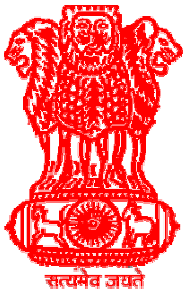


भारत सरकार Government of India
विद्युत मंत्रालय Ministry of Power
केंद्रीय विद्युत प्राधिकरण
Central Electricity Authority

उत्तर पूर्वी क्षेत्रीय विद्युत समिति
North Eastern Regional Power Committee

शिलोंग Shillong

Progress Report

For the month of

June, 2010

CONTENTS

NORTH EASTERN REGIONAL POWER COMMITTEE

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

The maximum unrestricted demand during the month of June, 2010 was 1720 MW, which was 1578 MW in the month of May, 2010. The peak demand met in NER during the period under review was 1451 MW, which was 1322 MW last month.

The maximum, minimum & average system frequency were 50.72, 48.77 & 49.83 Hz respectively. The maximum, minimum & average FVI were 1.880, 0.243 & 0.750 respectively. The average FVI was less than its previous month's figure. (refer Annex-II).

Maximum export of power from NER to ER was 398 MW (on 29/06/10 at 14:00 hrs) and that from ER to NER was 339 MW (16/06/10 at 22:00 hrs). Total net energy import during the month was 25.671 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		Nil	
			Jun-10	Jun-09
3	**Installed Capacity** of the Region (in MW)(grid)		2033.12	2036.78
4	**Energy Generation in MU (Gross)::**			
	Thermal		340.620	367.022
	Hydel		372.581	315.297
	Diesel / Oil		0.000	0.000
	Total		713.201	682.319
5	**Demand in MW ::**			
	Registered Peak demand		1720.00	1619.56
	Peak demand met		1451.00	1380.00
	Shortage (% age)		-15.64	-14.79
6	**Regional Energy(Gross) in MU ::**			
	Energy requirement		797.21	770.96
	Energy availability		707.87	672.80
	Surplus (+) / Deficit (-) (% age)		-11.21	-12.73
7	**Inter Regional Energy Exchange in MU ::**			
	NER ----> ER		45.262	13.380
	ER ----> NER		70.933	53.200
	Net Export		-25.671	-39.82
8	**Frequency profile ::**			
	Average frequency (Hz)		49.83	49.51
	Average Frequency Variation Index		0.750	3.530
9	Load Factor (in %)		57.16	57.70

ENERGY GENERATION IN THE REGION FOR THE MONTH OF Jun-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	48.110	47.629	0.000	0.000	65.184	64.532	46.310	44.921	159.604	157.082
Meghalaya	20.680	20.473	0.000	0.000	0.000	0.000	0.000	0.000	20.680	20.473
Mizoram	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tripura	3.552	3.516	0.000	0.000	51.884	51.365	0.000	0.000	55.436	54.881
Nagaland	8.000	7.920	0.000	0.000	0.000	0.000	0.000	0.000	8.000	7.920
Total (State Sector)									**243.720**	**240.356**
Central Sector :										
NEEPCO :										
Khd+Kop+Kop-II	31.170	30.858	0.000	0.000	0.000	0.000	0.000	0.000	31.170	30.858
K'guri	0	0	0.000	0.000	0	0	122.250	118.583	122.250	118.583
RCNagar	0	0	0	0	54.992	54.442	0	0	54.992	54.442
Doyang	22.510	22.285	0	0	0	0	0	0	22.510	22.285
Ranganadi	187.950	186.071	0	0	0	0	0	0	187.950	186.071
NHPC :										
Loktak	48.290	47.807	0.000	0.000	0.000	0.000	0.000	0.000	48.290	47.807
Total (Central Sector)									467.162	460.045
Total NER	370.262	366.559	0.000	0.000	172.060	170.339	168.560	163.503	**710.882**	**700.402**

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.	39.42	31.65	7.77	19.72%	96	69	27	27.96%
Assam	451.57	418.02	33.55	7.43%	899	843	56	6.27%
Manipur	47.32	41.29	6.03	12.75%	90	87	3	3.86%
M'laya	105.75	85.32	20.44	19.32%	280	190	90	32.18%
Mizoram	28.30	23.00	5.30	18.72%	70	57	13	18.14%
Nagaland	47.07	43.32	3.75	7.97%	100	95	5	5.40%
Tripura	77.78	65.28	12.50	16.07%	185	149	36	19.32%
REGION	797.21	707.87	89.34	11.21%	1720	1451	269	15.62%

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	69.00	23/06/2010	49.62	0.79	26	95.79
Assam	843.00	26/06/2010	49.47	13.40	43	899.40
Manipur	87.00	01/06/2010	49.81	0.50	3	90.50
Meghalaya	190.00	22/06/2010	49.62	2.17	88	280.17
Mizoram	57.00	18/06/2010	49.63	0.63	12	69.63
Nagaland	95.00	28/06/2010	49.85	0.43	5	100.43
Tripura	149.00	28/06/2010	49.85	0.67	35	184.67
REGION	1451.00	24/06/2010	50.10	-4.35	273	1719.65

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

ESTIMATION OF ENERGY REQUIREMENT (in MU)

Average Frequency 49.83 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	50.030	2.778	31.646	-21.162	31.646	0.161	7.61	39.417
Assam	157.082	212.357	93.064	260.938	-44.482	418.020	2.132	31.42	451.572
Manipur	0.000	48.009	0.000	41.286	-6.723	41.286	0.211	5.82	47.317
M'laya	20.473	54.463	18.372	64.847	-7.988	85.320	0.435	20.00	105.755
Mizoram	0.000	25.520	0.000	23.003	-2.517	23.003	0.117	5.18	28.301
Nagaland	7.920	28.783	11.398	35.395	-4.785	43.315	0.221	3.53	47.066
Tripura	54.881	40.941	0.000	10.395	-30.546	65.277	0.333	12.17	77.780
REGION	240.356	460.103	125.611	467.511	-118.203	707.868	3.610	85.73	797.208

*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)	
				Jun-10	Jun-09
	STATE SECTOR : HYDRO				
	ASSAM :: HYDRO				
1	KARBI HEP U - 1	50.00	50.00	24.760	30.670
2	KARBI HEP U - 2	50.00	50.00	23.350	13.970
	TOTAL	100.00		48.11	44.64
	MEGHALAYA :: HYDRO				
1	STAGE - 1	36.00	27.00	2.666	7.350
2	STAGE - 2	18.00	12.60	1.232	3.660
3	STAGE - 3	60.00	60.00	7.410	12.610
4	STAGE - 4	60.00	60.00	11.348	13.960
5	UMTRU	11.20	12.20	0.344	4.440
	TOTAL	185.20		22.999	42.020
	NAGALAND :: HYDRO				
6	LIKIMRO - 1				
7	LIKIMRO - 2	24.00	20.00	8.000	8.500
8	LIKIMRO - 3				
	TOTAL	24.00		8.000	8.500
	TRIPURA :: HYDRO				
9	GUMTI - 1	5.00	Gumti Stn. Peak =8 MW	0.171	0.000
10	GUMTI - 2	5.00		2.074	0.000
11	GUMTI - 3	5.00		1.307	2.257
	TOTAL	15.00		3.552	2.257
	TOTAL STATE (HYDRO) :	324.20		82.661	97.417

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)	
				Jun-10	Jun-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		14.457	14.935
5	ROKHIA - 1	8.00	Rokhia Stn. Peak = 56.3 MW	0.000	0.000
6	ROKHIA - 2	8.00		0.000	0.000
7	ROKHIA - 3	8.00		4.140	4.017
8	ROKHIA - 4	8.00		4.092	4.258
9	ROKHIA - 5	8.00		0.000	0.000
10	ROKHIA - 6	8.00		0.000	0.000
11	ROKHIA - 7	21.00		14.437	14.793
12	ROKHIA - 8	21.00		14.758	14.797
	TOTAL	127.50		51.884	52.800
	ASSAM :: THERMAL				
1	LTPS - 1	15.00	LTPS Stn. Peak = 118 MW	4.190	6.060
2	LTPS - 2	15.00		8.860	8.880
3	LTPS - 3	15.00		8.930	9.900
4	LTPS - 4	15.00		7.800	7.790
5	LTPS - 5	20.00		10.730	8.330
6	LTPS - 6	20.00		7.104	13.610
7	LTPS - 7	20.00		12.230	5.830
8	NTPS - 1	20.00	NTPS Stn. Peak = 90 MW	10.060	12.340
9	NTPS - 2	21.00		10.820	8.610
10	NTPS - 3	21.00		8.910	8.880
11	NTPS - 4	11.00		6.080	0.000
12	NTPS - 5	22.00		4.900	9.570
13	NTPS - 6	22.00		5.540	7.540
14	DLF	24.50		5.340	7.670
	TOTAL	261.50		111.494	115.010
TOTAL STATE THERMAL/GAS :		411.92		163.378	167.810
TOTAL SC GEN(HY+TH/GAS)		**736.12**		**246.039**	**265.227**

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)	
				Jun-10	Jun-09
	CENTRAL SECTOR : HYDRO				
1	KHANDONG - 1	25.00	0.00	0.000	8.990
2	KHANDONG - 2	25.00	25.00	4.640	7.160
3	KOPILI Stg - II	25.00	25.00	6.220	9.580
4	KOPILI - 1	50.00	0.00	0.000	16.720
5	KOPILI - 2	50.00	50.00	5.320	30.640
6	KOPILI - 3	50.00	50.00	5.960	0.920
7	KOPILI - 4	50.00	50.00	9.030	29.210
8	DOYANG -1	25.00	Doyang Stn. Peak = 68.4 MW	6.990	3.000
9	DOYANG -2	25.00		7.430	3.060
10	DOYANG -3	25.00		8.090	3.350
11	LOKTAK - 1	35.00	Loktak Stn. Peak = 99 MW	15.260	0.510
12	LOKTAK - 2	35.00		11.870	6.450
13	LOKTAK - 3	35.00		21.160	0.000
14	RANGANADI - 1	135.00	Ranganadi Stn. Peak =407 MW	53.870	31.520
15	RANGANADI - 2	135.00		69.770	34.090
16	RANGANADI - 3	135.00		64.310	32.680
	TOTAL HYDRO :	**860.00**		**289.920**	**217.880**
	CENTRAL SECTOR : THERMAL/GAS				
1	KATHALGURI - 1	33.50	Kathalguri Stn. Peak = 211 MW	21.310	20.940
2	KATHALGURI - 2	33.50		21.210	19.630
3	KATHALGURI - 3	33.50		16.690	21.480
4	KATHALGURI - 4	33.50		15.140	20.250
5	KATHALGURI - 5	33.50		19.400	0.000
6	KATHALGURI - 6	33.50		0.000	20.190
7	KATHALGURI - 7	30.00		16.590	16.610
8	KATHALGURI - 8	30.00		5.510	18.500
9	KATHALGURI - 9	30.00		6.400	7.240
10	R.C.NAGAR - 1	21.00	RC Nagar Stn. Peak = 88 MW	14.094	13.510
11	R.C.NAGAR - 2	21.00		13.828	13.725
12	R.C.NAGAR - 3	21.00		13.267	13.519
13	R.C.NAGAR - 4	21.00		13.803	13.618
TOTAL THERMAL/GAS :		375.00		177.242	199.212
TOTAL CS (HY + TH/GAS) :		1235.000		467.162	417.092
TOTAL NER GEN(HY+TH/GAS) :		**1971.120**		**713.201**	**682.319**

Plant Load Factor (PLF) and Voltage Profile : Jun-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	59.844	69.26
2	NTPS*	AEGCL	117.00	46.310	54.97
3	Baramura	Tripura	37.50	14.457	53.54
4	Rokhia	Tripura	90.00	37.427	57.76
5	AGBPP	NEEPCO	291.00	122.250	58.35
6	AGTPP	NEEPCO	84.00	54.992	**90.93**
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	429	378
2	MISA 400 kV	438	388
3	MISA 220 kV	233	212
4	SALAKATI 220 kV	235	211
5	HAFLONG 132 kV	141	127
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	1.01	0.00	88.63	10.36
BALIPARA	0.97	3.66	92.14	3.23

1 **INTER - REGIONAL EXCHANGE :**

All Fig in MU

NER to ER	45.262
ER to NER	70.933
NET EXPORT	-25.671

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

3	**MEETING HELD BY NERPC DURING THIS MONTH**	1. 51st OCC Meeting was held on 11.06.10 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	2013	Activities in progress
2. Tuirial HEP Mizoram	2	2 X 30	WORKS HELD-UP	Being reviewed by PIB
3. Kameng HEP A. Pradesh	4	4X150	2012-13	Activities in progress
4. Tuival H.E. Proj. Mizoram	3	3X70	2015	Status not available
5. Tipaimukh HEP		1500	2015	Activities in progress
6. Mawphu HEP	2	90	2014	UNDER CCEA
7. Pare HEP, Ar. Pradesh		110	2015	UNDER CCEA
[B] NHPC				
a). Loktak Downstream HEP	2	66	2014	Activities in progress
b) Subansiri Lower HEP		2000	2013	Activities in progress
c) Siang Middle HEP		2000	2016	Activities in progress
d) Subansiri Upper HEP		2000	DPR Under prep	
e) Subansiri Middle HEP		1000	DPR Under prep	
f) Dibang Multipurpose Project		3000	Under TEC	
[C] NTPC				
a). Bongaigaon TPS	3	3X250	2012	Activities in progress
[D] JV PROJECT				
a). Palatana CCPP	2	2X323.3	2012	Activities in progress
[E] ASSAM				
(a) Lakwa WHRP		37.2	2012	Activities in progress
(b) Namrup CCPP	2	2X40	2012	
[F] MIZORAM				
(a) Tuivai Hydel Project	2	51	2012	Activities in progress
(b) Bairabi Dam Project	2	2 X 40	2012	Activities in progress
(G) MeSEB				
(a) Myntdu - Leishka HEP	2	3x42	2011	Activities in progress
(b) New Umtru HEP	2	2X20	2013	Activities in progress
(H) Tripura				
(a) Baramura GT # U-V	1	25	2010	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			2010					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					Completed
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 Jun-10

Organisation	Actual (MU)	Schedule (MU)	UI Energy (MU)	UI Receivable (Rs. in Lakhs)	UI Payable (Rs. in Lakhs)
Arunachal Pradesh	31.646	39.768	-8.122	257.23	38.90
ASEB	260.938	273.497	-12.558	503.51	137.93
Manipur	41.286	49.519	-8.232	237.71	19.82
MeSEB	64.847	69.130	-4.283	181.06	39.07
Mizoram	23.003	27.802	-4.799	151.07	4.49
Nagaland	35.395	26.775	8.620	6.03	250.83
Tripura	10.395	21.804	-11.409	365.93	5.22

Entitlement, Schedule, Drawal and UI Charges Jun-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	50.030	50.087	39.768	31.646	-8.122	2.183
ASEB	212.357	212.082	273.497	260.938	-12.558	3.656
Manipur	48.009	48.043	49.519	41.286	-8.232	2.179
MeSEB	54.463	54.463	69.130	64.847	-4.283	1.420
Mizoram	25.520	25.519	27.802	23.003	-4.799	1.466
Nagaland	28.783	28.748	26.775	35.395	8.620	-2.448
Tripura	40.941	41.161	21.804	10.395	-11.409	3.607

(Source : UI A/c, NERPC)

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

States	Schedule From ISGS(MWH)	Bilateral Schedule from Outside NER (MWH)	Total Schedule (MWH)	Ex.PP. Drawal (MWH)	Tr. Energy (MWH)
Arunachal Pradesh	50022.91	2881.70	52904.61	32874.41	52904.61
ASEB	212293.48	96519.625000	308813.11	271068.53	308813.11
Manipur	47999.69		47999.69	42889.03	47999.69
MeSEB	54449.40	19053.125000	73502.53	67364.10	73502.53
Mizoram	25513.23		25513.23	23896.33	25513.23
Nagaland	28775.97	11821.75	40597.72	36769.50	40597.72
Tripura	40929.14		40929.14	10799.00	40929.14
Total	459983.82	130276.20	590260.02	485660.91	590260.02

ISGS	Schedule (MWH)	Injection (MWH)
LOKTAK	47659.51	47843.25
KHANDONG	4787.26	4461.49
KOPILI-I	19610.99	19481.02
KOPILI-II	6194.83	6209.19
DHEP	21929.05	22091.83
RHEP	186476.79	187091.68
AGTPP	53579.44	53956.73
AGBPP	119745.96	118855.07
Total	459983.82	459990.25

Source : Provisional REA for the month: Jun-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:- 24.06.2010

All figures in MW

HRS.	Total ISGS Injection (MW)	STATE SECTOR													ER	Total N.E.R GEN	Total Demand Met	Gross Demand met	Actual Loss	Total Drawal by States
		ASEB			MeSEB			Tripura			Manipur	Mizoram	Nagaland	ArPr						
		GEN	Drawal	Demand Met	GEN	Demand Met	Drawal	GEN	Demand Met	Drawal	DM	DM	DM	DM	IMPORT(+)/ EXPORT(-)					
1	702.19	270	452.14	722.6	31	145.5	115.01	79	110.4	31.14	82.49	18.86	42.82	43.19	114.40	1082.45	1165.91	1196.91	31.0	671.19
2	665.95	270	441.10	710.8	24	137.5	113.52	80	107.4	27.61	75.80	18.24	41.29	44.94	125.91	1039.52	1136.07	1165.50	29.4	636.53
3	554.61	270	409.18	678.9	0	88.1	88.13	79	104.6	25.25	44.49	17.40	40.89	41.62	133.51	903.77	1016.10	1037.33	21.2	533.38
4	669.18	270	399.27	669.8	0	90.5	90.49	79	102.7	23.50	34.27	16.95	40.72	44.85	4.95	1018.82	999.70	1023.83	24.1	645.05
5	669.49	259	356.99	616.5	0	121.6	121.59	79	91.1	12.04	29.87	19.60	48.21	45.85	-11.16	1008.01	972.66	996.91	24.3	645.24
6	783.46	259	332.69	592.2	0	138.9	138.91	79	78.5	-0.54	55.62	29.26	58.41	52.90	-95.45	1121.98	1005.77	1026.59	20.8	762.64
7	813.11	259	320.13	579.6	0	135.5	135.55	79	80.8	1.90	65.62	39.46	59.19	57.37	-99.85	1151.49	1017.60	1051.70	34.1	779.00
8	793.17	251	354.65	605.4	0	138.7	138.72	80	90.1	10.46	59.19	35.37	51.10	52.85	-63.74	1123.55	1032.72	1059.87	27.2	766.02
9	769.70	251	406.64	657.3	0	128.1	128.09	79	93.5	14.09	57.41	28.28	30.70	48.03	-45.89	1099.85	1043.40	1054.02	10.6	759.08
10	782.88	251	409.44	660.1	0	98.3	98.34	79	93.8	14.94	54.55	26.16	42.09	46.92	-61.52	1112.47	1022.02	1051.01	29.0	753.89
11	680.88	249	352.38	601.6	0	95.4	95.37	78	97.9	19.70	52.26	25.49	57.98	51.14	-9.13	1008.32	981.75	999.25	17.5	663.38
12	673.19	220	337.58	557.4	0	104.5	104.55	72	89.6	17.49	49.73	26.44	40.14	45.22	-23.71	965.11	913.07	941.46	28.4	644.80
13	672.23	178	361.67	539.7	0	102.9	102.91	72	89.3	17.70	49.35	26.50	27.14	50.05	-20.17	921.82	884.90	901.71	16.8	655.42
14	623.79	179	355.18	533.9	0	64.0	64.04	76	100.8	24.50	58.79	31.72	34.34	45.33	8.48	878.82	868.94	887.36	18.4	605.37
15	582.71	178	359.18	537.2	0	74.4	74.40	58	76.6	18.74	62.66	34.20	48.74	45.14	85.48	818.54	878.89	904.08	25.2	557.52
16	849.63	179	361.08	539.8	29	108.0	78.96	78	92.9	15.05	64.39	43.30	45.48	44.23	-169.62	1135.28	938.13	965.72	27.6	822.04
17	865.28	179	412.51	591.2	30	110.8	80.37	77	98.1	20.66	70.19	44.90	56.33	49.95	-82.91	1151.86	1021.47	1069.08	47.6	817.67
18	929.04	179	451.88	630.6	24	113.5	89.76	78	140.7	62.82	82.70	41.46	56.84	58.12	-43.92	1209.36	1123.90	1165.56	41.7	887.38
19	917.75	220	579.18	799.0	48	175.0	127.09	60	140.6	80.77	92.19	38.33	74.88	70.69	192.08	1245.33	1390.71	1437.53	46.8	870.93
20	961.64	219	623.40	842.4	54	160.3	105.84	78	140.8	63.11	88.86	45.20	74.28	68.54	137.00	1312.81	1420.40	1449.93	29.5	932.11
21	945.95	219	615.06	834.1	73	168.2	94.83	79	131.8	52.82	88.53	40.92	70.67	60.03	108.38	1317.31	1394.24	1425.81	31.6	914.38
22	950.82	229	601.15	830.4	73	156.8	83.42	79	143.1	63.69	83.25	36.72	57.78	54.77	67.57	1332.93	1362.88	1400.62	37.7	913.08
23	553.92	229	518.94	748.2	68	153.9	85.74	79	132.0	53.05	82.62	26.48	45.83	7.03	281.85	930.29	1196.07	1212.20	16.1	537.79
24	694.20	229	469.24	698.5	53	161.6	108.34	79	113.9	34.83	80.41	22.95	40.66	42.44	165.81	1055.77	1160.43	1221.65	61.2	632.99
Max	961.64	270	623.40	842.44	73	175.0	138.91	80	143.1	80.77	92.19	45.20	74.88	70.69	281.85	1332.93	1420.40	1449.93	61.2	932.11
Min	553.92	178	320.13	533.92	0	64.0	64.04	58	76.6	-0.54	29.87	16.95	27.14	7.03	-169.62	818.54	868.94	887.36	10.6	533.38

HOURLY DATA ON MINIMUM DEMAND MET DAY

DATE: 18.06.2010

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	461.62	261	592.4	331.21	61	179.7	118.46	80	26.92	107.19	79.04	24.41	34.17	40.94	218.90	864.3	1057.8	1083.22	25.4	436.19
2	459.00	259	636.1	377.09	5	129.2	124.22	80	22.20	102.05	61.33	22.44	32.33	40.44	234.02	802.8	1023.9	1036.91	13.0	445.96
3	458.98	259	618.4	359.42	5	88.2	83.17	79	19.78	99.22	27.38	18.89	31.42	39.52	131.33	802.4	923.0	933.79	10.8	448.19
4	448.07	261	608.3	347.16	5	93.4	88.42	79	14.53	93.65	24.96	18.01	32.01	43.65	135.32	793.4	914.0	928.74	14.7	433.36
5	448.34	259	567.8	308.87	5	105.4	100.40	80	5.45	85.02	23.30	20.76	32.24	43.85	100.28	791.9	878.4	892.23	13.8	434.54
6	449.80	259	538.4	279.39	28	128.9	100.40	79	-1.98	77.33	45.44	30.59	50.45	49.81	98.87	816.6	920.9	936.04	15.2	434.64
7	451.41	259	569.2	310.25	53	147.2	94.62	80	0.90	80.44	58.98	41.92	51.68	53.25	177.60	842.5	1002.7	1020.20	17.5	433.94
8	449.80	259	592.5	333.52	53	120.5	67.80	80	6.32	85.91	57.22	43.73	44.80	51.81	164.74	841.1	996.5	1005.91	9.4	440.41
9	448.67	259	564.8	305.78	53	117.3	64.47	80	9.73	89.33	56.77	35.76	36.06	50.52	119.72	840.0	950.4	959.83	9.4	439.29
10	462.05	259	570.0	311.03	59	125.1	66.04	80	8.99	88.96	48.80	33.21	28.86	43.01	102.46	860.0	937.9	962.56	24.6	437.42
11	478.54	259	589.1	330.11	28	90.9	62.82	79	14.17	93.53	54.63	34.13	34.13	37.44	109.18	845.0	933.9	954.24	20.4	458.18
12	474.02	259	584.5	325.52	28	97.4	69.09	76	25.77	101.40	51.58	34.14	35.41	44.62	129.21	836.9	949.0	966.16	17.1	456.87
13	473.91	258	588.4	330.16	34	97.7	63.36	55	28.82	83.67	59.16	34.59	35.07	48.10	140.71	821.4	946.7	962.14	15.4	458.49
14	475.42	258	548.2	289.96	35	95.2	59.90	55	22.85	77.44	59.07	31.29	37.73	46.16	88.22	823.6	895.1	911.85	16.7	458.68
15	493.74	259	552.3	293.30	29	90.4	61.46	55	21.95	76.71	57.66	36.73	35.80	38.75	62.82	836.5	888.4	899.34	11.0	482.77
16	526.87	258	555.6	297.40	29	101.5	72.74	54	30.68	84.97	68.70	45.00	40.43	44.04	91.61	868.2	940.3	959.89	19.6	507.32
17	638.41	258	592.4	334.20	29	111.4	82.69	54	39.32	93.66	64.00	45.55	45.40	52.10	48.29	979.7	1004.6	1028.13	23.6	614.85
18	743.50	258	687.2	429.00	29	111.0	82.34	55	48.19	102.75	87.70	47.68	65.44	54.57	100.67	1084.9	1156.4	1185.72	29.4	714.13
19	807.18	258	676.4	418.16	53	143.9	91.16	55	50.52	105.29	95.40	41.07	80.31	60.28	79.25	1172.9	1202.6	1252.30	49.7	757.52
20	825.53	258	654.2	396.66	78	172.4	94.09	55	49.73	104.48	76.64	48.31	78.32	70.54	6.14	1216.1	1204.9	1222.38	17.5	808.03
21	841.83	258	720.6	463.11	78	169.0	90.57	55	51.65	106.81	77.55	40.75	72.05	73.65	49.62	1232.9	1260.4	1282.63	22.2	819.59
22	689.58	258	657.6	400.04	79	161.2	82.61	60	28.28	87.92	80.30	36.99	61.72	63.91	89.31	1085.3	1149.6	1174.77	25.2	664.43
23	666.04	258	667.1	409.56	81	146.2	65.53	75	31.97	107.40	71.77	27.40	49.33	56.02	70.63	1079.7	1125.2	1150.37	25.1	640.90
24	504.50	258	614.5	356.23	65	151.6	86.16	75	40.92	116.18	74.91	25.91	42.89	49.26	199.60	903.4	1075.2	1103.09	27.9	476.60
Max	841.83	261	720.6	463.11	81	179.7	124.22	80	51.65	116.18	95.40	48.31	80.31	73.65	234.02	1232.9	1260.4	1282.63	49.7	819.59
Min	448.07	258	538.4	279.39	5	88.2	59.90	54	-1.98	76.71	23.30	18.01	28.86	37.44	6.14	791.9	878.4	892.23	9.4	433.36

ANNEXURES
&
EXHIBITS

Annexure-I

RESERVOIR PARTICULARS OF THE MONTH : **Jun-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	714.80	15.00	718.75	25.00
KOPILI	609.5 M	592.83 M	597.08	17.00	600.45	34.00
LOKTAK	768.5 M	766.2 M	768.30	200.00	768.93	250.00
BARAPANI	3220 Ft	3150 Ft	3164.62	6.20	3192.90	23.50
GUMTI	93.55 M	83.6 M	84.20	1.80	88.60	10.70
DOYANG	333 M	306 M	308.20	3.00	320.20	24.50

Annexure-II

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

Frequency	(Freq.in Hz)	(Time: H:M)	(Date:D.M.Y)
1. Maximum frequency	50.72	18:07	06.06.10
2. Minimum frequency	48.77	23:53	01.06.10
3. Monthly average	49.83		

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

f < 49.5	49.5 < f < 50.2	f >50.2
6.37	89.57	4.06

Daily Frequency Variation Index :

DATE	FVI	DATE	FVI
01-Jun-10	1.141	17-Jun-10	0.640
02-Jun-10	1.240	18-Jun-10	1.330
03-Jun-10	1.010	19-Jun-10	**1.880**
04-Jun-10	1.174	20-Jun-10	1.480
05-Jun-10	0.379	21-Jun-10	1.122
06-Jun-10	0.390	22-Jun-10	0.902
07-Jun-10	0.279	23-Jun-10	0.566
08-Jun-10	**0.243**	24-Jun-10	0.281
09-Jun-10	0.600	25-Jun-10	0.647
10-Jun-10	0.670	26-Jun-10	0.690
11-Jun-10	1.030	27-Jun-10	0.500
12-Jun-10	0.680	28-Jun-10	0.980
13-Jun-10	0.320	29-Jun-10	0.560
14-Jun-10	0.320	30-Jun-10	0.820
15-Jun-10	0.370	0-Jan-00	0.000
16-Jun-10	0.250	**Average FVI**	**0.750**

Annexure-III

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

Sl.No.	From	To	Energy (At Seller Injn. Point) (MWH)		Energy (At State Periphery) (MWH)
1	Tripura(Baramura)	Manipur	3312.000000		3193.202250
2	Tripura(Baramura)	Mizoram	3312.000000		3193.202250
3	ASEB	POWERGRID^	214.273950	^ The actual energy consumed by POWERGRID	
4	MeECL	APDCL (NVVN)	700.000000		672.800000
5	TSECL	MeECL (NVVN)	115.000000		111.080000

Scheduled Bilateral Exchange with SEBs / Organisations in other Regions

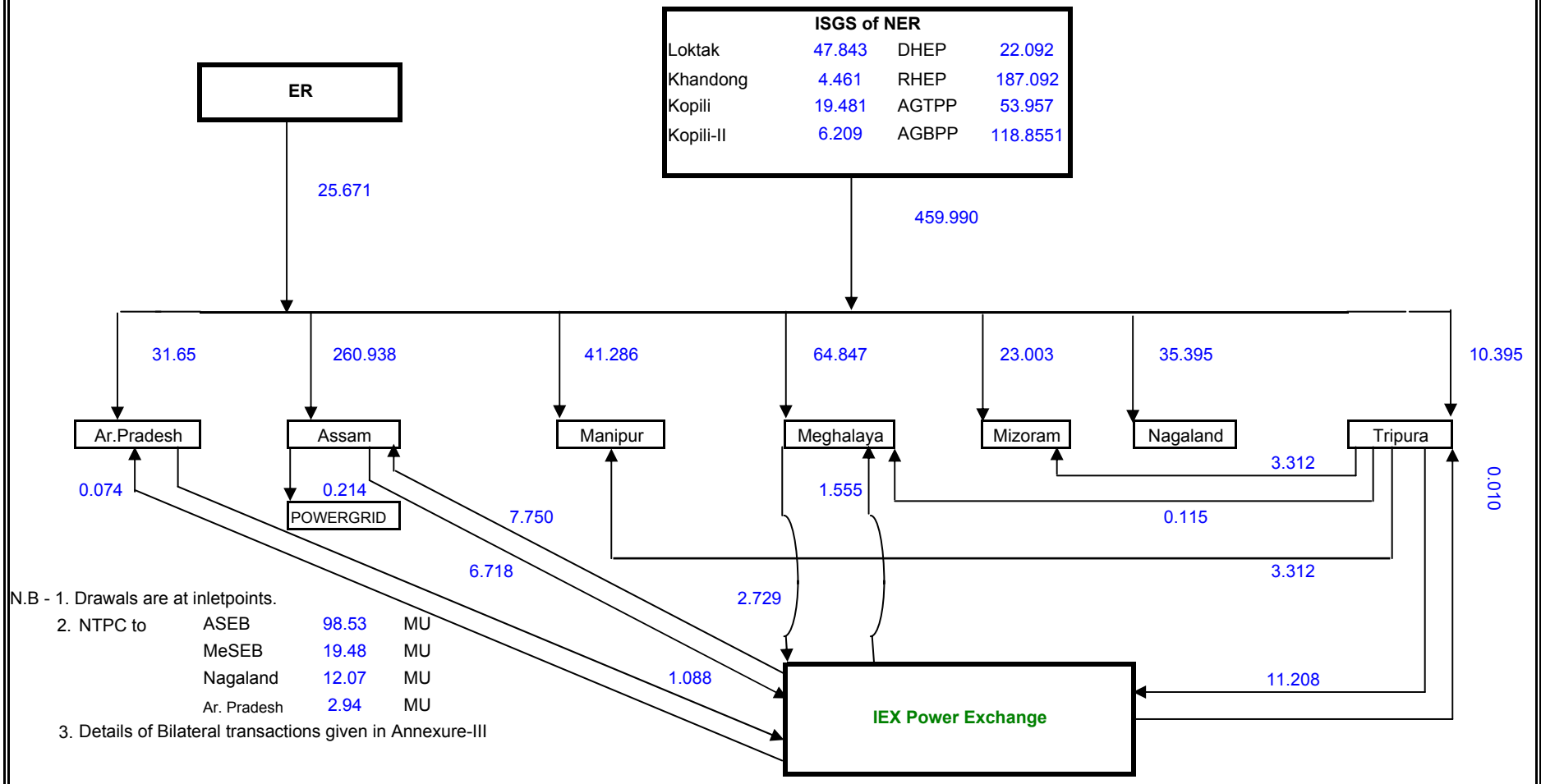
Sl.No.	From	To	Energy (At Seller Periphery) (MWH)	Energy (At NER-ER Periphery) (MWH)	Energy (At Buyer Periphery) (MWH)
1	Ar. Pradesh	BRPL (AP)	10181.150000	9828.165000	
2	Ar. Pradesh	BSES (AP)	125.000000	120.500000	
3	APDCL	APPCC (NVVN)	50.000000	48.450000	
4	APDCL	HPPC (NVVN)	26986.000000	26017.200000	
5	WBSEDCL	APDCL (NVVN)	1320.000000	1293.600000	1241.680000
6	Nag	BRPL (Nag)	12345.600000	11901.190000	
7	WBSEDCL	TSECL (NVVN)	37.500000	36.750000	35.575000
8	WBSEDCL	TSECL (NVVN)	15.000000	14.700000	14.230000
9	Farakka*	Ar. Pradesh	1412.270625	1376.750000	1327.360600
10	Kahalgaon 1*	Ar. Pradesh	630.423500	611.525000	589.651000
11	Talcher*	Ar. Pradesh	900.948000	893.425000	861.334500
12	Farakka*	Assam	41779.660875	40927.300000	39458.865150
13	Kahalgaon 1*	Assam	12500.722500	12242.825000	11805.006425
14	Kahalgaon 2*	Assam	25069.517000	24554.675000	23680.277250
15	Talcher*	Assam	19184.014500	18794.825000	18119.473050
16	Farakka*	MeECL	5460.779750	5343.825000	5152.087550
17	Kahalgaon 1*	MeECL	2611.754500	2554.725000	2463.346400
18	Kahalgaon 2*	MeECL	7927.120000	7747.425000	7471.545800
19	Talcher*	MeECL	3483.665600	3407.150000	3284.725300
20	Farakka*	Nagaland	5726.950375	5614.575000	5413.122500
21	Kahalgaon 1*	Nagaland	2692.800000	2632.250000	2538.139050
22	Talcher*	Nagaland	3645.776950	3574.925000	3446.436375

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

23	Arunachal Pradesh		-1088.000000	-1048.000000	
24	Arunachal Pradesh			77.400000	74.420000
25	Assam		-6718.320000	-6494.220000	
26	Assam			8058.470000	7750.430000
27	MeSEB		-2729.390000	-2637.770000	
28	MeSEB			1614.220000	1554.500000
29	Tripura		-11207.670000	-10813.060000	
30	Tripura			10.000000	9.640000

Annexure-IV

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



N.B - 1. Drawals are at inletpoints.

2. NTPC to

ASEB	98.53	MU
MeSEB	19.48	MU
Nagaland	12.07	MU
Ar. Pradesh	2.94	MU

3. Details of Bilateral transactions given in Annexure-III

Exhibit-I

Frequency Duration for June, 2010

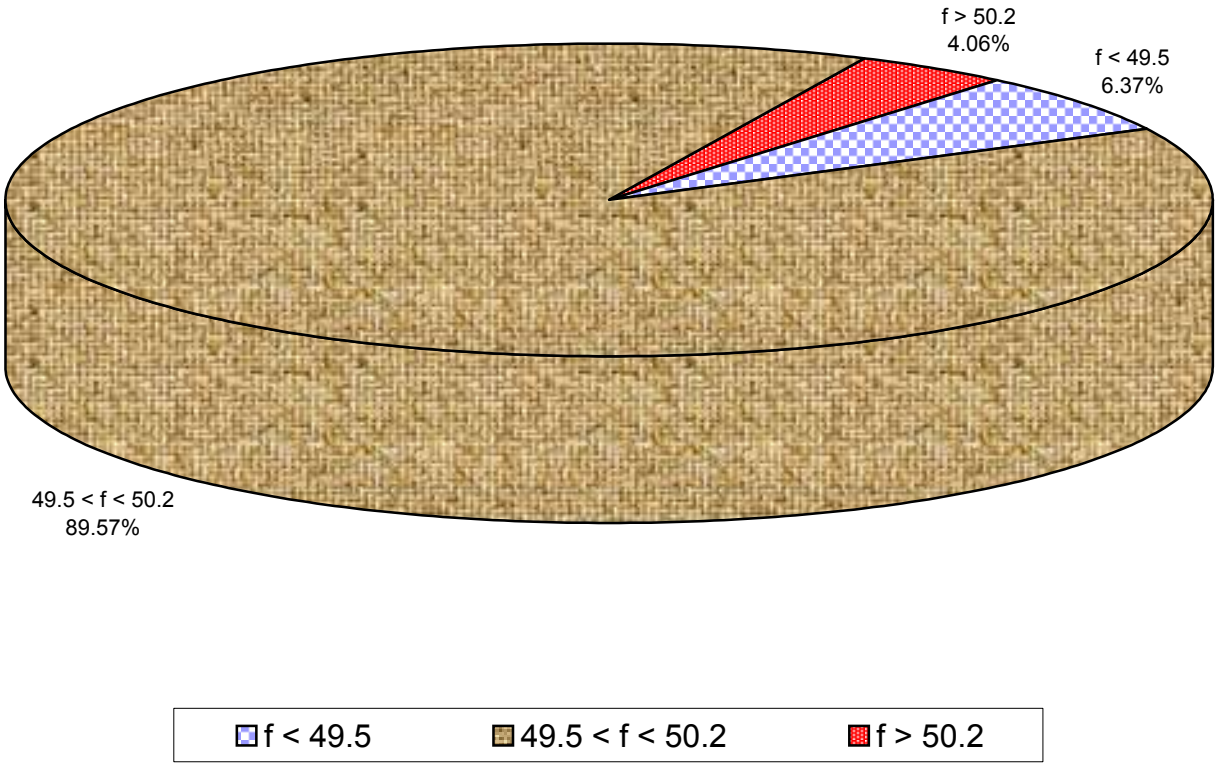


Exhibit-II

FVI Characteristics for June, 2010

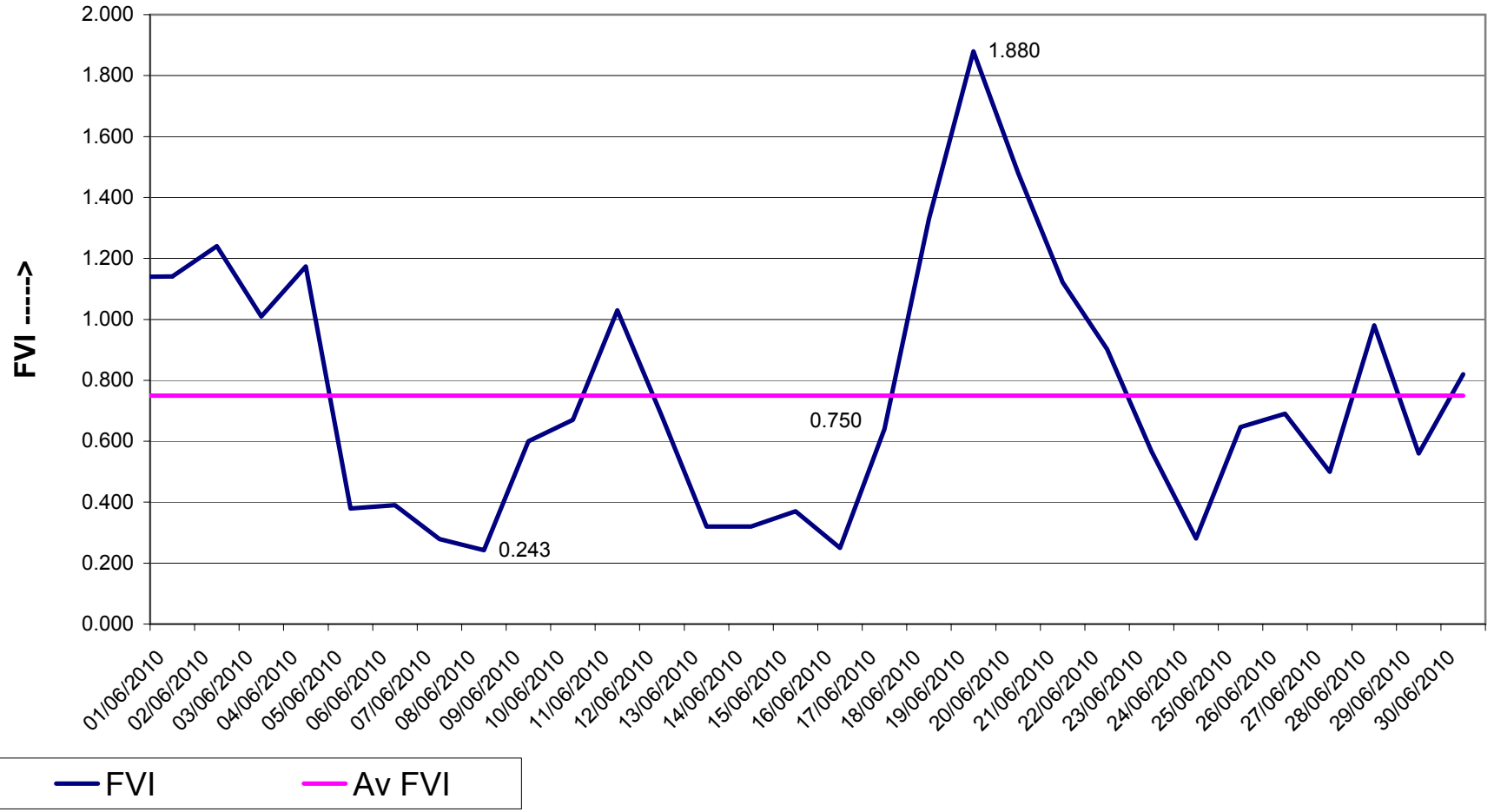


Exhibit-III

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

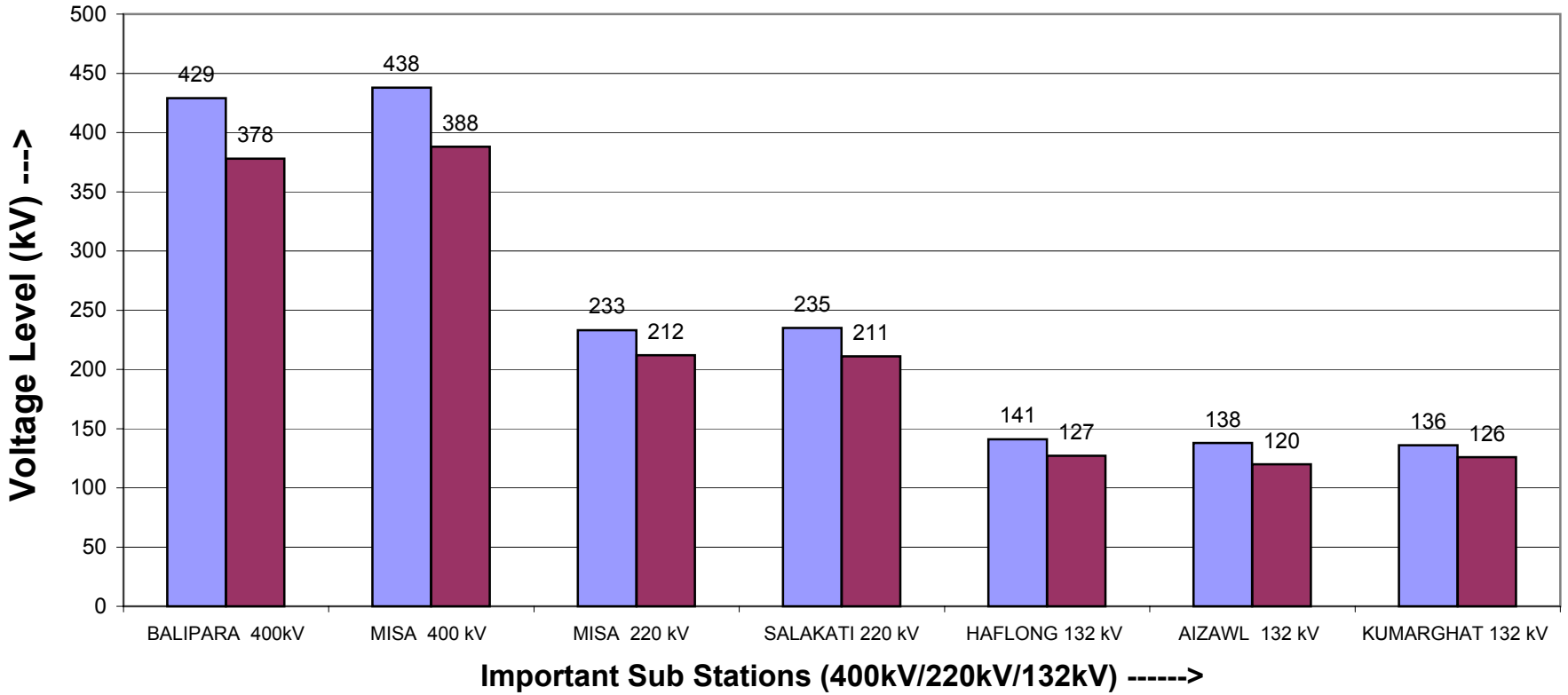


Exhibit-IV

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

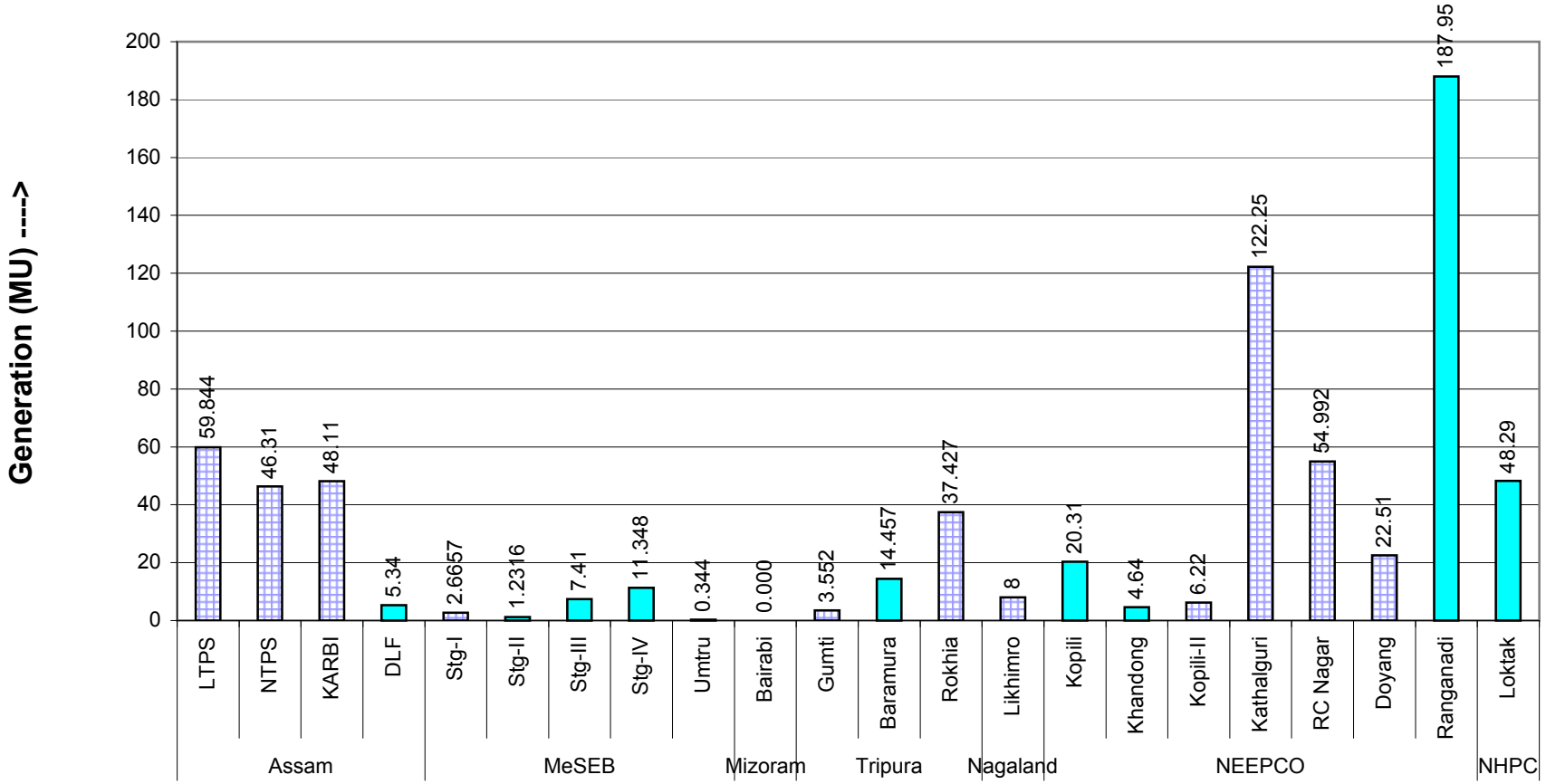


Exhibit-V

NER States Energy Scenario in June, 2010

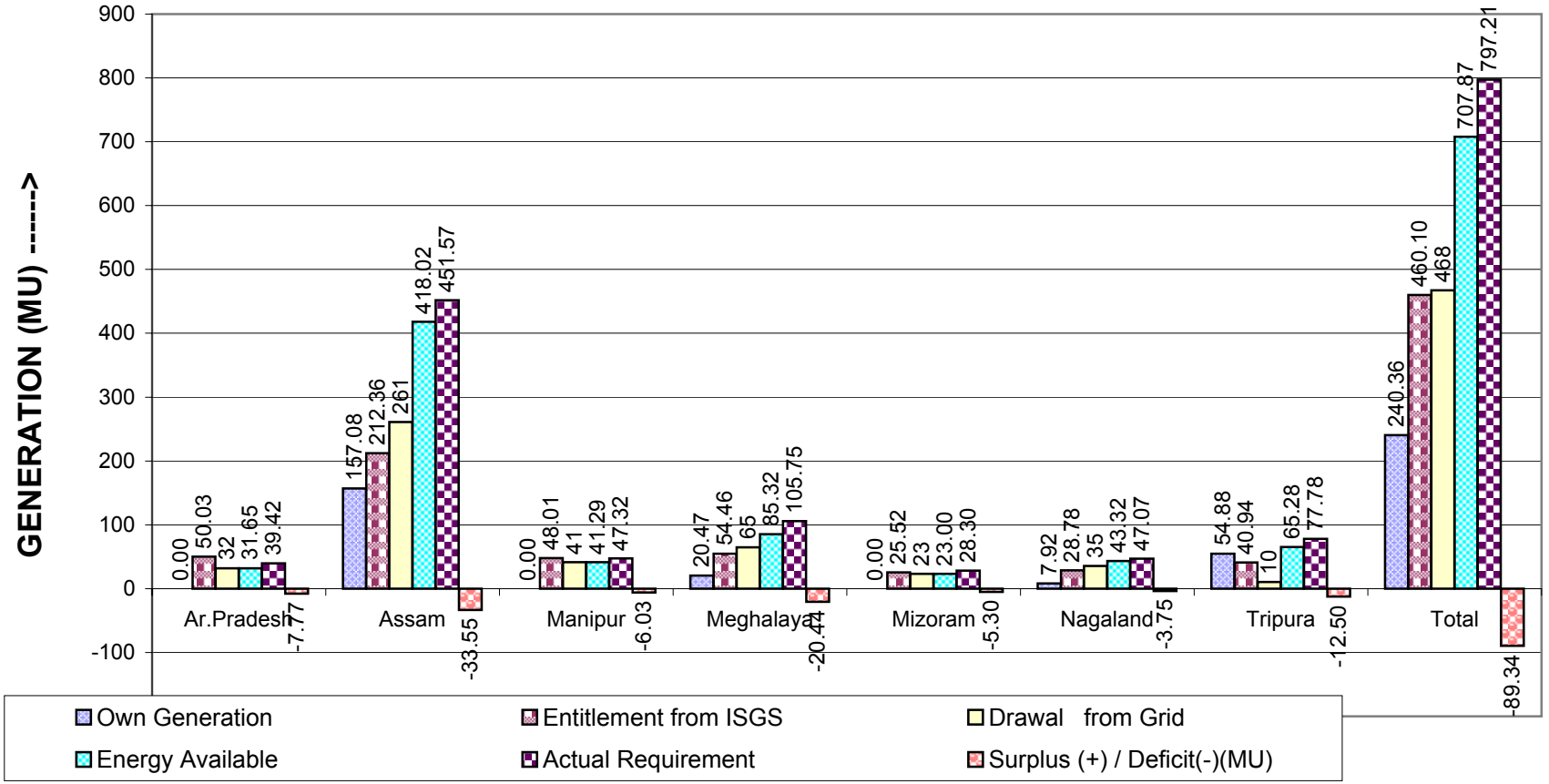


Exhibit-VI

Reservoir Statistics of NER in June, 2010