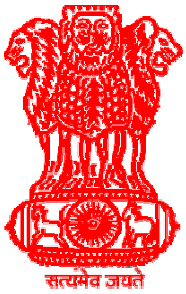


भारत सरकार Government of India
विद्युत मंत्रालय Ministry of Power
केंद्रीय विद्युत प्राधिकरण
Central Electricity Authority

उत्तर पूर्वी क्षेत्रीय विद्युत समिति
North Eastern Regional Power Committee

शिलोंग Shillong

Progress Report

For the month of

May, 2010

CONTENTS

NORTH EASTERN REGIONAL POWER COMMITTEE

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

The maximum unrestricted demand during the month of May, 2010 was 1578 MW, which was 1577 MW in the month of April, 2010. The peak demand met in NER during the period under review was 1322 MW, which was 1358 MW last month.

The maximum, minimum & average system frequency were 50.80, 48.76 & 49.73 Hz respectively. The maximum, minimum & average FVI were 4.380, 0.420 & 1.370 respectively. The average FVI was less than its previous month's figure. (refer Annex-II).

Maximum export of power from NER to ER was 308 MW (on 13/05/10 at 24:00 hrs) and that from ER to NER was 441 MW (07/05/10 at 11:00 hrs). Total net energy import during the month was 96.647 MU (from ER).

SALIENT FEATURES OF
NORTH EASTERN REGIONAL GRID FOR APRIL, 2010

1	New unit/ transmission lines/Transformers commissioned during this month		Nil	
2	Number of total grid disturbance during this month		1 (One)	
			May-10	**May-09**
3	**Installed Capacity** of the Region (in MW)(grid)		2033.12	2036.78
4	**Energy Generation in MU (Gross)::**			
	Thermal		349.935	374.117
	Hydel		232.310	220.343
	Diesel / Oil		0.000	0.000
	Total		582.245	594.460
5	**Demand in MW ::**			
	Registered Peak demand		1578.00	1568.65
	Peak demand met		1322.00	1342.00
	Shortage (% age)		-16.22	-14.45
6	**Regional Energy(Gross) in MU ::**			
	Energy requirement		745.97	751.37
	Energy availability		652.91	638.96
	Surplus (+) / Deficit (-) (% age)		-12.47	-14.96
7	**Inter Regional Energy Exchange in MU ::**			
	NER ----> ER		11.838	10.970
	ER ----> NER		108.485	93.500
	Net Export		-96.647	-82.53
8	**Frequency profile ::**			
	Average frequency (Hz)		49.73	49.68
	Average Frequency Variation Index		1.370	2.121
9	Load Factor (in %)		55.61	54.75

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

All figures in MU

Constituents	Hydro		Coal / Oil fired		Gas Based(OpenCycle)		Gas Based(Com Cycle)		Total(gen)	Total(gen)
	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net
	A	B	C	D	E	F	G	H	I	J
State Sector :										
Assam	18.610	18.424	0.000	0.000	71.130	70.419	50.990	49.460	140.730	138.303
Meghalaya	14.960	14.810	0.000	0.000	0.000	0.000	0.000	0.000	14.960	14.810
Mizoram	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tripura	0.940	0.931	0.000	0.000	51.430	50.916	0.000	0.000	52.370	51.846
Nagaland	1.350	1.337	0.000	0.000	0.000	0.000	0.000	0.000	1.350	1.337
Total (State Sector)									**209.410**	**206.296**
Central Sector :										
NEEPCO :										
Khd+Kop+Kop-II	8.400	8.316	0.000	0.000	0.000	0.000	0.000	0.000	8.400	8.316
K'guri	0	0	0.000	0.000	0	0	119.900	116.303	119.900	116.303
RCNagar	0	0	0	0	56.485	55.920	0	0	56.485	55.920
Doyang	3.510	3.475	0	0	0	0	0	0	3.510	3.475
Ranganadi	143.130	141.699	0	0	0	0	0	0	143.130	141.699
NHPC :										
Loktak	41.410	40.996	0.000	0.000	0.000	0.000	0.000	0.000	41.410	40.996
Total (Central Sector)									372.835	366.709
Total NER	232.310	229.987	0.000	0.000	179.045	177.255	170.890	165.763	**582.245**	**573.005**

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.	36.76	30.15	6.60	17.97%	85	64	21	24.71%
Assam	416.42	380.34	36.08	8.66%	849	802	47	5.58%
Manipur	43.67	36.20	7.47	17.11%	90	89	1	1.19%
M'laya	106.56	80.63	25.92	24.33%	275	186	89	32.41%
Mizoram	28.21	23.18	5.03	17.82%	60	52	8	13.78%
Nagaland	44.83	39.46	5.37	11.98%	86	85	1	0.69%
Tripura	69.52	62.94	6.58	9.46%	133	126	7	5.24%
REGION	745.97	652.91	93.06	12.47%	1578	1322	256	16.25%

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	64.00	01/05/2010	50.00	0.00	21	85.00
Assam	802.00	10/05/2010	49.61	9.38	38	849.38
Manipur	89.00	30/05/2010	49.60	1.07	0	90.07
Meghalaya	186.00	10/05/2010	49.61	2.18	87	275.18
Mizoram	52.00	12/05/2010	49.80	0.31	8	60.31
Nagaland	85.00	24/05/2010	49.77	0.59	0	85.59
Tripura	126.00	15/05/2010	49.48	1.97	5	132.97
REGION	1322.00	10/05/2010	49.61	15.47	241	1578.47

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

ESTIMATION OF ENERGY REQUIREMENT (in MU)

Average Frequency 49.73 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	39.113	2.855	30.155	-11.813	30.155	0.244	6.36	36.759
Assam	138.303	171.247	101.073	242.037	-30.283	380.339	3.081	33.00	416.420
Manipur	0.000	39.308	0.000	36.197	-3.111	36.197	0.293	7.18	43.670
M'laya	14.810	42.709	20.136	65.822	2.976	80.632	0.653	25.27	106.555
Mizoram	0.000	20.596	0.000	23.182	2.587	23.182	0.188	4.84	28.210
Nagaland	1.337	21.277	11.783	38.125	5.065	39.461	0.320	5.05	44.831
Tripura	51.846	34.131	0.000	11.097	-23.034	62.943	0.510	6.07	69.523
REGION	206.296	368.380	135.847	446.614	-57.613	652.910	5.289	87.77	745.969

*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-10	May-09
	STATE SECTOR : HYDRO				
	ASSAM :: HYDRO				
1	KARBI HEP U - 1	50.00	50.00	10.290	15.773
2	KARBI HEP U - 2	50.00	50.00	8.320	8.621
	TOTAL	100.00		18.61	24.394
	MEGHALAYA :: HYDRO				
1	STAGE - 1	36.00	27.00	1.610	5.140
2	STAGE - 2	18.00	13.50	5.740	2.620
3	STAGE - 3	60.00	30.10	7.320	8.160
4	STAGE - 4	60.00	59.80	0.000	9.030
5	UMTRU	11.20	12.40	0.290	3.940
6	SAONAPANI			0.000	0.000
	TOTAL	185.20		14.960	28.890
	NAGALAND :: HYDRO				
6	LIKIMRO - 1				
7	LIKIMRO - 2	24.00	10.00	1.350	2.500
8	LIKIMRO - 3				
	TOTAL	24.00		1.350	2.500
	TRIPURA :: HYDRO				
9	GUMTI - 1	5.00	Gumti Stn. Peak =4 MW	0.000	0.000
10	GUMTI - 2	5.00		0.000	0.000
11	GUMTI - 3	5.00		0.940	0.924
	TOTAL	15.00		0.940	0.924
	TOTAL STATE (HYDRO) :	324.20		35.860	56.708

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-10	May-09
	STATE SECTOR : THERMAL/GAS				
	MIZORAM ::Thermal				
1	Bairabi	22.92	0.00	0.000	0.000
	TRIPURA :: THERMAL				
1	BARAMURA - 1	5.00	Baramura Stn. Peak = 21 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		14.180	14.680
5	ROKHIA - 1	8.00	Rokhia Stn. Peak = 57.9 MW	0.000	0.000
6	ROKHIA - 2	8.00		0.000	0.000
7	ROKHIA - 3	8.00		4.550	3.980
8	ROKHIA - 4	8.00		3.750	3.737
9	ROKHIA - 5	8.00		0.000	0.000
10	ROKHIA - 6	8.00		0.000	0.000
11	ROKHIA - 7	21.00		14.660	14.773
12	ROKHIA - 8	21.00		14.290	14.847
	TOTAL	127.50		51.430	52.017
	ASSAM :: THERMAL				
1	LTPS - 1	15.00	LTPS Stn. Peak = 106 MW	6.090	9.970
2	LTPS - 2	15.00		9.420	9.510
3	LTPS - 3	15.00		5.420	10.150
4	LTPS - 4	15.00		8.240	8.760
5	LTPS - 5	20.00		10.600	7.410
6	LTPS - 6	20.00		13.480	14.520
7	LTPS - 7	20.00		12.220	8.140
8	NTPS - 1	20.00	NTPS Stn. Peak = 95 MW	11.550	12.840
9	NTPS - 2	21.00		10.750	11.240
10	NTPS - 3	21.00		9.540	10.030
11	NTPS - 4	11.00		5.000	0.000
12	NTPS - 5	22.00		8.290	6.880
13	NTPS - 6	22.00		5.860	5.720
14	DLF	24.50		5.660	7.060
	TOTAL	261.50		122.120	122.230
TOTAL STATE THERMAL/GAS :		411.92		173.550	174.247
TOTAL SC GEN(HY+TH/GAS)		**736.12**		**209.410**	**230.955**

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-10	May-09
	CENTRAL SECTOR : HYDRO				
1	KHANDONG - 1	25.00	0.00	0.000	4.315
2	KHANDONG - 2	25.00	0.00	0.000	3.330
3	KOPILI Stg - II	25.00	0.00	0.000	3.540
4	KOPILI - 1	50.00	0.00	0.000	9.180
5	KOPILI - 2	50.00	50.00	2.890	3.690
6	KOPILI - 3	50.00	50.00	3.230	0.000
7	KOPILI - 4	50.00	50.00	2.280	22.230
8	DOYANG -1	25.00	Doyang Stn. Peak = 45.5 MW	1.260	0.590
9	DOYANG -2	25.00		0.980	0.240
10	DOYANG -3	25.00		1.270	1.290
11	LOKTAK - 1	35.00	Loktak Stn. Peak = 66 MW	17.170	6.940
12	LOKTAK - 2	35.00		0.000	7.420
13	LOKTAK - 3	35.00		24.240	0.000
14	RANGANADI - 1	135.00	Ranganadi Stn. Peak =405 MW	40.360	32.780
15	RANGANADI - 2	135.00		48.830	32.320
16	RANGANADI - 3	135.00		53.940	35.770
	TOTAL HYDRO :	**860.00**		**196.450**	**163.635**
	CENTRAL SECTOR : THERMAL/GAS				
1	KATHALGURI - 1	33.50	Kathalguri Stn. Peak = 194 MW	22.400	21.720
2	KATHALGURI - 2	33.50		22.660	20.530
3	KATHALGURI - 3	33.50		18.110	19.240
4	KATHALGURI - 4	33.50		10.790	19.960
5	KATHALGURI - 5	33.50		21.400	1.890
6	KATHALGURI - 6	33.50		0.000	21.130
7	KATHALGURI - 7	30.00		17.430	16.200
8	KATHALGURI - 8	30.00		0.000	16.540
9	KATHALGURI - 9	30.00		7.110	8.390
10	R.C.NAGAR - 1	21.00	RC Nagar Stn. Peak = 83 MW	14.499	14.250
11	R.C.NAGAR - 2	21.00		14.188	14.122
12	R.C.NAGAR - 3	21.00		13.674	13.567
13	R.C.NAGAR - 4	21.00		14.124	12.331
TOTAL THERMAL/GAS :		375.00		176.385	199.870
TOTAL CS (HY + TH/GAS) :		1235.000		372.835	363.505
TOTAL NER GEN(HY+TH/GAS) :		**1971.120**		**582.245**	**594.460**

Plant Load Factor (PLF) and Voltage Profile :

May-10

PLANT LOAD FACTOR OF THE THERMAL/ GAS STATIONS IN NER

Sl. No.	Power Station	State/ Constituent	Installed Capacity (MW)	Generation (in MU)	Stationwise PLF (%)
1	LTPS*	AEGCL	120.00	65.470	73.33
2	NTPS*	AEGCL	117.00	50.990	58.58
3	Baramura	Tripura	37.50	14.180	50.82
4	Rokhia	Tripura	90.00	37.250	55.63
5	AGBPP	NEEPCO	291.00	119.900	55.38
6	AGTPP	NEEPCO	84.00	56.485	**90.38**
7	Bairabi	Mizoram	22.92	0.000	0.00

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

VOLTAGE PROFILE :

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

Sl. No.	NAME OF S/S	MAXIMUM (kV)	MINIMUM (kV)
1	BALIPARA 400 kV	426	381
2	MISA 400 kV	430	377
3	MISA 220 kV	237	205
4	SALAKATI 220 kV	237	210
5	HAFLONG 132 kV	142	128
6	AIZAWL 132kV	138	120
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	2.13	0.00	92.35	5.52
BALIPARA	0.35	0.00	97.94	1.71

1 **INTER - REGIONAL EXCHANGE :**

All Fig in MU

NER to ER	11.838
ER to NER	108.485
NET EXPORT	-96.647

2	**Major Grid Disturbances during this month**	**1. On 15.0510 at 12:13 Hrs. Category GD-V**

3	**MEETING HELD BY NERPC DURING THIS MONTH**	1. 50th OCC Meeting was held on 07.05.10 at NERLDC Conference hall, PGCIL, Shillong.

PROGRESS OF GENERATION PROJECTS IN NER

Name of the Generation Scheme	No. of Units	Capacity (MW)	Commissioning Schedule	REMARKS
[A] NEEPCO				
1. Monarchak TGBPP		104	2012	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	MAR' 2012	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	2012	Activities in progress
c) Siang Middle HEP		2000	2014	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	Unit # I- Mar' 2011 Unit # II- Aug' 2011 Unit # III- Jan' 2012	Activities in progress
[D] JV PROJECT				
a). Palatana CCPP	2	2X323.3	Unit # I- Dec'2011 Unit # II- Mar'2012	Activities in progress
[E] ASSAM				
(a) Lakwa WHRP		37.2	2012	Activities in progress
[F] MIZORAM				
(a) Tuivai Hydel Project	2	51	2012	Activities in progress
(b) Bairabi Dam Project	2	2 X 40	2012	Activities in progress
(G) MeSEB				
(a) Myntdu - Leishka HEP	2	3x42	2011	Activities in progress

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.								
132 kV Nazira - Lakwa 2nd Ckt	21						Completed	Work in progress
132 kV, S/C Rangia - Sipajhar - Rowta- Depota	147							Work in progress
132 kV, S/C Sarusajai - Kahilipara	8							Work in progress
LILO of 132 kV Mariani - Dimapur S/C at Bokajan	6					completed		Rly Clearance awaited
132 kV Nazira- Garmur (Mariani) S/C	63							Tender is in progress
220 kV Kathalguri - Tinsukia 2nd Ckt	50	2006-07						Work in progress
D : Lines under Meghalaya :								
Myntdu Leshka-Khlieriat 132 KV D/C			2011					Work in progress
220 kV Misa-Byrinahat D/C			Jun-10					Work in progress
132 kV Agia - Nangalbibra								Work in progress
E : Lines under Mizoram :								
132 kV Khawzawl-E Lungdar S/C	48			100	100	76	0	Work in progress
132 kV Khawzawl-Ngopa S/C	57			117	117	117	57	Work in progress
132 kV Kolasib-Tuirial S/C	41			114	114	114	41(Conductor)	Work in progress
Kolasib-Sairul B D/C	25							Work in progress
132 kV Kolasib-Melriat S/C	90			369	Nil	Nil	Nil	Work in progress
132 kV Bairabi-Bawktlang S/C	30			93	91	85	14	Work in progress
132 kV Khawzawl-Champhai S/C	30			90	Nil	Nil	Nil	Work in progress
G : CTU Lines:								
1.LILO of 132 kV Dimapur-Kohima at Dimapur (PG)	2	09/2009	03/2011	3				ROW problem
2. 132 kV Kopili-Khandong	12	09/2009	08/2010	43	37	24	8	ROW problem
3. 132 kV Aizwal-Aizwal (Deposit Work)			2010					
4.+/- 800 kV HVDC Bipol Bis'nath Chariali-Agra	1971	08/2013	08/2013	1343	174			Award is in progress
5. 400 kV Balipara - Biswanath Chariali D/C	130	08/2013	08/2013	167	25	5		
6.LILO of 400 kV R'nadi-Balipara D/C at Bis Chariali	54	08/2013	08/2013	68				Engg.&survey under progre
7. 400 kV Kameng - Balipara D/C	110	02/2013	02/2013	142	7			
8.400 kV Balipara - Bongaigaon D/C	596	02/2013	03/2012	838	205	44		
9. 400 kV Lower Subansiri - Biswanath Chariali line-I	334	02/2013	03/2012	432	80	18		
10. 400 kV Lower Subansiri - Biswanath Chariali line-II	340	02/2013	03/2012	442	13	3		
11. 132 kV D/C Biswanath Chariyali- B. Chariyali (AEGCL)	32	08/2013	08/2013	55				Engg.&survey under prog.
12.400 kV Palatana - Silchar	248							
13.400 kV Silchar - Bongaigaon	405							

Name of the line	Length	Commi'ng Sch		Total no.	Stubs com -	Tower	Stringing	Remarks
	(ckt kms)	Ann.pl	Ant/revd	of locs .	pleted(nos.)	Erected	complt-ckm	
H : Lines under Arunachal Pradesh								
i) Transmission Lines Plan works completed & on going								
1. 132 kV Nirjuli - Itanagar S/C (Under NLCPR)		2007-12				Completed	in progress	Work is in progress
2. 132 kV Along - Pasighat (Under NLCPR)		2007-12						Work is in progress
3. 132 kV Ranganadi - Itanagar S/C		2007-12						Work is in progress
ii) Proposed for XIth Five Years Plan (State)								
1. 132 kV Khupi - Seppa		2007-12						Work is in progress
2. 132 kV Line LILO at Bhalukpong		2007-12						Work is in progress
3. 132 kV Nirjuli - Banderdewa		2007-12						Work is in progress
4. 132 kV Along - Yingkiong		2007-12						Work is in progress
5. 132 kV Naharlagun - Seppa		2007-12						Work is in progress
6. 132 kV Roing - Anini		2007-12						Work is in progress
7. 132 kV Along - Reying		2007-12						Work is in progress
8. 132 kV Tezu - Roing		2007-12						Work is in progress
9. 132 kV Namsai - Tezu		2007-12						Work is in progress
10. 132 kV Ziro - Sangram		2007-12						Work is in progress
iii) Proposed for XIth Five Years Plan (NLCPR)								
1. 132 kV Pasighat - Roing		2007-12						Work is in progress
2. 132 kV Likabali - Gerukamukh		2007-12						Work is in progress
3. 132 kV Pasighat - Niglok		2007-12						Work is in progress
4. 132 kV Deomali - Khonsa		2007-12						Work is in progress
5. 132 kV Khupi - Banderdawa		2007-12						Work is in progress
6. 132 kV Banderdawa - Tawang		2007-12						Work is in progress
7. 132 kV Khonsa - Changlang		2007-12						Work is in progress
8. 132 kV Changlang - Jairampur		2007-12						Work is in progress
9. 132 kV Jairampur - Miao		2007-12						Work is in progress
10 132 kV Itanagar - Seijusa		2007-12						Work is in progress
11. 132 kV Seijusa - Balipara		2007-12						Work is in progress
iv) Proposed for XIth Five Years Plan (NEC)								
1. 132 kV Niglok - Likabali		2007-12						Work is in progress
2. 132 kV Itanagar - Gohpur		2007-12						Work is in progress

UI Receivable/ Payable for the month of May-10

Organisation	Actual (MU)	Schedule (MU)	UI Energy (MU)	UI Receivable (Rs. in Lakhs)	UI Payable (Rs. in Lakhs)
Arunachal Pradesh	30.155	33.842	-3.687	250.58	61.21
ASEB	242.037	265.075	-23.038	1538.67	146.94
Manipur	36.197	41.168	-4.971	293.07	35.91
MeSEB	65.822	66.127	-0.306	220.86	109.35
Mizoram	23.182	23.067	0.115	74.49	59.98
Nagaland	38.125	32.276	5.849	25.25	204.02
Tripura	11.097	29.303	-18.206	724.46	2.02

Entitlement, Schedule, Drawal and UI Charges May-10

	Entitlement from CGSs (MU)	Drawal Schedule from CGSs (MU)	Net Schedule from Grid (MU)	Actual Drawal from Grid (MU)	Over Drawal (+) / Under Drawal (-) (MU)	UI Payable (-)/ Receivable (+) (Rs. In Cr)
Arunachal Pradesh	39.113	39.189	33.842	30.155	-3.687	1.894
ASEB	171.247	170.881	265.075	242.037	-23.038	13.917
Manipur	39.308	39.351	41.168	36.197	-4.971	2.572
MeSEB	42.709	42.709	66.127	65.822	-0.306	1.115
Mizoram	20.596	20.594	23.067	23.182	0.115	0.145
Nagaland	21.277	21.231	32.276	38.125	5.849	-1.788
Tripura	34.131	34.424	29.303	11.097	-18.206	7.224

(Source : UI A/c, NERPC)

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

States	Schedule From ISGS(MWH)	Bilateral Schedule from Outside NER (MWH)	Total Schedule (MWH)	Ex.PP. Drawal (MWH)	Tr. Energy (MWH)
Arunachal Pradesh	39090.52		39090.52	31292.08	39090.52
ASEB	171043.74	104761.400000	275805.14	251163.55	275805.14
Manipur	39276.39		39276.39	37561.87	39276.39
MeSEB	42665.33	20870.250000	63535.58	68303.63	68303.63
Mizoram	20573.91		20573.91	24056.42	24056.42
Nagaland	21254.70	12211.60	33466.30	39562.50	39562.50
Tripura	34092.22		34092.22	11515.35	34092.22
Total	367996.82	137843.25	505840.07	463455.40	520186.82

ISGS	Schedule (MWH)	Injection (MWH)
LOKTAK	41305.58	40940.22
KHANDONG	0.00	-268.16
KOPILI-I	8408.47	7842.72
KOPILI-II	0.00	-29.97
DHEP	3169.17	3216.21
RHEP	142433.34	142869.77
AGTPP	54972.30	55429.16
AGBPP	117707.96	116808.75
Total	367996.82	366808.69

Source : Provisional REA for the month: May-10

Cumulative wt. Average Share Allocation (%) (Up to this month) in CS Stations

States	KOPILI (200 MW)	KOPILI-II (25 MW)	KHANDONG (50 MW)	RHEP (405 MW)	DHEP (75 MW)	AGBPP (291 MW)	AGTPP (84 MW)	Loktak HEP (90 MW)
Arunachal Pradesh	5.193	6.193	4.192	18.462	6.882	5.693	6.180	4.942
Assam	53.455	46.615	56.277	43.328	43.742	56.465	45.178	29.415
Manipur	7.385	7.225	6.565	8.373	7.893	8.125	8.143	30.115
Meghalaya	17.150	18.650	16.650	11.250	11.230	11.550	11.340	12.140
Mizoram	4.619	6.278	3.940	5.710	5.240	5.429	6.190	5.068
Nagaland	6.155	5.656	6.653	5.335	17.935	5.805	5.607	6.427
Tripura	6.043	9.383	5.723	7.542	7.078	6.933	17.362	11.893
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

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

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

HOURLY DATA ON PEAK DEMAND MET DAY

DATE:- 09.05.2010

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	254.29	211	241.82	452.8	53	153.7	100.72	71	99.9	28.38	35.72	22.45	48.86	38.60	279.40	589.79	852.06	869.19	17.1	237.15
2	254.30	210	220.92	430.8	5	106.6	101.64	71	97.0	25.84	28.88	21.21	48.32	31.73	242.21	540.40	764.65	782.61	18.0	236.34
3	251.48	210	194.41	404.3	5	104.8	99.76	72	94.8	23.12	26.69	20.72	40.46	31.65	204.35	538.03	723.36	742.39	19.0	232.45
4	254.42	209	173.60	382.8	5	108.4	103.38	72	87.3	15.55	26.60	20.40	38.69	35.53	177.10	540.38	699.71	717.48	17.8	236.65
5	252.53	208	179.35	387.8	5	128.7	123.74	71	99.7	28.67	26.88	24.74	46.05	38.15	213.56	536.97	752.03	750.54	-1.5	254.02
6	270.16	168	186.29	354.1	29	115.5	86.79	15	20.5	5.91	54.09	30.43	57.66	35.95	202.06	481.16	668.13	683.22	15.1	255.06
7	381.48	168	207.47	375.6	43	136.7	93.58	71	71.3	-0.08	55.20	43.19	62.36	41.05	142.83	664.19	785.49	807.03	21.5	359.94
8	375.66	168	221.85	389.6	43	153.9	111.34	71	78.0	6.91	54.85	47.98	58.69	41.01	182.74	657.11	824.09	839.85	15.8	359.89
9	375.72	167	236.38	403.4	29	142.6	113.36	71	81.2	10.43	62.66	38.06	52.11	44.63	195.67	642.86	824.77	838.53	13.8	361.96
10	238.34	123	277.78	401.0	29	133.9	104.63	69	69.1	0.08	53.34	33.54	45.10	31.77	321.11	459.92	767.81	781.03	13.2	225.12
11	240.88	123	295.57	418.8	5	91.5	86.47	68	71.2	2.73	45.29	32.13	40.72	32.92	311.86	437.63	732.57	749.49	16.9	223.95
12	257.19	123	291.80	415.1	9	101.5	92.43	68	77.2	8.99	38.77	35.15	42.93	30.74	315.99	457.79	741.41	773.78	32.4	224.82
13	252.77	123	286.87	410.1	18	96.9	78.73	67	68.1	0.77	52.52	35.67	45.15	33.28	302.56	461.50	741.71	764.06	22.3	230.43
14	254.15	123	270.52	393.8	18	105.8	87.73	68	52.5	-15.78	54.84	28.79	49.23	33.93	277.50	463.79	718.90	741.30	22.4	231.75
15	255.94	123	278.13	401.4	18	94.4	76.33	69	65.4	-3.26	60.24	33.35	48.33	33.31	286.13	465.95	736.43	752.08	15.6	240.30
16	255.13	123	284.88	408.1	18	103.1	85.03	69	66.6	-1.94	67.82	34.23	55.55	33.21	320.20	465.05	768.69	785.25	16.6	238.57
17	390.96	123	263.65	386.9	18	102.5	84.51	68	67.3	-1.13	59.04	35.15	33.40	48.79	146.04	600.67	733.10	746.71	13.6	377.35
18	567.65	167	368.72	536.1	18	116.1	98.01	63	72.1	8.99	58.27	36.76	44.22	60.41	131.93	816.24	923.97	948.17	24.2	543.44
19	788.71	167	462.86	629.9	34	144.7	110.42	69	89.6	20.29	72.08	36.32	43.55	66.42	55.08	1059.37	1082.59	1114.45	31.9	756.85
20	828.90	216	439.04	654.8	59	169.3	110.13	70	68.0	-2.09	72.56	39.93	53.86	65.20	-15.46	1173.97	1123.70	1158.51	34.8	794.09
21	815.03	216	429.03	644.8	55	163.6	108.18	68	73.8	5.36	73.81	39.41	45.01	59.89	-23.81	1154.59	1100.26	1130.78	30.5	784.50
22	692.38	216	392.21	608.0	54	154.0	100.12	71	80.4	8.93	71.55	32.16	42.35	51.92	38.34	1033.52	1040.38	1071.86	31.5	660.90
23	508.82	211	317.87	529.3	54	161.9	108.04	72	67.6	-3.97	70.50	24.34	33.06	43.26	110.42	845.69	929.98	956.12	26.1	482.68
24	399.63	210	267.48	477.8	30	129.4	99.27	71	53.3	-17.59	56.55	17.55	28.57	39.54	107.36	710.94	802.69	818.30	15.6	384.01
Max	828.90	216	462.86	654.82	59	169.3	123.74	72	99.9	28.67	73.81	47.98	62.36	66.42	321.11	1173.97	1123.70	1158.51	34.8	794.09
Min	238.34	123	173.60	354.07	5	91.5	76.33	15	20.5	-17.59	26.60	17.55	28.57	30.74	-23.81	437.63	668.13	683.22	-1.5	223.95

HOURLY DATA ON MINIMUM DEMAND MET DAY

DATE: 13.05.2010

All figures in MW

HRS.	Total ISGS Injection (MW)	STATE SECTOR													ER	Total N.E.R GEN	Total Demand Met	Gross Demand met = Sum of demand met of all the states+loss	Actual Loss	Total Drawal by States
		ASEB			MeSEB			Tripura			Manipur	Mizoram	Nagaland	ArPr						
		GEN	Demand Met	Drawal	GEN	Demand Met	Drawal	GEN	drawal	Demand Met	DM	DM	DM	DM	IMPORT(+)/ EXPORT(-)					
1	274.47	209	529.1	319.90	56	136.8	80.82	71	34.83	106.06	23.74	22.69	46.79	23.57	259.01	610.9	888.8	869.93	-18.9	293.33
2	280.01	144	388.4	244.52	5	96.7	91.67	72	30.74	102.26	16.54	21.77	45.47	29.26	222.93	500.4	700.4	723.37	23.0	257.04
3	279.05	148	389.3	240.90	5	93.3	88.27	71	28.74	99.90	17.00	21.37	44.43	23.20	211.75	503.6	688.4	715.33	26.9	252.15
4	277.75	139	375.3	236.66	5	96.8	91.78	71	26.09	97.22	13.78	20.51	44.14	21.64	208.70	492.5	669.3	701.21	31.9	245.87
5	288.37	139	348.8	210.14	5	124.0	119.05	71	18.24	89.28	18.30	24.03	50.77	24.70	202.10	503.0	679.9	705.15	25.2	263.12
6	343.30	139	365.1	226.51	5	124.0	119.05	71	21.72	92.99	43.42	-0.22	60.25	34.69	154.99	558.2	720.3	742.41	22.1	321.22
7	364.59	138	377.0	238.80	29	135.9	106.77	64	17.34	81.35	41.50	22.20	56.28	40.87	187.01	595.9	755.1	782.92	27.8	336.75
8	368.27	149	477.4	328.22	29	129.7	100.58	68	18.39	86.03	41.64	31.32	47.57	45.40	263.08	614.2	859.0	877.29	18.2	350.02
9	367.73	22	379.0	356.88	29	119.4	90.51	67	20.60	87.29	40.46	27.07	42.17	36.59	267.69	485.5	732.0	753.15	21.1	346.58
10	370.61	22	380.9	358.56	29	89.6	60.76	61	24.98	86.40	28.70	26.27	31.41	34.92	211.64	483.2	678.2	694.84	16.7	353.94
11	384.40	69	338.7	269.89	18	80.2	62.32	64	23.96	88.33	25.98	24.44	46.85	24.29	117.37	535.5	628.8	652.83	24.0	360.35
12	374.61	156	476.2	320.04	9	90.7	81.86	62	23.16	85.11	0.02	24.41	40.78	39.04	172.31	601.5	756.2	773.87	17.6	356.98
13	378.79	113	421.3	307.88	5	90.5	85.47	61	27.74	89.13	0.02	26.04	43.73	43.35	172.93	558.5	714.0	731.49	17.5	361.28
14	372.89	128	443.5	315.78	5	88.6	83.60	67	32.58	99.36	0.07	24.00	46.84	40.81	186.72	572.3	743.2	759.08	15.9	356.97
15	506.63	141	463.3	322.49	5	94.1	89.10	65	36.08	101.56	0.06	31.91	54.38	39.19	91.38	718.0	784.5	809.34	24.8	481.82
16	488.64	137	503.1	365.67	5	94.0	89.04	66	30.30	95.95	35.51	38.06	56.17	42.99	195.17	696.7	865.8	891.88	26.1	462.54
17	660.08	146	520.7	374.21	5	94.8	89.84	65	23.16	88.65	31.04	39.24	58.11	49.71	40.41	877.0	882.2	917.46	35.2	624.87
18	635.06	150	536.9	386.41	5	112.4	107.42	68	37.88	105.40	45.39	42.42	68.74	58.57	100.41	858.0	969.8	958.48	-11.4	646.41
19	755.02	213	650.8	437.82	43	139.8	96.76	70	37.56	107.23	57.20	45.13	72.09	66.35	81.45	1080.8	1138.7	1162.27	23.6	731.42
20	762.74	233	478.4	245.32	37	79.8	42.74	69	38.80	107.85	57.04	42.42	74.41	66.44	-168.93	1101.9	906.3	932.97	26.6	736.09
21	776.57	168	357.7	189.70	71	102.2	31.25	70	44.81	114.73	53.61	41.50	70.88	61.16	-253.97	1085.4	801.8	831.49	29.7	746.86
22	715.37	161	325.7	165.04	66	130.9	64.65	70	49.06	118.92	14.39	39.61	24.55	52.83	-255.77	1012.1	706.9	756.38	49.5	665.87
23	679.82	163	275.2	112.02	9	81.0	71.93	70	33.24	103.18	45.12	30.43	10.51	43.77	-328.04	922.0	589.2	594.01	4.8	675.04
24	441.39	171	274.5	103.06	5	81.6	76.59	70	36.17	106.49	35.64	23.72	23.01	34.54	-139.57	688.2	579.5	548.62	-30.9	472.28
Max	776.57	233	650.8	437.82	71	139.8	119.05	72	49.06	118.92	57.20	45.13	74.41	66.44	267.69	1101.9	1138.7	1162.27	49.5	746.86
Min	274.47	22	274.5	103.06	5	79.8	31.25	61	17.34	81.35	0.02	-0.22	10.51	21.64	-328.04	483.2	579.5	548.62	-30.9	245.87

ANNEXURES
&
EXHIBITS

Annexure-I

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

Name of the Reservoirs	FRL	MDDL	Beginning of the month		End of the month	
			Level	Energy content(MU)	Level	Energy content(MU)
KHANDONG	719.3 M	704 M	703.13	0.00	714.80	15.00
KOPILI	609.5 M	592.83 M	598.05	21.00	597.10	17.00
LOKTAK	768.5 M	766.2 M	767.63	69.66	768.30	200.00
BARAPANI	3220 Ft	3150 Ft	3164.78	6.30	3164.62	6.20
GUMTI	93.55 M	83.6 M	81.50	0.60	84.20	1.80
DOYANG	333 M	306 M	307.65	2.00	308.10	3.00

Annexure-II

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

Frequency	(Freq.in Hz)	(Time: H:M)	(Date:D.M.Y)
1. Maximum frequency	50.80	8:20	28.05.10
2. Minimum frequency	48.76	23:07	15.06.10
3. Monthly average	49.73		

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

f < 49.2	49.2 < f < 50.3	f >50.3
12.68	83.78	3.54

Daily Frequency Variation Index :

DATE	FVI	DATE	FVI
01-May-10	2.003	17-May-10	2.510
02-May-10	1.262	18-May-10	**4.380**
03-May-10	0.920	19-May-10	2.539
04-May-10	0.950	20-May-10	1.770
05-May-10	0.595	21-May-10	1.805
06-May-10	1.140	22-May-10	1.029
07-May-10	0.605	23-May-10	0.494
08-May-10	0.688	24-May-10	0.547
09-May-10	0.750	25-May-10	0.480
10-May-10	1.600	26-May-10	**0.420**
11-May-10	1.505	27-May-10	0.461
12-May-10	2.611	28-May-10	0.814
13-May-10	1.650	29-May-10	0.751
14-May-10	2.659	30-May-10	0.706
15-May-10	1.863	31-May-10	1.459
16-May-10	1.490	**Average FVI**	**1.370**

Annexure-III

Details of Scheduled Bilateral Exchanges within the Region in May-10

Sl.No.	From	To	Energy (At Seller Injn. Point) (MWH)		Energy (At State Periphery) (MWH)
1	Tripura(Baramura)	Manipur	3304.562500		3188.306938
2	Tripura(Baramura)	Mizoram	3304.562500		3188.306938
3	ASEB	POWERGRID^	213.615275	^ The actual energy consumed by POWERGRID	
4	TSECL	MeSEB (NVVN)	270.000000		258.430000

Scheduled Bilateral Exchange with SEBs / Organisations in other Regions

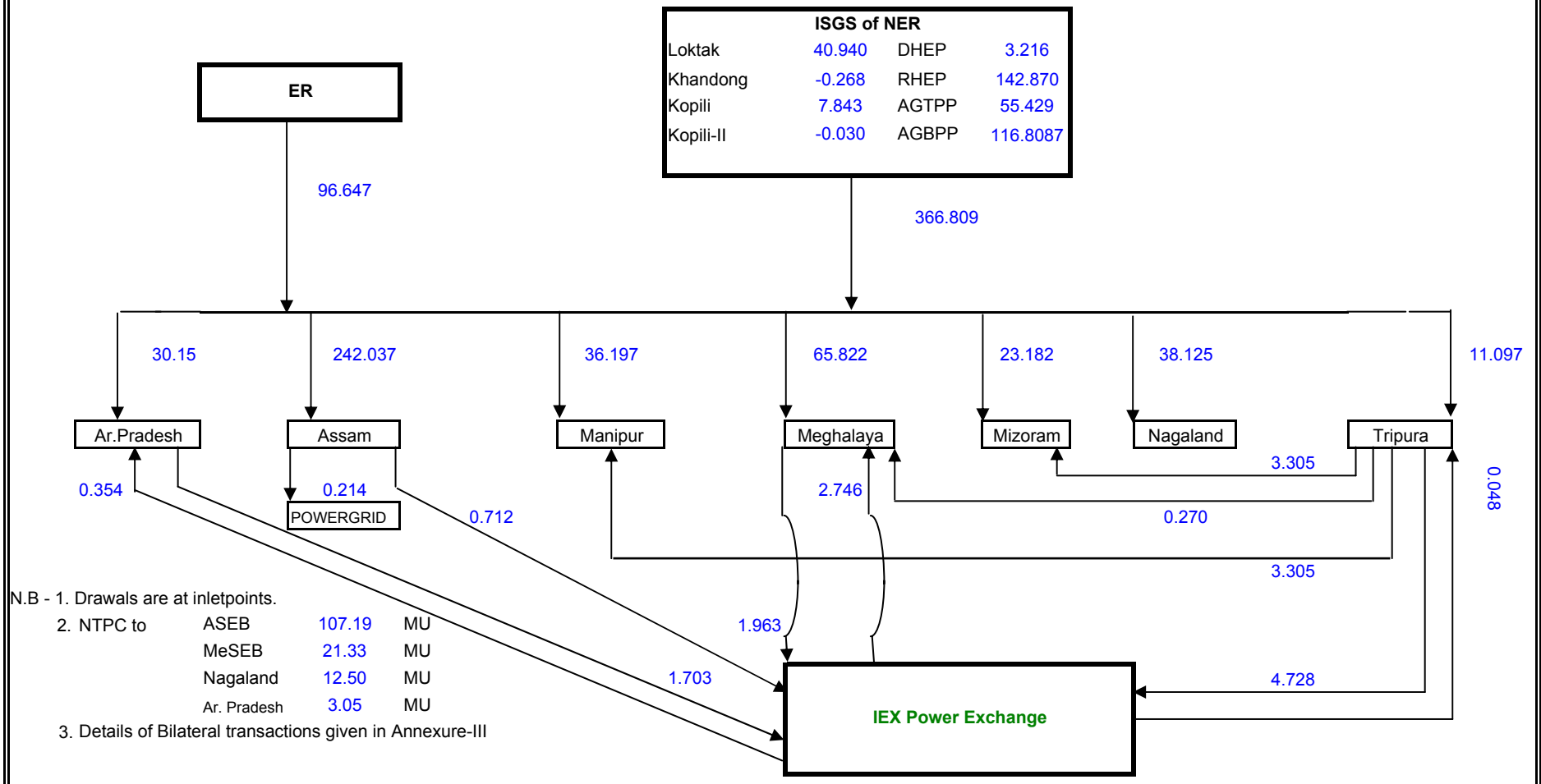
Sl.No.	From	To	Energy (At Seller Periphery) (MWH)	Energy (At NER-ER Periphery) (MWH)	Energy (At Buyer Periphery) (MWH)
1	Ar. Pradesh	BRPL (AP)	5507.750000	5326.990000	
2	APDCL	WBSEDCL (NVVN)	350.000000	339.150000	
3	APDCL	MSEDCL (NVVN)	312.500000	302.812500	
4	HPPC	APDCL (NVVN)	240.000000	227.340000	218.700000
5	HPPC	APDCL (NVVN)	240.000000	227.340000	218.700000
6	Shyam Century	TNEB (LANCO)	6048.000000	5638.320000	
7	WBSEDCL	MeECL (NVVN)	5980.000000	5846.480000	5650.520000
8	GFL	MeECL (RPTCL)	4464.000000	4037.280000	3895.440000
9	WBSEDCL	TSECL (NVVN)	8092.000000	7914.010000	7638.100000
10	Farakka*	Ar. Pradesh	1434.639375	1394.525000	1345.647800
11	Kahalgaon 1*	Ar. Pradesh	583.534000	544.125000	525.053000
12	Talcher*	Ar. Pradesh	1030.198125	1020.200000	984.430800
13	Farakka*	Assam	43068.923625	42101.100000	40621.758225
14	Kahalgaon 1*	Assam	11902.536250	11639.675000	11230.027800
15	Kahalgaon 2*	Assam	29668.171500	28982.625000	27958.194350
16	Talcher*	Assam	22547.172375	22038.000000	21262.714700
17	Farakka*	MeECL	5547.272250	5416.150000	5226.217400
18	Kahalgaon 1*	MeECL	2417.498000	2380.925000	2297.480100
19	Kahalgaon 2*	MeECL	9381.240000	9176.175000	8851.873200
20	Talcher*	MeECL	3983.432750	3897.000000	3760.422300
21	Farakka*	Nagaland	5812.524625	5683.825000	5484.534750
22	Kahalgaon 1*	Nagaland	2501.712000	2448.025000	2362.220300
23	Talcher*	Nagaland	4181.823250	4079.750000	3936.710150

Bilateral exchange through IEX Power Exchange (-ve means injection, +ve means drawal)

24	Arunachal Pradesh		-1703.130000	-1651.000000	
25	Arunachal Pradesh			368.900000	354.480000
26	Assam		-711.790000	-689.720000	
27	MeSEB		-1962.770000	-1894.420000	
28	MeSEB			2848.570000	2745.560000
29	Tripura		-4728.350000	-4568.120000	
30	Tripura			50.000000	48.010000

Annexure-IV

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



N.B - 1. Drawals are at inletpoints.

2. NTPC to

ASEB	107.19	MU
MeSEB	21.33	MU
Nagaland	12.50	MU
Ar. Pradesh	3.05	MU

3. Details of Bilateral transactions given in Annexure-III

Exhibit-I

Frequency Duration for May, 2010

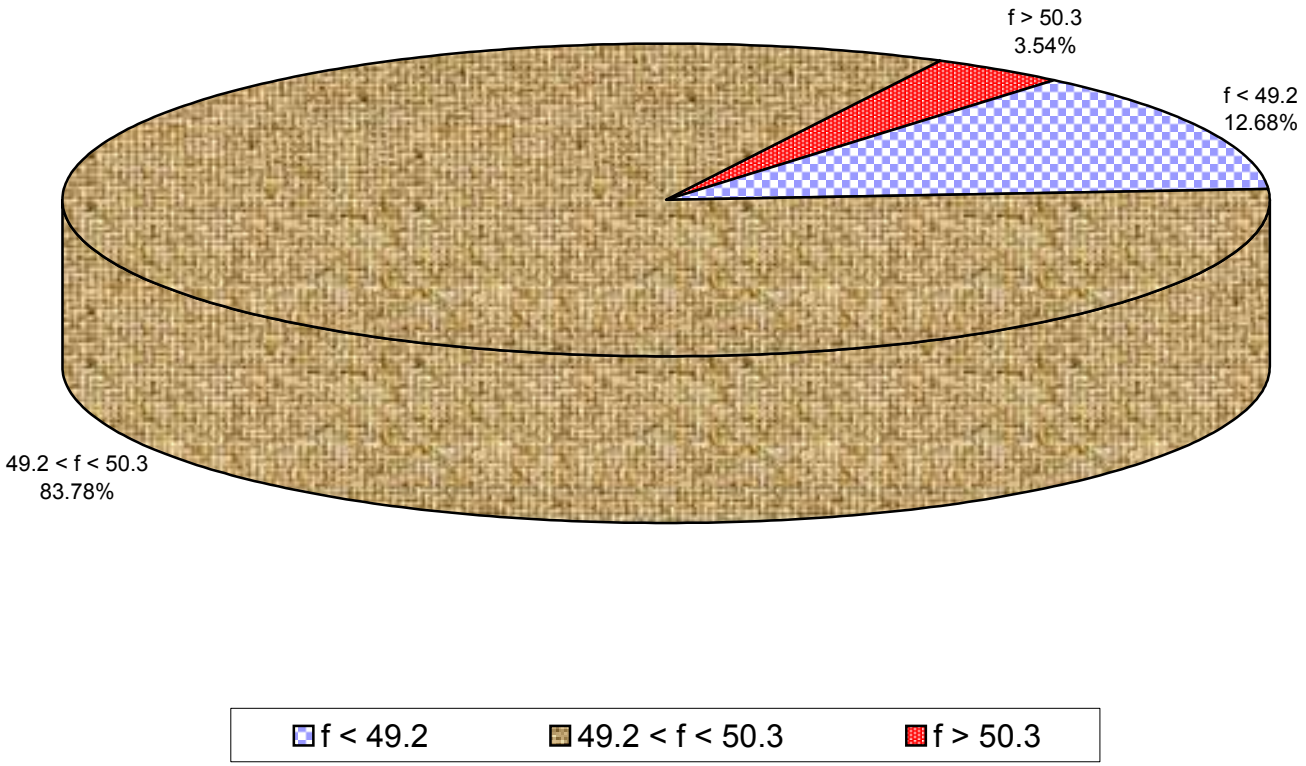


Exhibit-II

FVI Characteristics for May, 2010

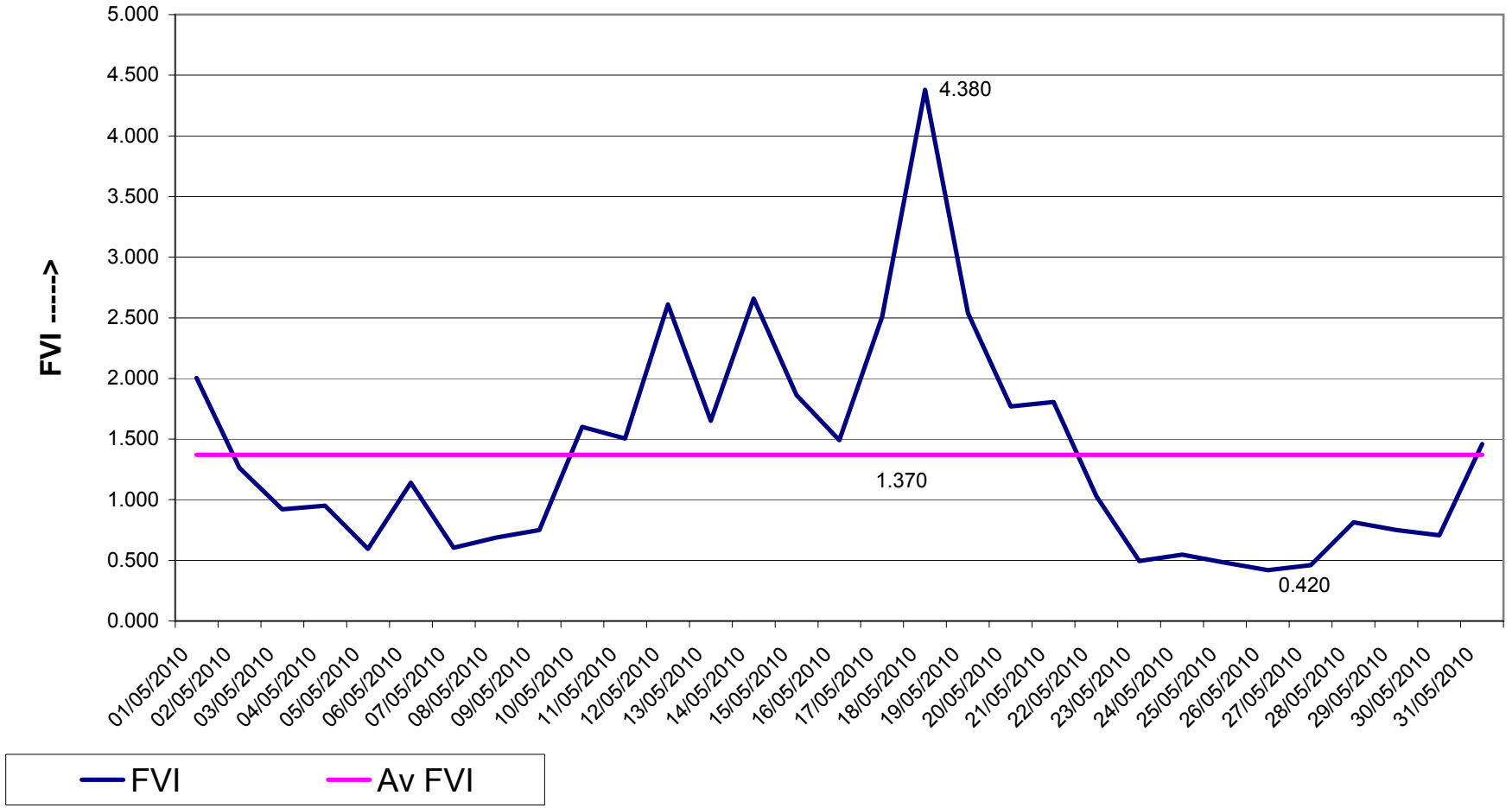


Exhibit-III

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

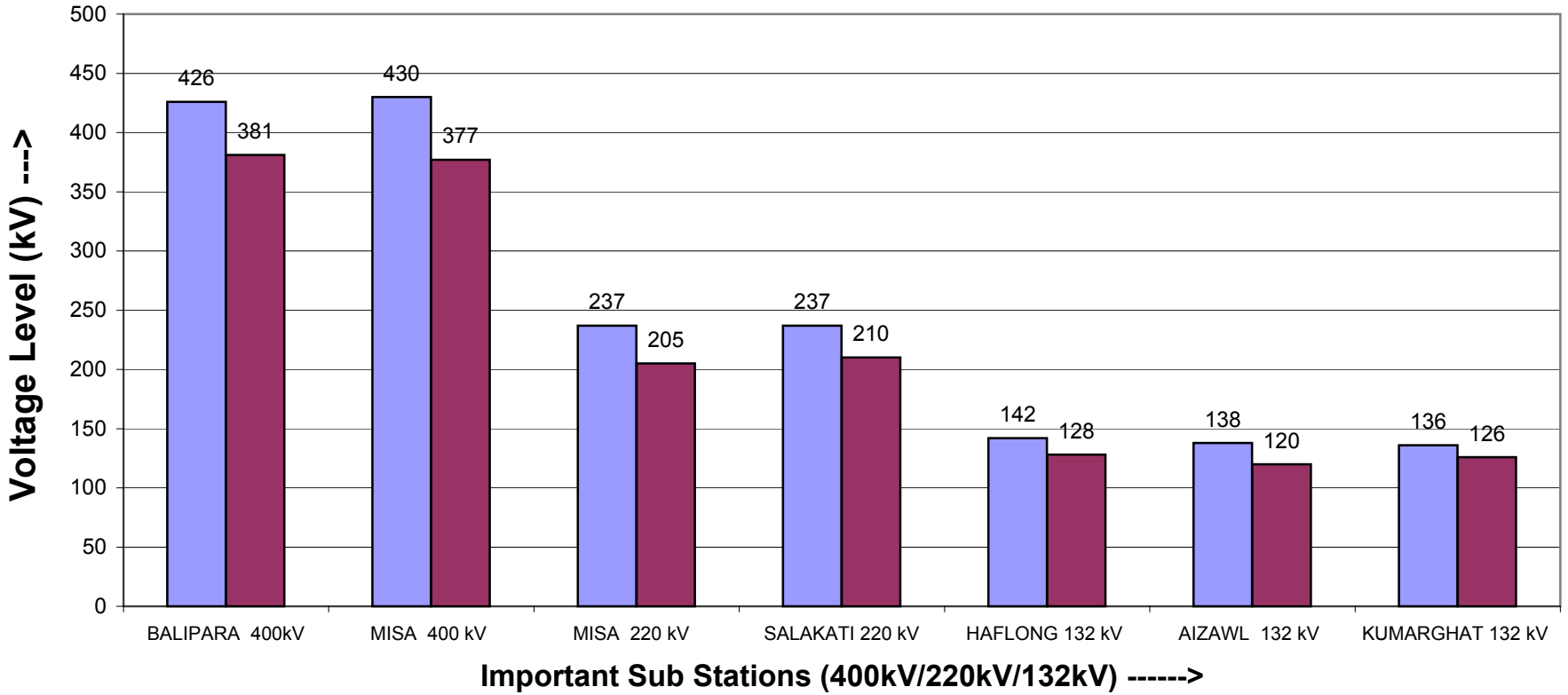


Exhibit-IV

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

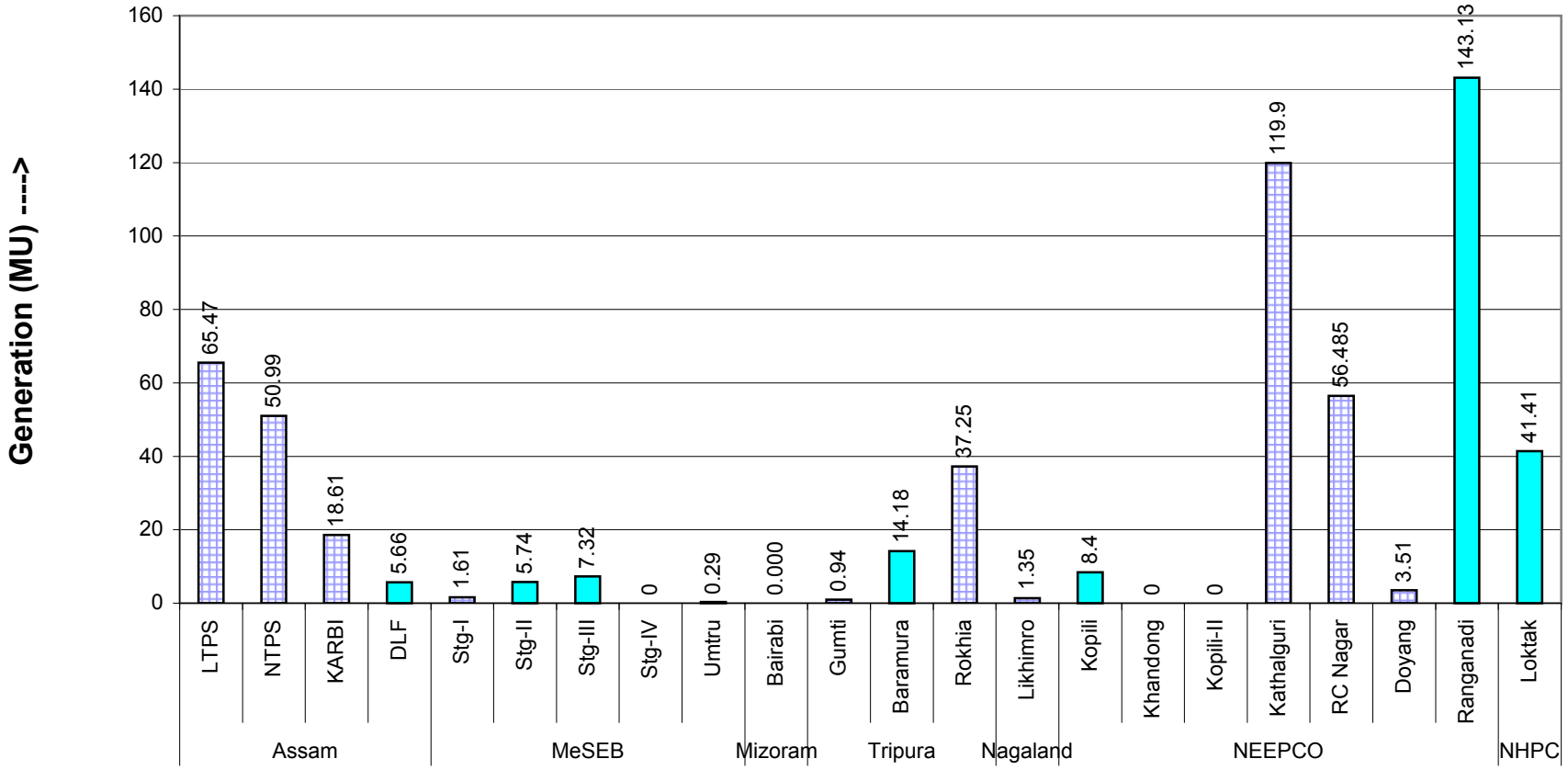


Exhibit-V

NER States Energy Scenario in May, 2010

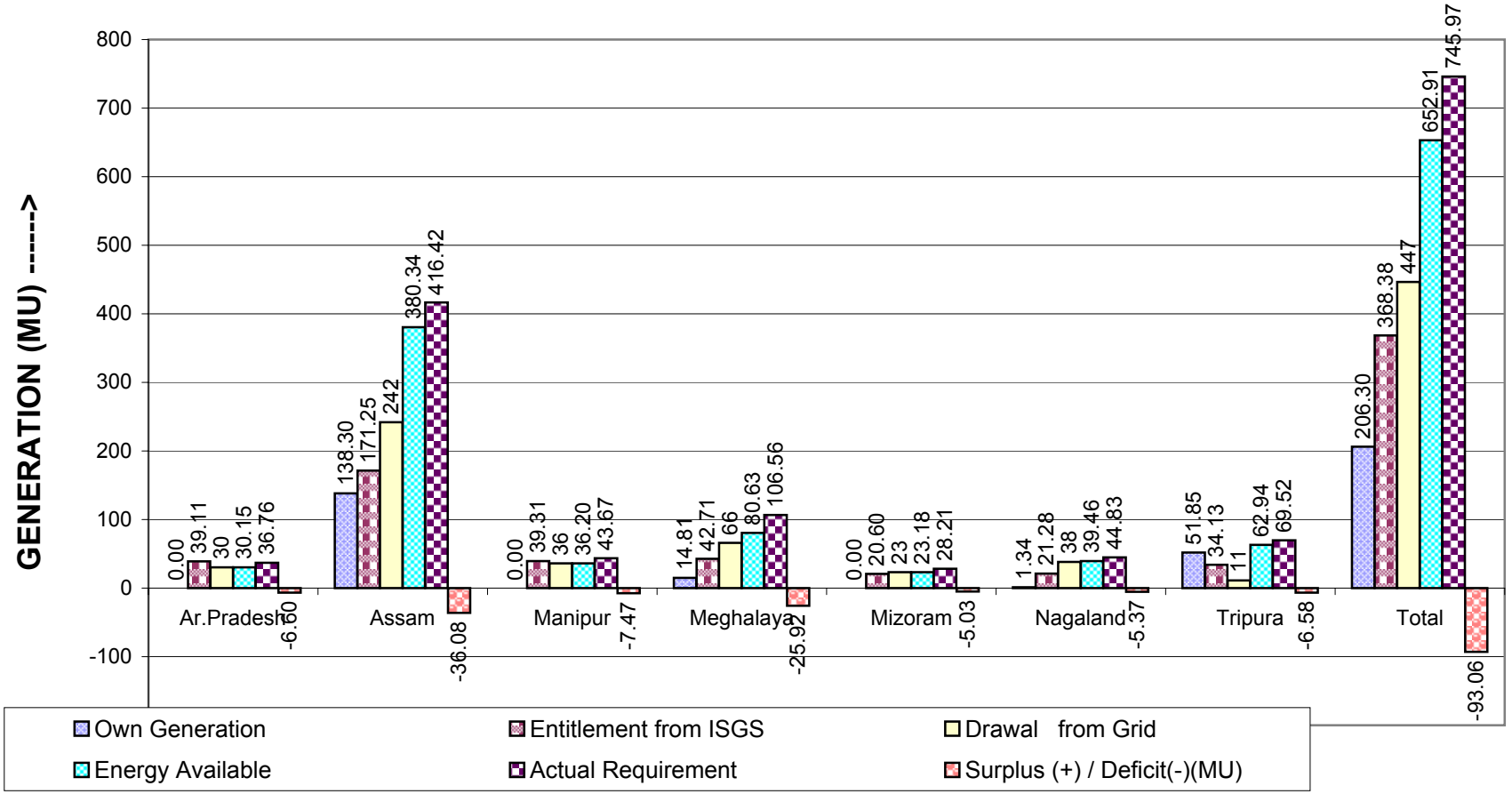


Exhibit-VI

Reservoir Statistics of NER in May, 2010