



Prayas (Energy Group)

# Electricity Supply Monitoring Initiative (ESMI)

Watch Your Power Quality

[www.watchyourpower.org](http://www.watchyourpower.org)

## Summary Analysis - November 2015

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://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 116 locations (34 rural and 82 urban) for November 2015. 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 November 2015

51%

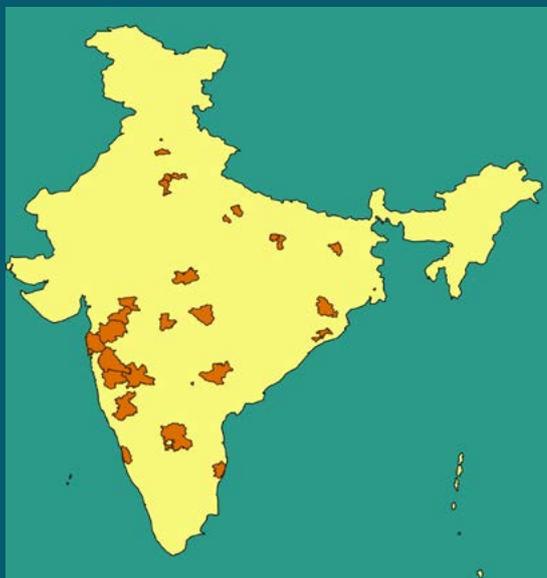
ESMI locations faced more than 4 hours of power outage per week

26%

ESMI Locations faced more than 30 power supply interruptions

19%

ESMI locations faced daily power outage of more than half an hour during evening hours



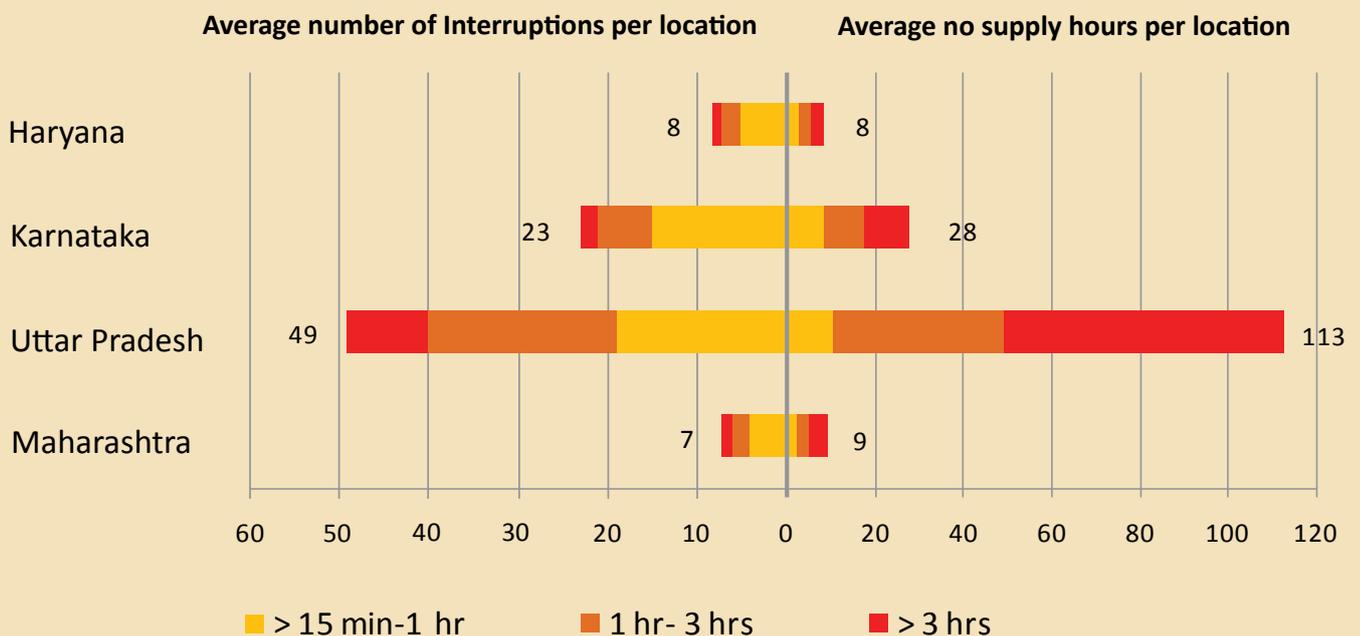
Map showing current ESMI Expanse at district level

## Supply Quality in Mega Cities - November 2015

Mega City	ESMI locations	Average number of interruptions per location		Average no supply hours per location
		Short 15 min-1 hour	Long More than 1 hr	
Chandigarh	5	1	2	1.5
Delhi	6	3	2	3
Pune	4	3	3	7
Nagpur	6	4	3	8
Hyderabad	5	4	3	10
Bengaluru	6	13	8	18
Kanpur	7	10	8	21

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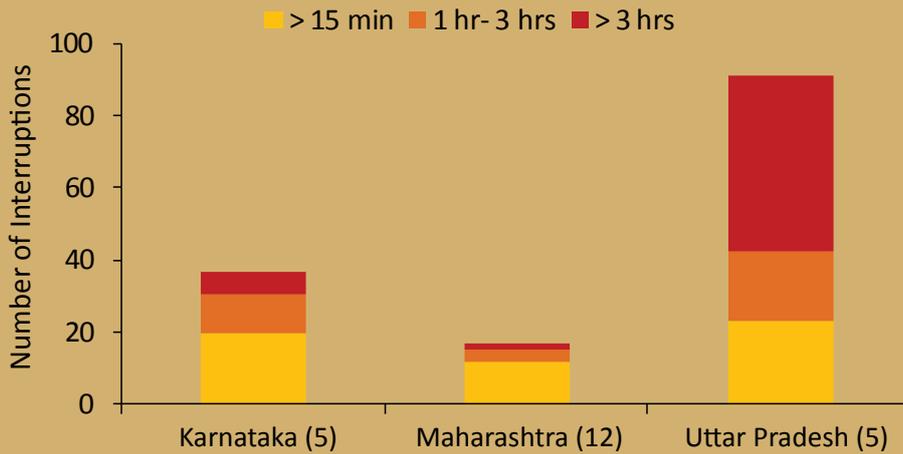
## Supply Quality in Other Cities - November 2015



States	Cities covered	ESMI locations
Haryana	2	5
Karnataka	2	5
Uttar Pradesh	4	15
Maharashtra	6	25

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# Supply Quality in Rural Areas - November 2015



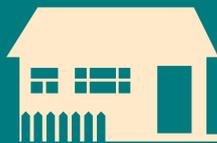
November 2015	Karnataka	Maharashtra	Uttar Pradesh
ESMI locations	5	12	5
Average no supply hours	85	20	360

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## ESMI Locations Receiving Entire Six Hours Of Evening Supply



**65%**  
Mega Cities



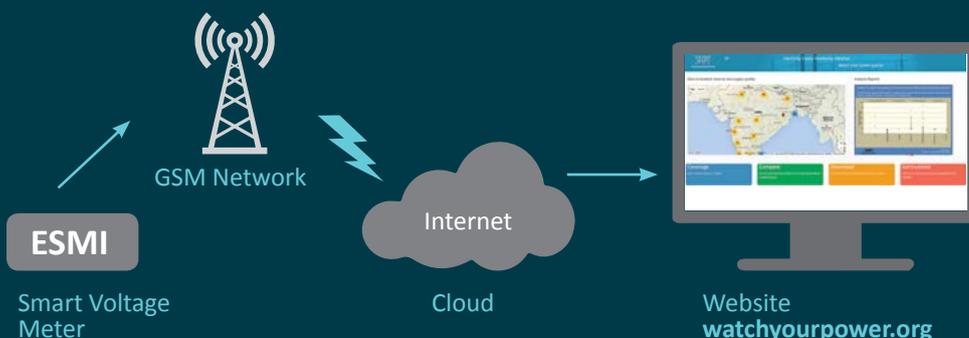
**61%**  
Other Cities



**21%**  
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.

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**Electricity Supply Monitoring Initiative**

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### 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.



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