

**SPECIAL MEETING OF THE
NORTH EASTERN COUNCIL (NEC)
TO
REVIEW POWER SECTOR**

**KEY NOTE PRESENTATION
BY
SECRETARY, DONER**

**PASIGHAT
ARUNANCHAL PRADESH**

16-17 JAN, 2007

THE PLAYERS :

- **MINISTRY OF POWER (MOP)**
- **MINISTRY OF NEW AND RENEWABLE ENERGY (MNRE)**
- **STATE GOVTS.**
- **NORTH EASTERN COUNCIL (NEC)**
- **MINISTRY OF DEVPT. OF NORTH EAST REGION (DONER)**

THE SECTORS :

- GENERATION – HYDEL AND THERMAL
- TRANSMISSION & DISTRIBUTION (T & D)
- RURAL ELECTRIFICATION (RGGVY)
- NEW AND RENEWABLE ENERGY (NRE)

NER : GENERATION

THE POWER SCENARIO

- HYDRO POTENTIAL ESTIMATES ABOUT 60,000 MW (ONLY 7% TAPPED SO FAR)
- GAS, COAL AND URANIUM DEPOSITS NOT FULLY EXPLOITED
- THERMAL – GAS, COAL & HFO BASED PLANTS
- BEGINNING OF XTH PLAN
 - TOTAL INSTALLED CAPACITY : 2,338.20 MW
- PLANNING COMMISSION TARGET (XTH PLAN) : 1,527.92 MW
- AS ON 31.10.06 TOTAL INSTALLED CAPACITY : 2,520.30 MW
- PEAK SHORTAGE : 242 MW APPROX
- ENERGY SHORTAGE : 546 MU
- ESTIMATED (2006-07) DEMAND BY 2011-12: 2,620 MW

NER : GENERATION**STATEWISE TARGET AND ACHIEVEMENT DURING 10TH PLAN**

S.NO.	STATE/CENTRAL SECTOR	GENERATION CAPACITY ADDITION (MW)			
		TARGET	ACHIEVEMENT		
			FROM 2002-03 TO 31.10.2006	EXPECTED FROM 1.11.2006 TO 31.03.2007	TOTAL
1	ASSAM	138.00	-	100.00	100.00
2	MANIPUR	18.00	18.00	-	18.00
3	MEGHALAYA	132.00	-	-	-
4	MIZORAM	102.92	22.92	-	22.92
5	TRIPURA	42.00	42.00	-	42.00
6	ARUNACHAL PRADESH	-	-	-	-
7	NAGALAND	-	-	-	-
A	STATE SECTOR	432.92	103.92	100.00	203.92
B	CENTRAL SECTOR	585.00	25.00	-	25.00
C	TOTAL NER	1017.92	128.92	100.00	228.92

NER : GENERATION**MAJOR CENTRAL SECTOR POWER GENERATION PROJECTS**

- KOPILI STAGE II EXTENSION HEP (ASSAM) : 25 MW
- KAMENG HEP (ARUNACHAL) : 600 MW
- SUBANSIRI LOWER (ARUNACHAL) : 2000 MW
- LOKTAK DOWNSTREAM : 90 MW
- TUIRIAL HEP (MIZORAM) : 2 X 30 MW
- TEESTA V HEP (SIKKIM) : 510 MW
- TRIPURA GT (MONARCHAK) : 280 MW
- PALATANA GT (TRIPURA) : 750 MW
- MONARCHAK GT (TRIPURA) : 280 MW

NER : GENERATION

CONTRIBUTION BY DONER AND NEC

DONER CONTRIBUTION :

1. LEIMAKHONG HFO (MN)	36 MW	-	117.61 CRORES
2. BAIRABI HFO (MZ)	23 MW	-	91.58 CRORES
3. DIMAPUR HFO (NL)	23 MW	-	32.00 CRORES
4. LIKIMRO HEP (NL)	24 MW	-	37.01 CRORES
5. ROKHIA(VIII) GT (TR)	21 MW	-	76.26 CRORES
6. ROKHIA PHASE-2 (TR)	21 MW	-	85.17 CRORES
TOTAL		-	439.63 CRORES

NEC CONTRIBUTION :

1. RANGANADI HEP (AP)	405 MW	-	1455.45 CRORES
2. KOPILI HEP (AM)	150 MW	-	243.82 CRORES
3. DOYANG HEP (NL)	75 MW	-	758.70 CRORES
4. BARAMURA GT (TR)	6.5 MW	-	14.80 CRORES
5. BARAMURA GT (TR)	21 MW	-	95.36 CRORES
6. ROKHIA GT (TR)	16 MW	-	85.45 CRORES
TOTAL			2653.58 CRORES

NER : GENERATION

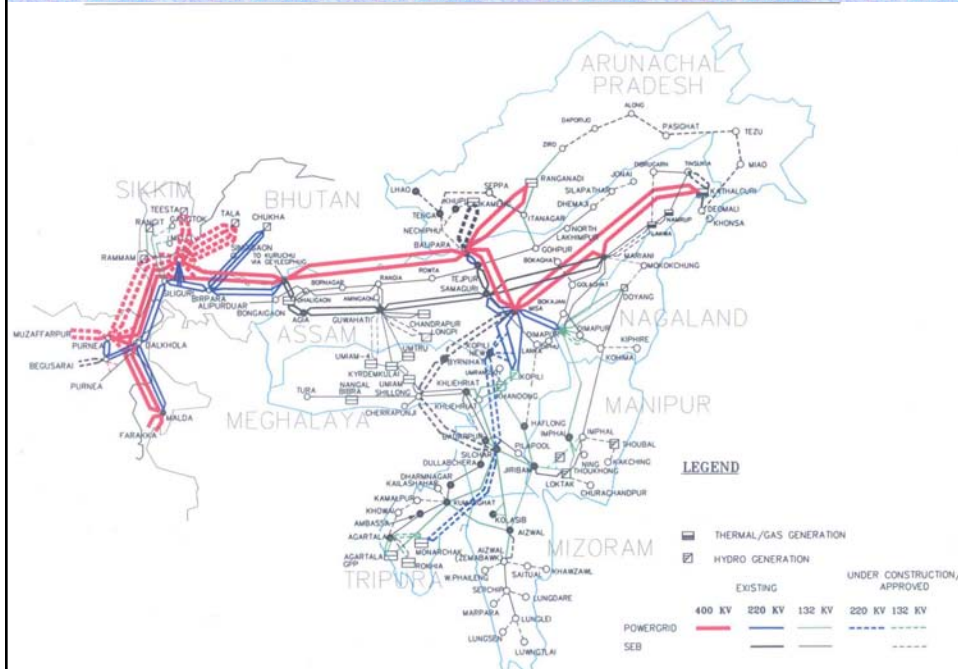
- PROJECTS NEED TO BE EXPEDITED.
- BALANCE BETWEEN HYDRO & THERMAL REQUIRED TO OVERCOME PEAK SHORTAGES.
- NEED FOR TRANSFERRING POWER FROM BASE LOAD THERMAL STATIONS IN EASTERN REGION TO NER (JAN TO MAY).
- IT IS ASSESSED THAT SOME POWER PROJECTS IN NER ARE NOT VIABLE. VIABILITY GAP FUNDING NECESSARY.

NER : T & D

TRANSMISSION & DISTRIBUTION ISSUES

- INADEQUATE REGIONAL TRANSMISSION & DISTRIBUTION GRID.
- FOUR NE STATES CONNECTED BY ONLY 132 KV LINES – MEGHALAYA, MANIPUR, MIZORAM & SIKKIM.
- 200 KV TRANSMISSION LINES COMMISSIONED BY PGCIL IN 1994 AND 400 KV LINE IN 2000.
- PGCIL ACTIVITIES RESTRICTED TO TRANSMISSION – SUB-TRANSMISSION AND DISTRIBUTION LEFT TO STATES.
- INADEQUATE INVESTMENTS BY PGCIL DUE TO COMMERCIAL CONSIDERATIONS
- STATES DEPENDING ON DONER & NEC FOR FUNDING SUB-TRANSMISSION & DISTRIBUTION SYSTEM.
- HIGH WHEELING CHARGES @ 35 PAISE/UNIT.

POWER MAP OF NORTH EASTERN REGION AND SIKKIM



NER : T & D

NEC CONTRIBUTION

TRANSMISSION LINE	: RS. 448.44 CRORES
OTHER MISC. SUBSTATIONS, MICRO HYDEL, RURAL ELECTRIFICATION, ETC.	: RS. 33.10 CRORES

DONER CONTRIBUTION

TRANSMISSION LINE	: RS. 642.96 CRORES
OTHER MISC. SUBSTATIONS, MICRO HYDEL, RURAL ELECTRIFICATION, ETC.	: RS. 216.97 CRORES

NER : T & D

- INVESTMENTS IN TRANSMISSION AND SUB-TRANSMISSION HAVE NOT MATCHED GROWTH IN GENERATION.
- INADEQUATE DEVELOPMENT OF SUB-TRANSMISSION AND DISTRIBUTION SYSTEM FACILITIES ADVERSLY AFFECTING RELIABILITY OF POWER SUPPLY.
- PER UNIT COSTS HIGH.
- NEED FOR A NEW CSS FOR ASSISTING STATES TO IMPLEMENT SUB-TRANSMISSION & DISTRIBUTION SYSTEMS.

NER: RURAL ELECTRIFICATION (RGGVY)

- TOTAL 40,377 INHABITED VILLAGES (2001 CENSUS) IN NORTH EAST, 25,248 (62%) VILLAGES ELECTRIFIED BY OCTOBER 2006.
- RAJIV GANDHI GRAMEEN VIDYUTIKARAN YOJANA (RGGVY) INTRODUCED IN APRIL, 2005 AIMS TO PROVIDE ELECTRICITY TO ALL VILLAGES/ HABITATIONS AND RURAL HOUSEHOLDS WITHIN 5 YEARS.
- 90% SUBSIDY TOWARDS CAPITAL EXPENDITURE THROUGH THE NODAL AGENCY (REC).
- 100% CAPITAL SUSIDY FOR ELECTRIFICATION OF UN-ELECTRIFIED BPL HOUSEHOLDS @ RS. 1500/CONNECTION.
- TARGET (2006-07): 190 VILLAGES -- ACHIEVEMENT - NIL.
- DPR PREPARATION/ APPROVAL AT DIFFERENT STAGES.
- REC ROLE IS CRUCIAL.
- CAPACITIES IN MOST STATES NEED TO BE ENHANCED.

NER: NEW AND RENEWABLE ENERGY (NRE)

INSTALLED CAPACITY (AS ON 31.10.06)

MNRE TOTAL : 56.0 MW

STATES

ASSAM : 0.2 MW

ARUNACHAL PRADESH : 26.0 MW

MANIPUR : 4.0 MW

MEGHALAYA : 1.5 MW

MIZORAM : 10.9 MW

NAGALAND : 3.2 MW

SIKKIM : 9.1 MW

TRIPURA : 1.1 MW

NER: NRE

- IDEAL FOR PROVIDING POWER TO SMALL AND REMOTE HAMLETS IN NER
- AS PER MNRE POTENTIAL FROM NON-CONVENTIONAL ENERGY SOURCES IS 2230 MW - 124 MW COMMISSIONED -150 MW UNDER INSTALLATION
- STATES TO UTILISE MNRE SCHEMES

NER: POWER DEVT. - CONCLUSIONS

- MAJOR ROLE OF MINISTRY OF POWER, ITS AGENCIES AND STATE GOVTS.
- DONER AND NEC CAN SUPPLEMENT
- RGGVY – STATES NEED TO BE ASSISTED
- MNRE – STATES TO TAKE ADVANTAGE OF SCHEMES

NER :

**MORE FROM MINISTRY OF POWER AND
MNRES**



