



Prayas (Energy Group)

Electricity Supply Monitoring Initiative (ESMI)

Watch Your Power Quality

www.watchyourpower.org

Summary Analysis - February 2017

Electricity Supply Monitoring Initiative (ESMI) is a program being implemented by Prayas (Energy Group). It aims to improve transparency and provide evidence based feedback about the quality of electricity supply. Under ESMI, specially designed, mobile data enabled monitors are being deployed at each location and supply quality data is published daily at [watchyourpower.org](http://www.watchyourpower.org). ESMI was selected as a finalist for Google Impact Challenge, India, 2013, given to NGOs using technology for social impact. It was launched in March 2015 and currently covers over 50 districts across India.

This report presents a summary analysis of supply quality data from 206 locations (51 Rural and 155 Urban) for February 2017. This analysis covers three main parameters of supply quality: i) no supply hours, ii) number of interruptions, and, iii) evening hours of supply. The analysis is carried out for mega cities, other cities and rural areas. See notes at the end for more details and explanation.

In February 2017

39%

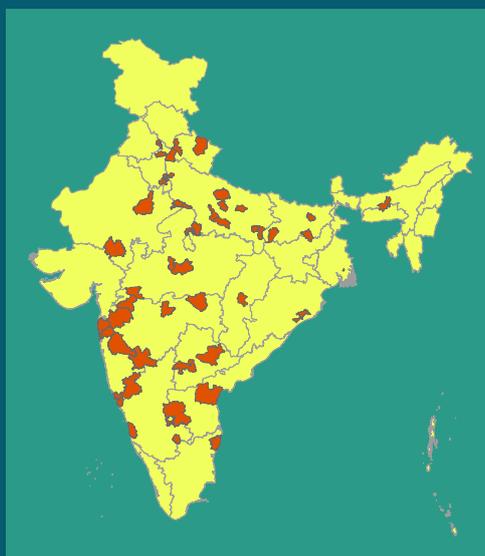
ESMI locations experienced outages for more than 15 hours

20%

ESMI locations experienced more than 30 interruptions each greater than 15 min

15%

ESMI locations experienced average 30 min of outage during evening hours



Map showing current ESMI expanse at district level

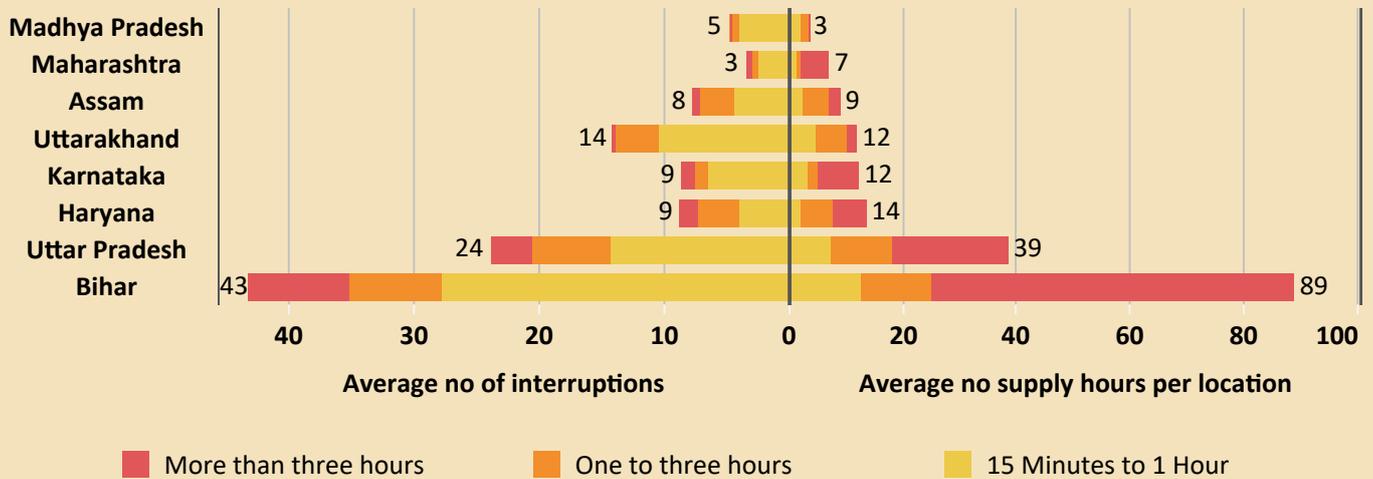
Supply Quality in Mega Cities - February 2017

Average number of interruptions per location

Megacity	ESMI locations	Short - 15 Minutes to 1 Hour	Long - 1 hour and more	Average no supply hours per location
Chandigarh	5	2	0	1
Delhi	5	1	1	1
Nagpur	4	2	1	2
Pune	6	3	1	4
Hyderabad	8	5	1	5
Jaipur	6	2	2	4
Kanpur	8	6	2	8
Bengaluru	8	7	5	14

ID: AVGMCI170201

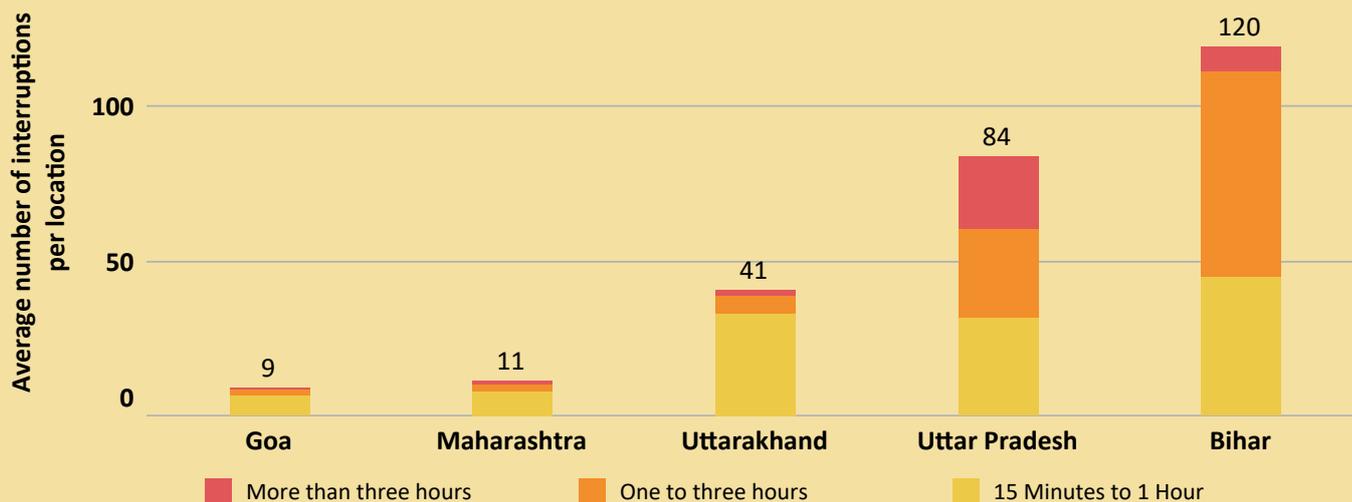
Supply Quality in Other Cities - February 2017



State	Towns covered	ESMI locations
Madhya Pradesh	2	4
Maharashtra	11	23
Assam	1	10
Uttarakhand	4	7
Karnataka	3	9
Haryana	2	4
Uttar Pradesh	8	23
Bihar	3	5

ID: AVGOMCI170202

Supply Quality in Rural Areas - February 2017



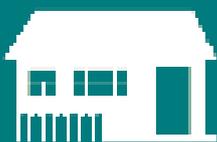
	Goa	Maharashtra	Uttarakhand	Uttar Pradesh	Bihar
ESMI locations	5	9	4	20	4
Average no supply hours per location	8	15	36	205	211

ID: AVGGP170203

ESMI Locations Receiving Entire Six Hours Of Evening Supply



86%
Mega Cities



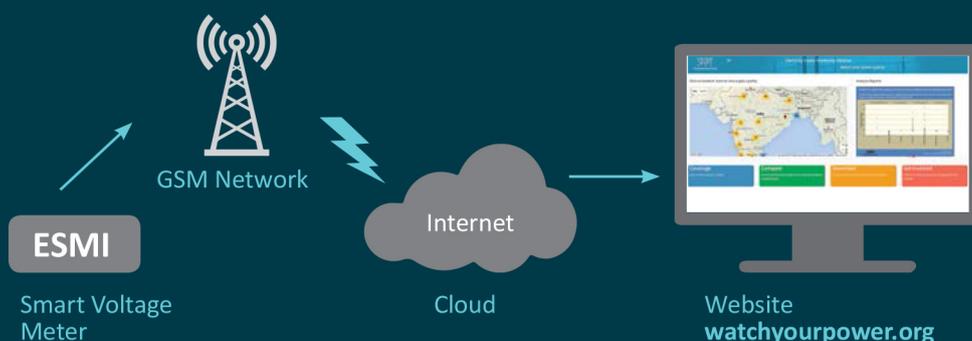
57%
Other Cities



22%
Rural Areas

Evening supply hours considered is between 5 p.m. to 11 p.m. and this analysis ignores upto 2 hours of total evening supply interruptions during the month.

ID: AVGEHS170204



Electricity Supply Monitoring Initiative

www.watchyourpower.org
esmi@prayaspune.org

Notes:

- Analysis in this report covers locations with more than 90% data availability during the month
- Urban locations are State Capitals, District Headquarters and Other Municipal Areas.
- Mega Cities are urban locations as defined by Central Electricity Authority (typically with population more than 20 lakh)
- Other cities are urban locations that are not mega cities
- Rural areas are those governed by Gram Panchayats (village councils)
- Agricultural locations covered under ESMI are excluded from this analysis
- Analysis, except evening hours of supply, consider interruptions of more than 15 minutes.



Prayas (Energy Group)

www.prayaspune.org/peg