

# Telecommunications in North East India

Department of Telecommunications

3<sup>rd</sup> February, 2014

# Telecommunication services in North East India

## Teledensity

	<b>Rural Teledensity</b> (as on Nov 2014)	<b>Urban Teledensity</b> (as on Nov 2014)	<b>Overall Teledensity</b> (as on Nov 2014)
<b>Assam Service Area</b>	<b>32.77</b>	<b>129.28</b>	<b>47.49</b>
<b>North East Service Area</b>	<b>42.11</b>	<b>159.80</b>	<b>71.12</b>
<b>All India</b>	<b>42.48</b>	<b>144.14</b>	<b>73.69</b>

## Telecom – Mobile Coverage (NE-I, II & Assam)

State	DHQs		SDHQs		Villages		
	Total	Uncovered	Total	Uncovered	Total Inhabited (Census2011)	Uncovered	% uncovered Villages
Tripura	8	0	40	0	889	2	0.22%
Sikkim	4	0	9	0	426	23	5.40%
Nagaland	11	0	114	4	1,407	137	9.74%
Assam	27	0	153	0	25,496	2,885	11.32%
Manipur	9	0	38	1	2,547	610	23.95%
Mizoram	8	0	26	0	704	258	36.65%
Meghalaya	11	0	39	0	6,471	2,389	36.92%
Arunachal Pradesh	16	0	188	70	5,260	2,886	54.87%
<b>TOTAL</b>	<b>94</b>	<b>0</b>	<b>607</b>	<b>75</b>	<b>43,200</b>	<b>9,190</b>	<b>21.27%</b>

- All DHQs covered; except Arunachal Pradesh – SDHQs almost fully covered in all other States.
- Need to provide mobile connectivity to still uncovered villages.

# Enhancing telecom services within North-East.

- Comprehensive Telecom Development Plan for NE as per TRAI recommendations approved by Telecom Commission (to be implemented in 12<sup>th</sup> Plan) with investment plan of Rs.2,320.70 crore. It includes
  - Mobile coverage of all uncovered SDHQs and uncovered villages.
  - Mobile coverage to all uncovered portions along National Highways.
  - Augmenting bandwidth capacity to meet future requirements upto district headquarters.
  - Covering all DHQs with OFC ring or satellite media where OFC ring is infeasible to increase reliability of connectivity.

## Enhancing telecom services within North-East.

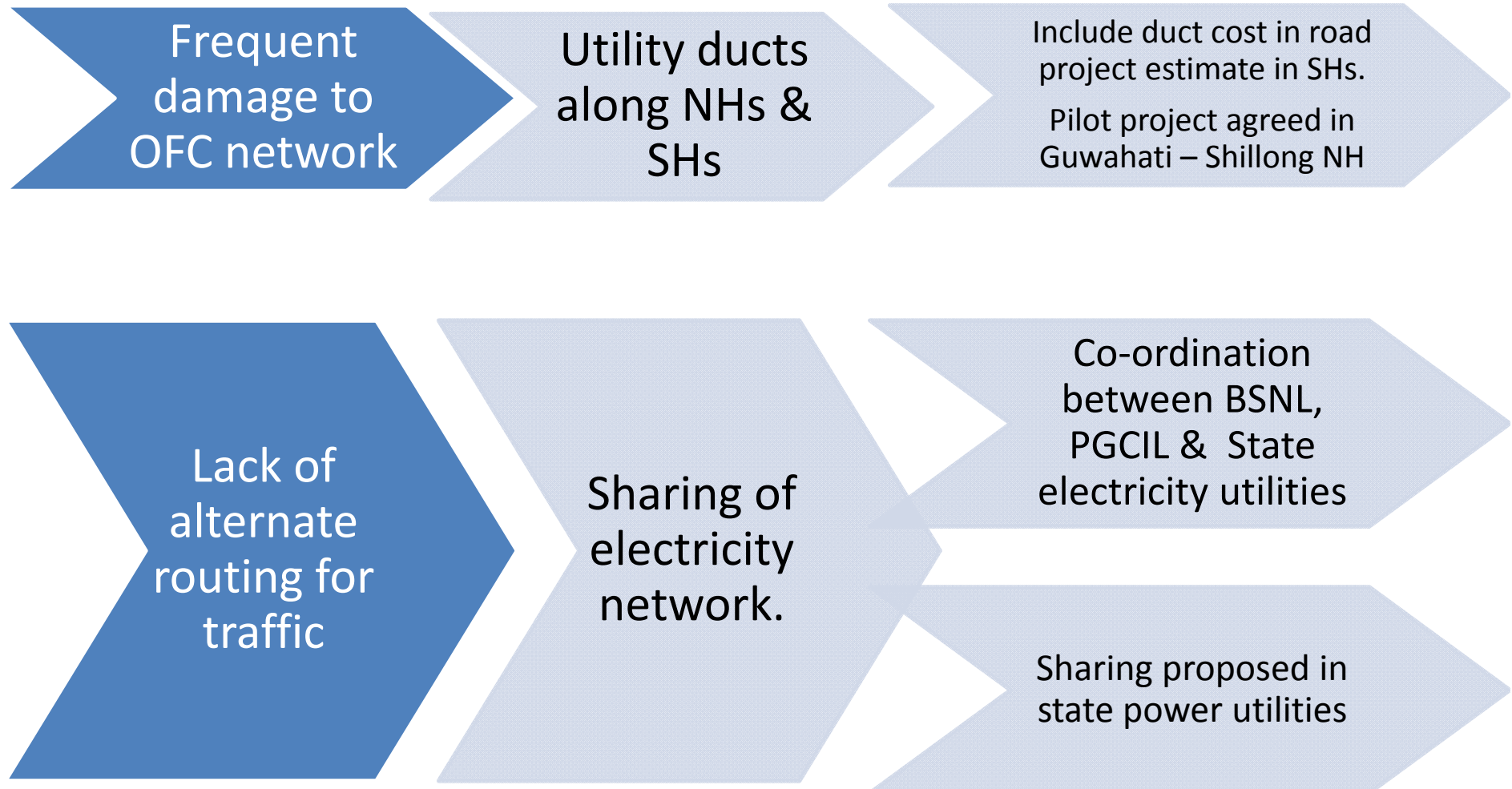
- Complete expeditiously OFC connectivity from District to Block (USOF) (targeted for completion by December 2014) and from Block to Panchayat/Village Council (NOFN) (targeted for completion by September 2015).
- Comprehensive telecom development plan and OFC connectivity plan to provide coverage for voice and broadband services to every inhabited village and Village Council/Panchayat respectively.
- Village Public Telephones (VPTs) including DSPTs to be provided in balance villages by March 2014.

# Enhancing connectivity of North-East with rest of India.

- Provision of international internet bandwidth to North-East through Bangladesh and alternate telecom routing to North-East through Bangladesh being considered with intervention of MEA.
- Covering remote, border areas through microwave network and satellite media – Proposal; for waiver of Satellite bandwidth charges for viability of Service provided in Arunachal Pradesh and Sikkim.

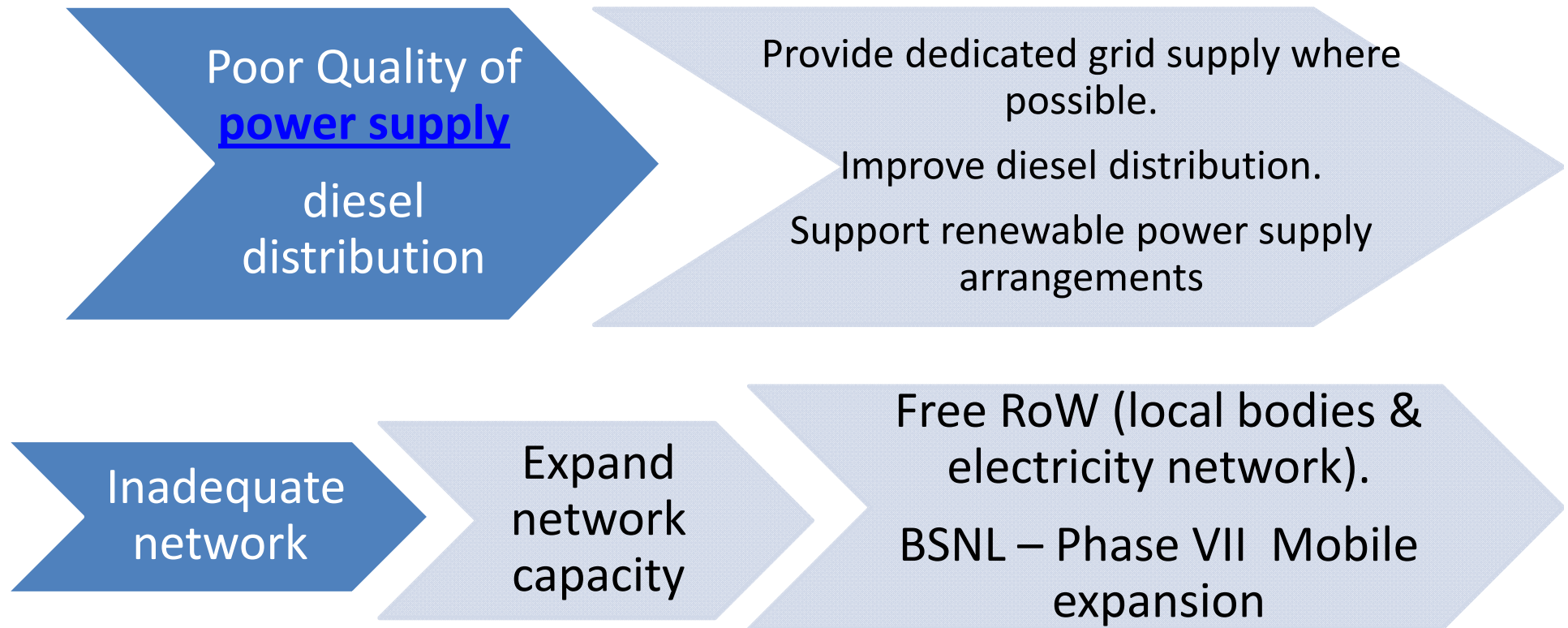
# Telecommunications in North-East India

## Reliability & Quality: Issues



# Telecommunications in North-East India

## Reliability & Quality: Issues





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## Assistance sought from State Governments

- Establish co-ordination mechanism for road expansion works to prevent damage to Optical Fibre (OF) network.
- Provision of free Right-of-Way (RoW) along State Highways/District Roads and by Local Bodies and Village Councils.
- Creation of optical fibre infrastructure along EHV transmission lines.
- Provision of free RoW on electricity distribution poles for OF cable to villages.

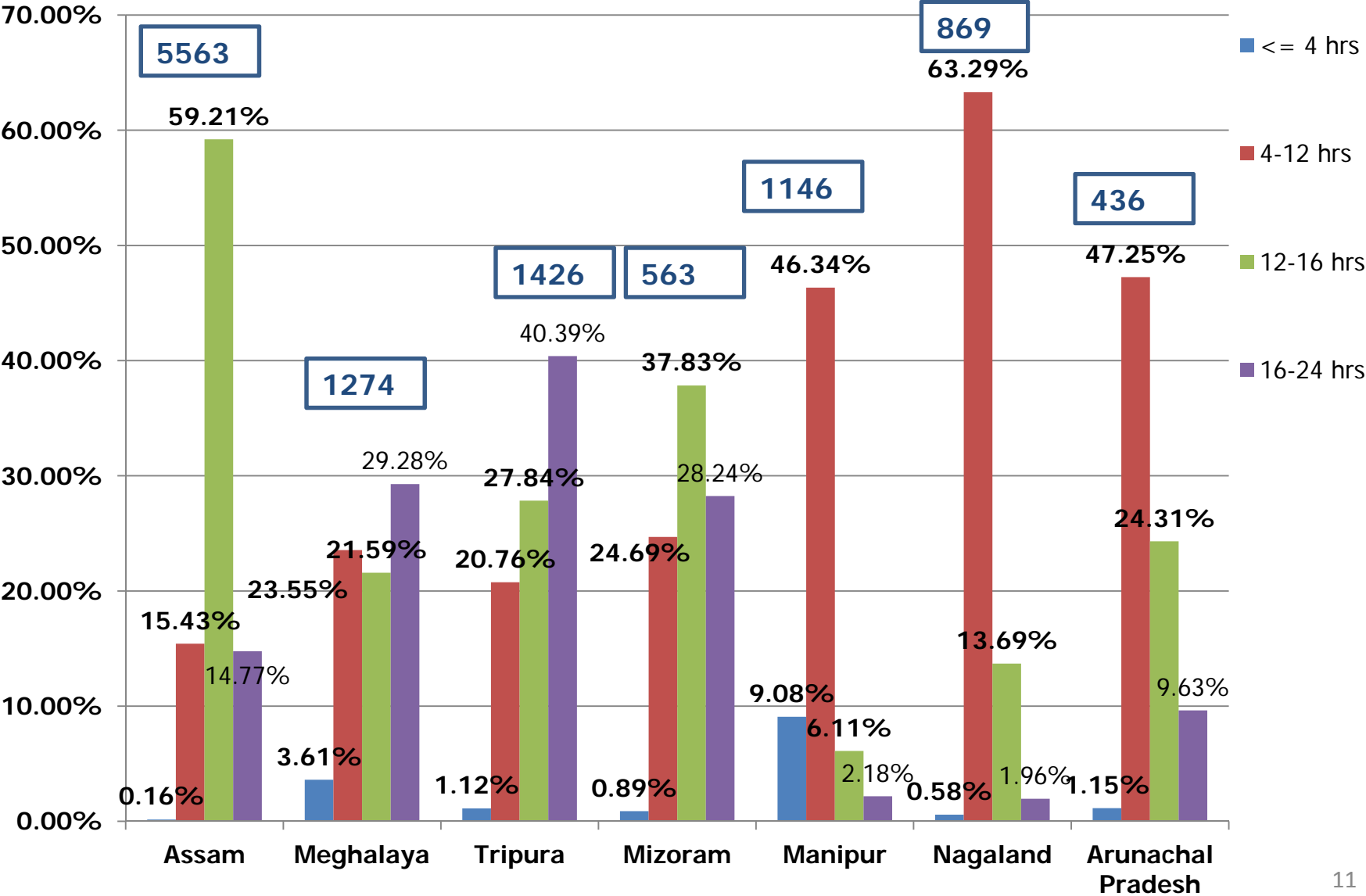
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## Village Public Telephones (VPTs)

<b>S. No.</b>	<b>State</b>	<b>Inhabited Villages</b>	<b>Villages with VPTs</b>	<b>Villages without VPTs</b>
1.	<b>Tripura</b>	858	858	0
2.	<b>Mizoram</b>	707	704	3
3.	<b>Nagaland</b>	1,278	1,263	15
4.	<b>Sikkim</b>	450	429	21
5.	<b>Manipur</b>	2,315	2,171	144
6.	<b>Assam</b>	25,124	25,107	17
7.	<b>Meghalaya</b>	5,782	5,247	535
8.	<b>Arunachal Pradesh</b>	3,863	2,774	1089
	<b>Total</b>	40,377	38,553	1,824

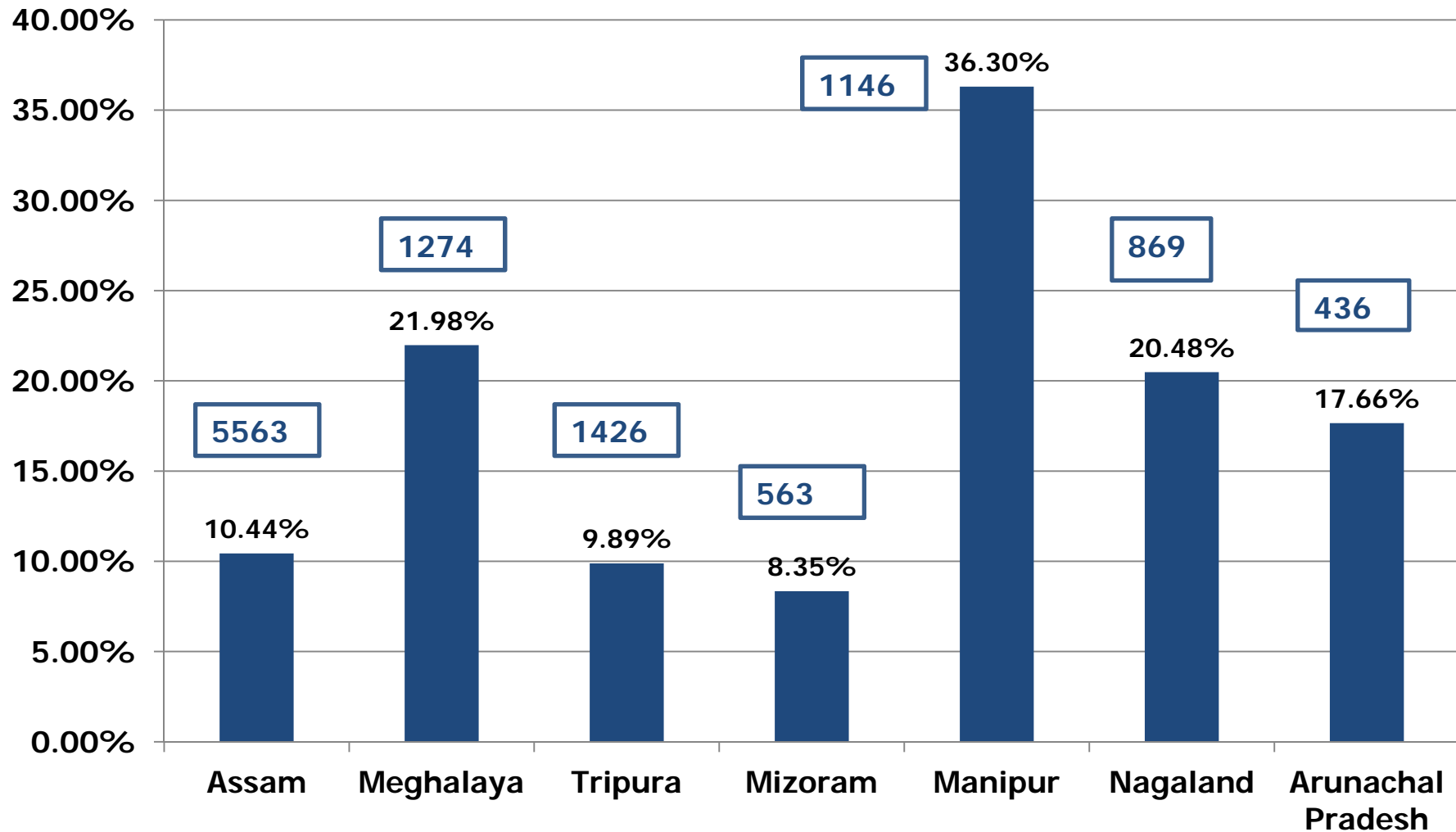
# Telecommunications in North-East India

## Power supply to Mobile Towers



# Telecommunications in North-East India

## Mobile Towers without electricity



Thanks