.182	29.078	10.104	9.726	243.139
Tripura	3.667	11.371	-7.704	211.804	27.567

Entitlement, Schedule, Drawal and UI Charges May-11

	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	30.315	30.408	41.935	40.905	-1.030	0.533
ASEB	202.781	202.251	277.540	305.910	28.370	-6.569
Manipur	32.041	32.415	38.118	38.319	0.201	-0.202
MeSEB	51.616	51.594	76.472	81.331	4.859	-0.106
Mizoram	20.889	20.809	25.139	28.597	3.457	-0.607
Nagaland	23.237	23.148	29.078	39.182	10.104	-2.334
Tripura	31.735	31.990	11.371	3.667	-7.704	1.842

(Source : UI A/c, NERPC)

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

States	Schedule From ISGS(MWH)	Bilateral Schedule from Outside NER (MWH)	Total Schedule (MWH)	Ex.PP. Drawal (MWH)	Tr. Energy (MWH)
Arunachal Pradesh	30311.11	7000.35	37311.46	42417.09	42417.09
ASEB	202741.07	75520.80	278261.87	317218.20	317218.20
Manipur	32034.37		32034.37	39735.67	39735.67
MeSEB	51606.92	22731.10	74338.02	84337.36	84337.36
Mizoram	20884.99		20884.99	29653.70	29653.70
Nagaland	23232.30	6951.53	30183.83	40630.61	40630.61
Tripura	31728.20		31728.20	3802.48	31728.20
Total	392538.95	112203.78	504742.72	557795.09	585720.81

ISGS	Schedule (MWH)	Injection (MWH)
LOKTAK	4080.88	4178.86
KHANDONG	19336.40	19245.25
KOPILI-I	76221.74	75947.86
KOPILI-II	10064.56	10048.77
DHEP	4473.62	4486.25
RHEP	65334.90	65885.92
AGTPP	54884.99	55033.62
AGBPP	158141.89	156916.88
Total	392538.95	391743.41

Source : Provisional REA for the month: May-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	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:- 31.05.2011

All figures in MW

HRS.	Total ISGS Injection (MW)	STATE SECTOR													ER					Total Drawal by States
		ASEB			MeSEB			Tripura			Manipur	Mizoram	Nagaland	ArPr		Total N.E.R GEN	Total Demand Met	Gross Demand met	Actual Loss	
		GEN	Drawal	Demand Met	GEN	Demand Met	Drawal	GEN	Demand Met	Drawal	DM	DM	DM	DM	IMPORT(+)/ EXPORT(-)					
1	529.31	181	422.81	604.0	79	182.9	103.99	92	89.0	-2.73	26.21	21.79	35.71	51.86	153.12	881.11	1011.43	1034.17	22.7	506.57
2	532.38	175	396.31	571.4	56	182.8	126.76	91	84.6	-6.45	19.78	21.01	33.78	44.91	123.17	854.67	958.38	977.78	19.4	512.98
3	529.33	175	376.50	551.1	38	144.7	106.46	91	82.5	-8.76	18.22	21.15	32.95	45.09	78.72	833.46	895.75	912.12	16.4	512.96
4	530.65	172	356.68	528.9	54	165.1	111.15	91	81.9	-9.31	17.22	20.88	34.84	45.58	62.79	848.06	894.45	910.79	16.3	514.31
5	538.50	165	310.66	475.5	54	186.6	132.79	90	72.9	-17.13	24.03	24.18	49.10	48.94	54.66	847.18	881.26	901.79	20.5	517.97
6	536.95	165	292.96	458.3	54	197.5	143.50	91	67.4	-23.62	39.92	36.39	45.88	46.74	64.19	847.32	892.12	911.45	19.3	517.63
7	650.71	170	298.52	468.1	54	199.5	145.49	90	70.8	-19.20	50.11	50.39	43.67	50.85	-8.32	964.39	933.52	956.02	22.5	628.21
8	643.59	168	340.80	508.7	54	182.6	128.51	91	74.3	-16.63	51.54	49.13	38.71	48.95	19.54	956.50	953.92	975.98	22.1	621.53
9	647.89	171	354.77	525.7	48	164.0	116.23	91	79.2	-11.62	47.73	41.20	32.23	42.65	-6.23	957.48	932.78	951.19	18.4	629.48
10	522.22	171	379.98	551.3	54	190.2	136.19	91	80.3	-11.06	50.51	38.35	33.37	48.90	173.14	838.93	992.94	1012.01	19.1	503.15
11	525.06	167	398.06	565.4	24	147.1	122.99	91	77.2	-13.75	42.70	38.07	34.38	49.71	166.49	807.39	954.50	973.83	19.3	505.73
12	653.64	167	365.60	532.3	32	137.2	105.12	91	83.8	-6.76	53.25	38.45	45.49	14.78	0.00	942.98	905.28	942.92	37.6	616.00
13	657.75	191	428.08	618.7	36	133.3	97.27	91	85.5	-5.63	57.05	38.52	34.44	49.86	38.26	975.49	1017.32	1013.70	-3.6	661.38
14	655.10	189	431.04	620.5	18	118.2	100.16	91	77.9	-12.83	55.73	39.21	34.58	47.32	60.34	953.20	993.31	1013.48	20.2	634.93
15	644.88	189	445.01	634.0	18	141.9	123.87	90	82.4	-8.14	52.12	43.20	60.71	54.73	152.89	942.40	1069.00	1095.23	26.2	618.65
16	653.87	193	420.11	613.2	42	159.7	117.89	91	79.3	-11.54	66.47	52.47	46.29	54.88	121.99	979.64	1072.34	1101.57	29.2	624.65
17	642.69	187	447.70	634.3	42	169.4	127.76	91	86.8	-3.90	67.53	52.53	48.45	56.31	187.19	961.55	1115.25	1148.63	33.4	609.31
18	760.35	189	492.01	680.6	42	126.7	85.02	92	113.5	21.27	68.91	47.56	58.58	74.26	113.93	1082.80	1170.06	1196.61	26.6	733.80
19	817.47	198	689.82	887.8	72	180.1	108.31	92	138.0	46.02	66.35	53.65	70.06	83.21	353.07	1179.12	1479.07	1532.08	53.0	764.46
20	857.82	196	659.92	856.1	72	184.0	112.29	91	137.8	46.85	72.06	52.55	61.71	78.78	271.25	1216.67	1443.01	1487.80	44.8	813.02
21	851.69	182	679.49	861.6	78	187.5	109.72	92	135.5	43.83	72.94	47.65	63.46	75.72	279.46	1203.27	1444.40	1482.61	38.2	813.48
22	838.52	188	660.98	848.5	96	181.4	85.42	92	121.8	29.68	74.26	39.70	52.91	65.98	212.52	1214.17	1384.58	1426.57	42.0	796.53
23	835.10	188	564.74	752.3	96	184.6	88.67	91	99.0	7.80	70.05	32.03	46.90	57.96	63.36	1209.83	1242.86	1273.13	30.3	804.84
24	609.24	176	496.87	672.5	88	189.0	101.07	91	84.1	-7.35	64.38	26.65	40.48	47.24	186.21	964.21	1124.31	1150.37	26.1	583.18
Max	857.82	198	689.82	887.79	96	199.5	145.49	92	138.0	46.85	74.26	53.65	70.06	83.21	353.07	1216.67	1479.07	1532.08	53.0	813.48
Min	522.22	165	292.96	458.34	18	118.2	85.02	90	67.4	-23.62	17.22	20.88	32.23	14.78	-8.32	807.39	881.26	901.79	-3.6	503.15

HOURLY DATA ON MINIMUM DEMAND MET DAY

DATE: 21.05.2011

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	281.33	202	580.5	378.82	94	156.6	62.94	94	11.29	105.76	41.59	28.79	56.50	49.95	373.56	671.2	1019.7	1044.68	24.9	256.38
2	277.88	202	579.8	378.07	64	172.4	108.25	94	6.78	101.24	25.04	27.72	49.06	51.01	388.86	638.2	1006.2	1026.97	20.7	257.15
3	283.05	202	542.5	340.83	36	143.2	106.75	95	2.17	96.77	18.60	25.78	43.90	53.35	327.69	615.8	924.1	943.44	19.3	263.76
4	280.70	202	529.9	328.18	36	148.4	111.96	94	1.94	96.11	18.75	25.07	41.01	50.28	311.17	613.0	909.5	924.13	14.6	266.11
5	284.84	202	487.7	285.94	36	162.4	126.04	94	-7.95	86.43	25.54	26.06	46.58	51.09	287.82	617.3	885.8	905.05	19.3	265.58
6	331.80	202	481.8	280.06	36	162.2	126.04	94	-16.82	77.58	37.72	35.58	44.44	55.68	252.53	664.1	895.0	904.00	9.0	322.76
7	364.59	202	491.1	289.39	36	176.8	140.76	94	-13.69	80.70	48.42	45.73	48.33	53.19	281.76	696.7	944.3	978.42	34.1	330.47
8	356.79	202	531.8	330.13	36	177.4	140.99	94	-26.94	66.93	45.18	47.29	41.08	60.45	302.39	688.7	970.1	991.04	20.9	335.87
9	359.79	202	561.4	359.66	36	170.5	134.07	87	-22.75	63.90	38.09	44.21	41.52	57.22	299.07	684.6	976.8	983.57	6.8	353.03
10	354.52	202	585.4	383.69	36	179.2	142.80	91	-13.54	77.29	42.39	41.03	41.05	57.96	331.01	683.4	1024.3	1014.38	-9.9	364.45
11	330.14	202	621.3	419.61	32	124.1	91.77	91	-18.91	71.84	46.77	39.18	39.27	53.05	346.48	655.0	995.6	1001.36	5.8	324.34
12	312.41	202	586.5	384.81	36	155.9	119.87	93	-10.39	82.63	48.39	38.84	40.27	49.14	374.14	643.2	1001.7	1017.21	15.5	296.87
13	327.56	202	612.0	410.26	36	130.3	94.05	93	-15.97	77.14	40.81	39.05	45.10	56.73	361.09	658.7	1001.1	1019.67	18.6	309.01
14	329.29	202	607.0	405.32	51	142.5	91.40	93	-11.50	81.27	41.02	37.60	50.23	52.59	354.57	674.9	1012.2	1029.35	17.1	312.17
15	341.66	202	604.1	402.38	61	150.6	89.86	92	15.57	107.15	50.62	44.81	38.46	51.66	387.03	695.6	1047.4	1082.60	35.2	306.42
16	315.95	202	610.9	409.14	61	172.4	111.64	75	-7.78	66.78	51.81	51.31	41.66	54.01	431.46	652.9	1048.8	1084.30	35.5	280.41
17	403.93	202	650.5	448.78	61	188.7	128.00	91	-21.02	70.22	51.83	55.15	49.28	57.07	389.55	757.6	1122.7	1146.96	24.2	379.70
18	534.62	202	749.2	547.46	57	131.6	74.77	93	-11.39	81.81	45.98	46.94	56.35	62.62	301.79	886.3	1174.4	1187.94	13.5	521.11
19	691.06	202	881.1	679.39	75	181.5	106.76	93	1.32	94.70	62.48	52.21	65.52	74.46	369.28	1060.8	1411.9	1429.97	18.0	673.03
20	904.88	202	821.8	620.04	75	178.5	103.72	45	23.33	68.60	66.60	49.18	70.57	77.12	140.90	1226.7	1332.4	1367.43	35.1	869.82
21	752.19	202	835.3	633.54	80	188.2	107.82	62	-26.94	34.91	63.66	46.56	60.82	74.26	240.13	1096.1	1303.7	1336.12	32.5	719.74
22	576.22	202	836.2	634.52	80	173.8	93.36	77	-25.31	51.96	56.50	33.55	52.83	70.32	355.89	935.7	1275.2	1291.41	16.2	560.05
23	360.88	202	757.3	555.59	81	214.4	133.81	85	-16.90	68.23	51.17	30.53	45.61	53.98	518.03	728.3	1221.2	1246.27	25.0	335.85
24	355.77	202	673.8	472.04	42	195.6	153.62	77	-33.31	43.97	43.51	26.04	37.41	48.85	420.22	676.8	1069.2	1096.92	27.8	328.01
Max	904.88	202	881.1	679.39	94	214.4	153.62	95	23.33	107.15	66.60	55.15	70.57	77.12	518.03	1226.7	1411.9	1429.97	35.5	869.82
Min	277.88	202	481.8	280.06	32	124.1	62.94	45	-33.31	34.91	18.60	25.07	37.41	48.85	140.90	613.0	885.8	904.00	-9.9	256.38

ANNEXURES
&
EXHIBITS

Annexure-I

RESERVOIR PARTICULARS OF THE MONTH : **May-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	712.85	11.00	718.05	21.90
KOPILI	609.5 M	592.83 M	598.60	23.00	601.75	42.00
LOKTAK	768.5 M	766.2 M	766.51	12.00	767.07	33.50
BARAPANI	3220 Ft	3150 Ft	3172.98	10.00	3167.96	7.50
GUMTI	93.55 M	83.6 M	84.27	1.90	84.90	2.50
DOYANG	333 M	306 M	308.85	3.50	308.15	3.00

Annexure-II

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

Frequency	(Freq.in Hz)	(Time: H:M)	(Date:D.M.Y)
1. Maximum frequency	50.95	3:09	22.05.11
2. Minimum frequency	49.00	23:09	16.05.11
3. Monthly average	49.89		

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

f < 49.5	49.5 < f < 50.2	f >50.2
3.58	91.55	4.87

Daily Frequency Variation Index :

DATE	FVI	DATE	FVI
01-May-11	0.650	17-May-11	1.290
02-May-11	0.820	18-May-11	0.850
03-May-11	0.360	19-May-11	0.850
04-May-11	0.400	20-May-11	0.430
05-May-11	0.420	21-May-11	0.440
06-May-11	**0.240**	22-May-11	0.940
07-May-11	0.270	23-May-11	0.520
08-May-11	0.270	24-May-11	0.630
09-May-11	**1.760**	25-May-11	1.090
10-May-11	0.420	26-May-11	0.540
11-May-11	0.360	27-May-11	0.430
12-May-11	0.460	28-May-11	0.510
13-May-11	0.350	29-May-11	0.350
14-May-11	0.390	30-May-11	0.320
15-May-11	0.290	31-May-11	0.280
16-May-11	1.230	**Average FVI**	**0.586**

Annexure-III

Details of Scheduled Bilateral Exchanges within the Region in May-11

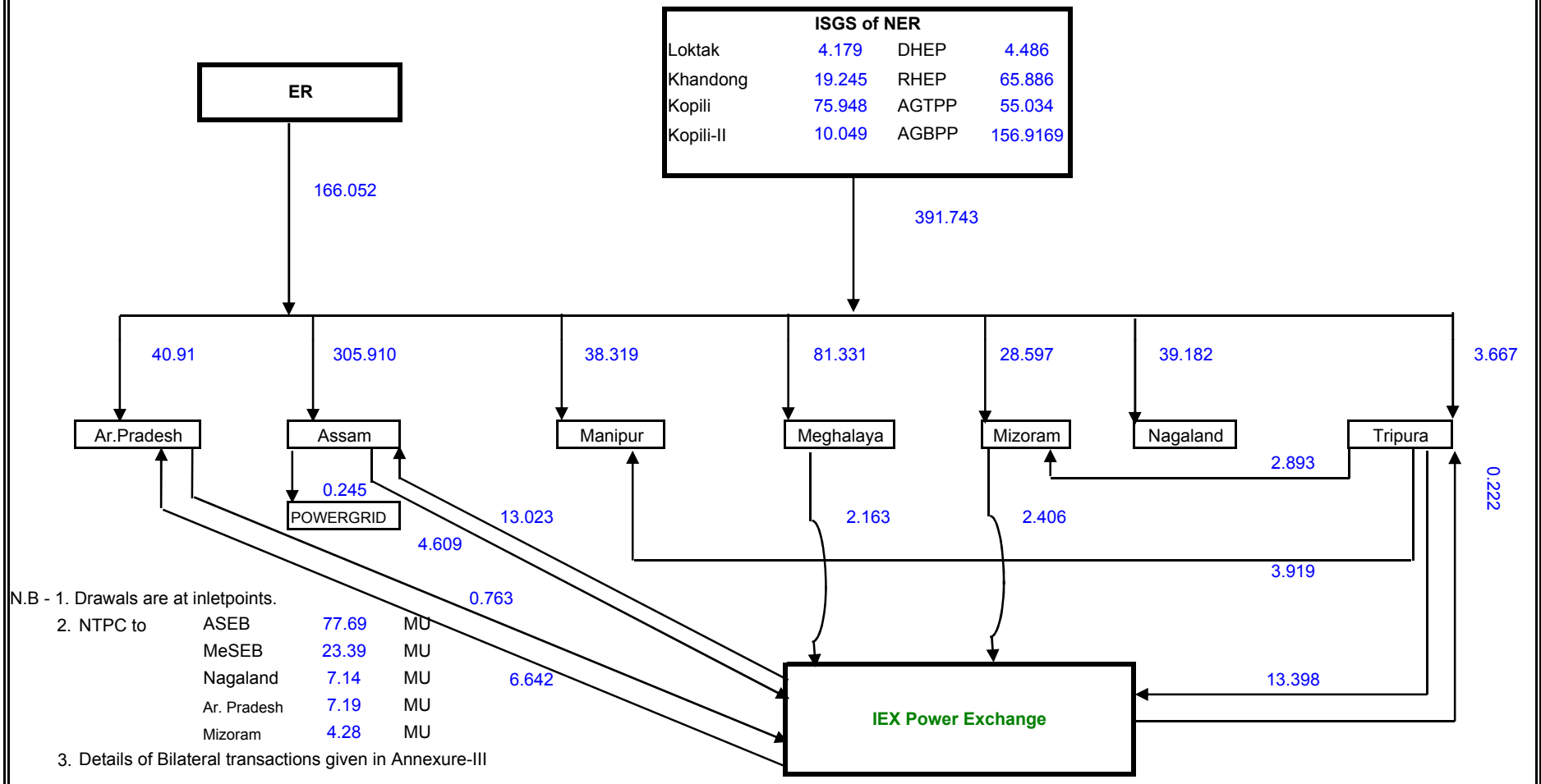
Sl.No.	From	To	Energy (At Seller Injn. Point) (MWH)		Energy (At State Periphery) (MWH)
1	Tripura(Baramura-IV)	Manipur	2892.750000		2796.391500
2	Tripura(Baramura-IV)	Mizoram	2892.750000		2796.391500
3	Tripura(Baramura-V)	Manipur	1026.000000		994.194000
4	ASEB	POWERGRID^	244.552800	^ The actual energy 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	APDCL (IEXL)	90.000000		87.120000
2	STERLITE	APDCL (TPTCL)	675.000000	656.100000	635.100000
3	CSPTCL	MeECL (NVVN)	6200.000000	5796.160000	5601.120000
4	NDPL	MeECL (NVVN)	6510.000000	6071.940000	5867.120000
5	MeECL	CSPTCL (NVVN)	4650.000000	4493.460000	
6	WBSEDCL	TSECL (NVVN)	4455.000000	4331.030000	4183.190000
7	Farakka*	Ar. Pradesh	3051.219375	2961.225000	2861.340400
8	Kahalgaon 1*	Ar. Pradesh	1778.746125	1726.975000	1668.801000
9	Talcher*	Ar. Pradesh	2363.768000	2312.150000	2234.154500
10	Farakka*	Assam	22809.050025	22172.750000	21424.852700
11	Kahalgaon 1*	Assam	8874.001125	8625.800000	8335.250200
12	Kahalgaon 2*	Assam	32764.891500	31847.175000	30781.229925
13	Talcher*	Assam	13240.776625	12875.075000	12440.739950
14	Farakka*	MeECL	5515.516125	5355.275000	5174.629250
15	Kahalgaon 1*	MeECL	3236.050500	3140.725000	3034.924250
16	Kahalgaon 2*	MeECL	10360.440000	10070.800000	9733.712600
17	Talcher*	MeECL	4279.384750	4164.300000	4023.815350
18	Farakka*	Nagaland	3029.431000	2943.250000	2841.801550
19	Kahalgaon 1*	Nagaland	1734.814875	1692.750000	1634.511450
20	Talcher*	Nagaland	2380.342500	2315.525000	2235.689700
21	Farakka*	Mizoram	1822.430700	1772.225000	1712.438800
22	Kahalgaon 1*	Mizoram	1047.928125	1029.425000	994.746050
23	Talcher*	Mizoram	1409.110750	1380.625000	1334.050900
	Bilateral exchange through IEX Power Exchange (-ve means injection, +ve means drawal)				
24	Arunachal Pradesh		-763.240000	-739.350000	
25	Arunachal Pradesh			6876.100000	6641.620000
26	Assam		-4608.570000	-4460.000000	
27	Assam			13490.000000	13023.060000
28	MeECL		-2163.450000	-2094.000000	
29	Mizoram		-2406.000000	-2325.000000	
30	Tripura		-13397.85	-12945	
31	Tripura			230.000000	222.250000

Annexure-IV

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



N.B - 1. Drawals are at inletpoints.

2. NTPC to

ASEB	77.69	MU
MeSEB	23.39	MU
Nagaland	7.14	MU
Ar. Pradesh	7.19	MU
Mizoram	4.28	MU

3. Details of Bilateral transactions given in Annexure-III

Exhibit-I

Frequency Duration for May, 2011

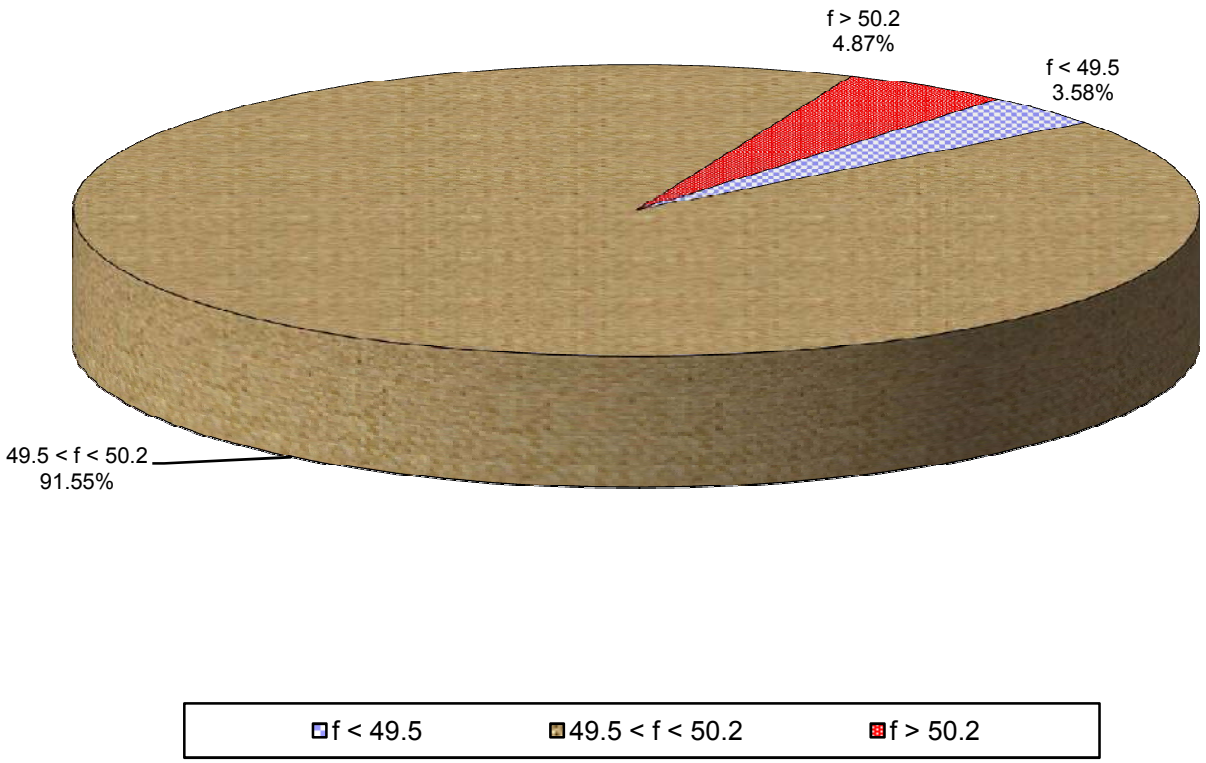


Exhibit-II

FVI Characteristics for May, 2011

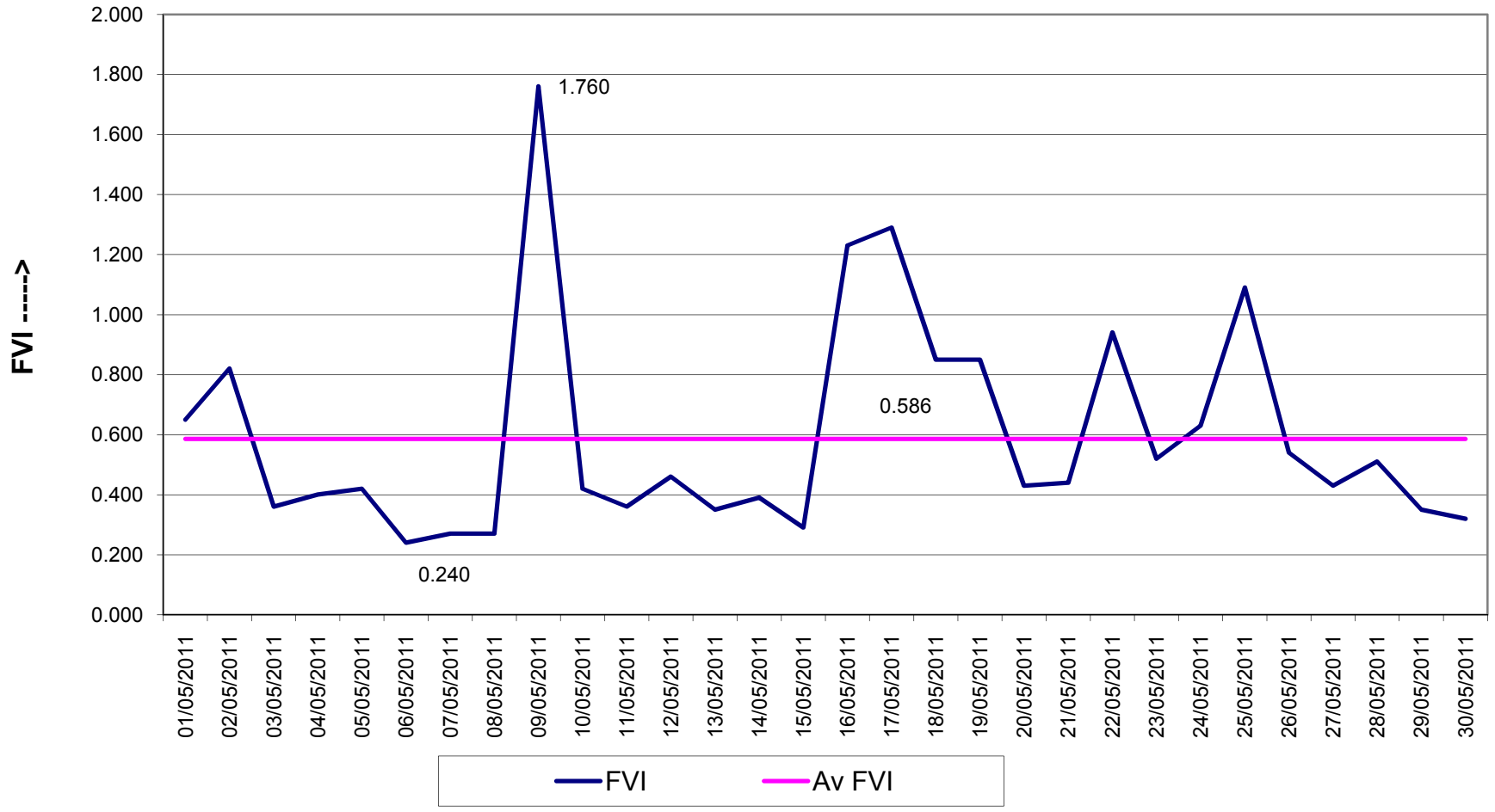


Exhibit-III

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

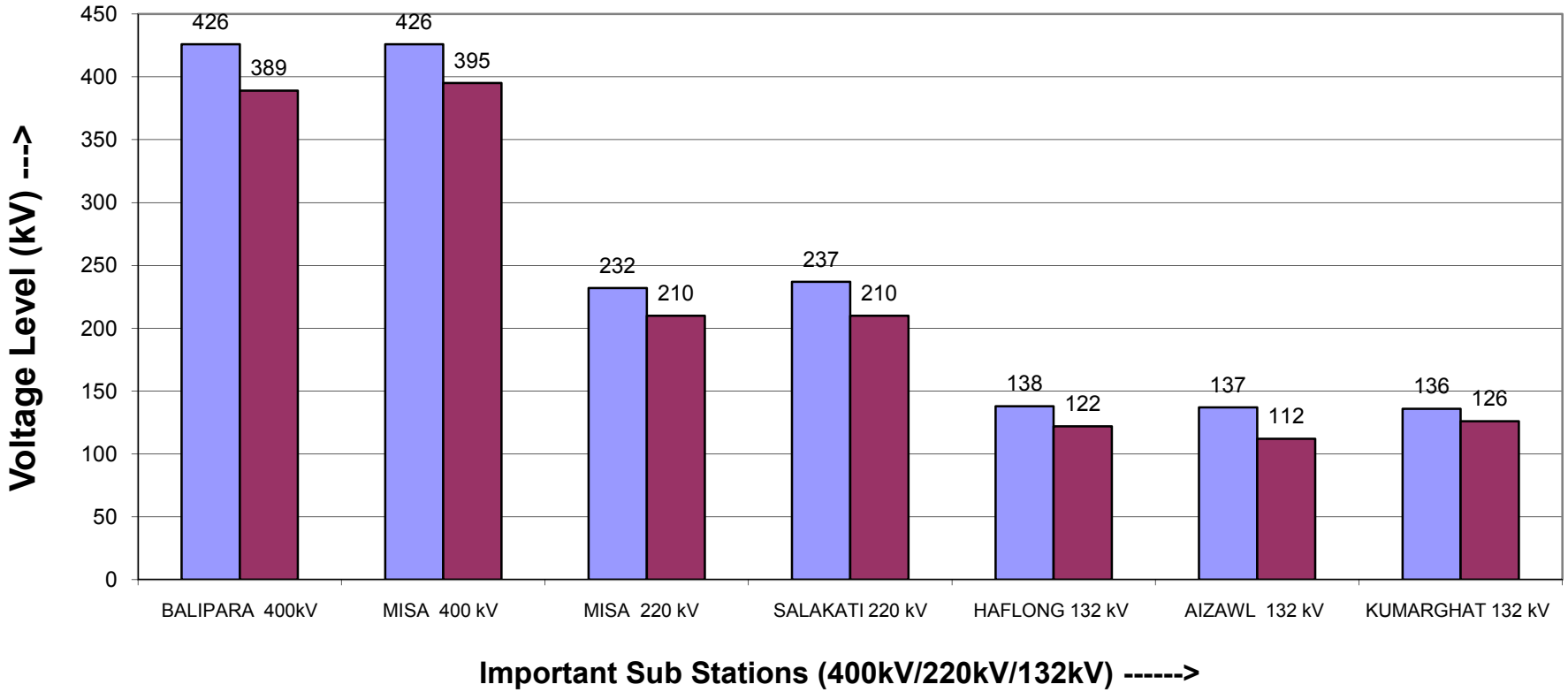


Exhibit-IV

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

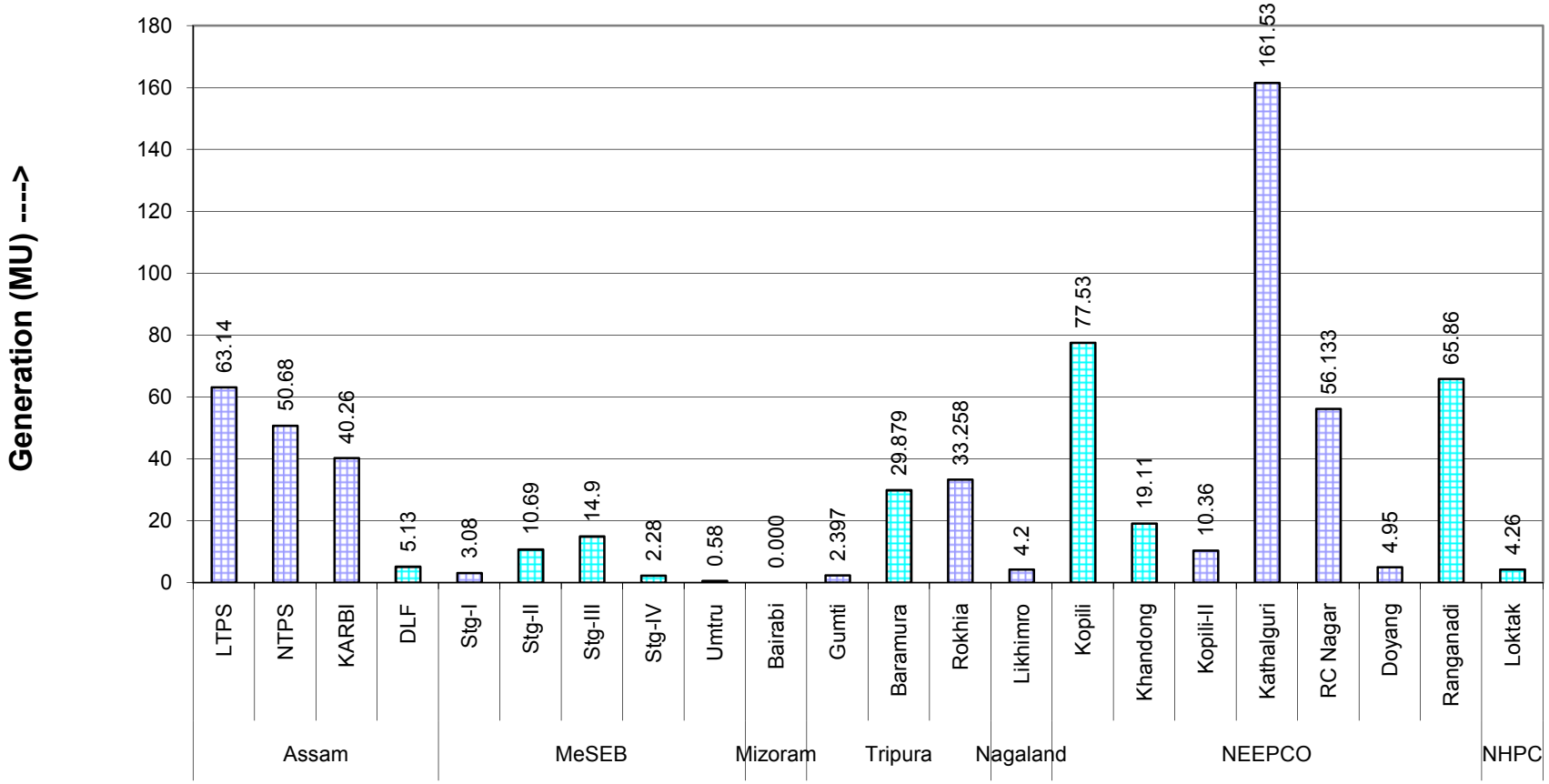


Exhibit-V

NER States Energy Scenario in May, 2011

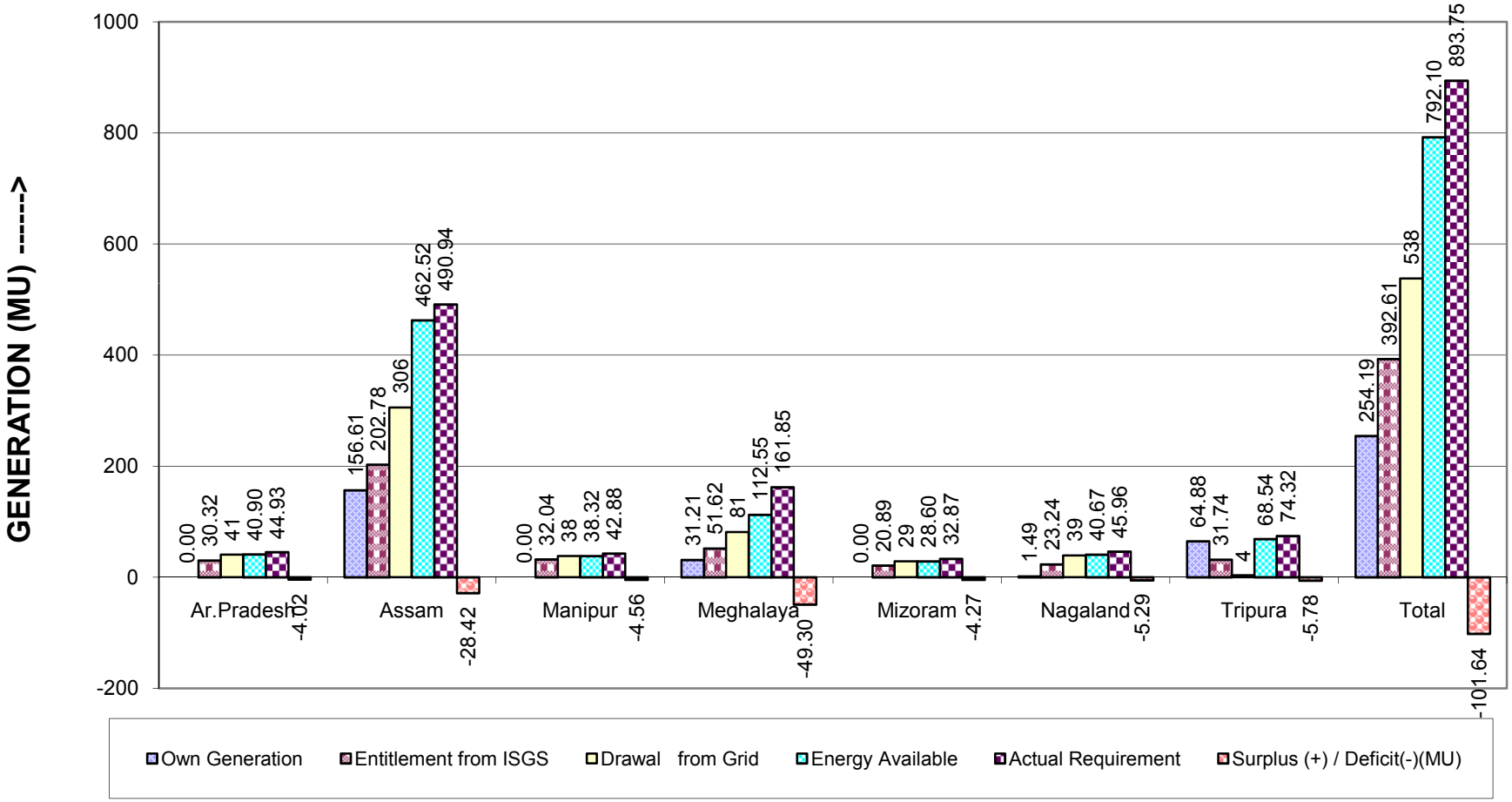


Exhibit-VI

Reservoir Statistics of NER in May, 2011