



Prayas (Energy Group)

Electricity Supply Monitoring Initiative (ESMI)

Watch Your Power Quality

www.watchyourpower.org

Summary Analysis - January 2019

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. 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 55 districts across India.

This report presents a summary analysis of supply quality data from 191 locations (65 Rural and 126 Urban) for January 2019. 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 January 2019

48%

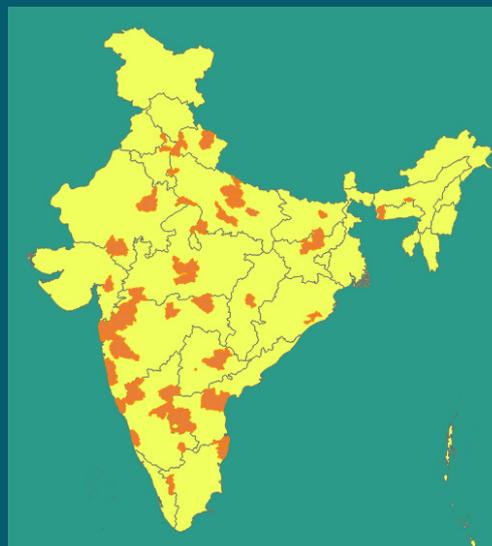
ESMI locations experienced outages for more than 15 hours

35%

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

30%

ESMI locations experienced average daily outage of 30 min or more during evening hours



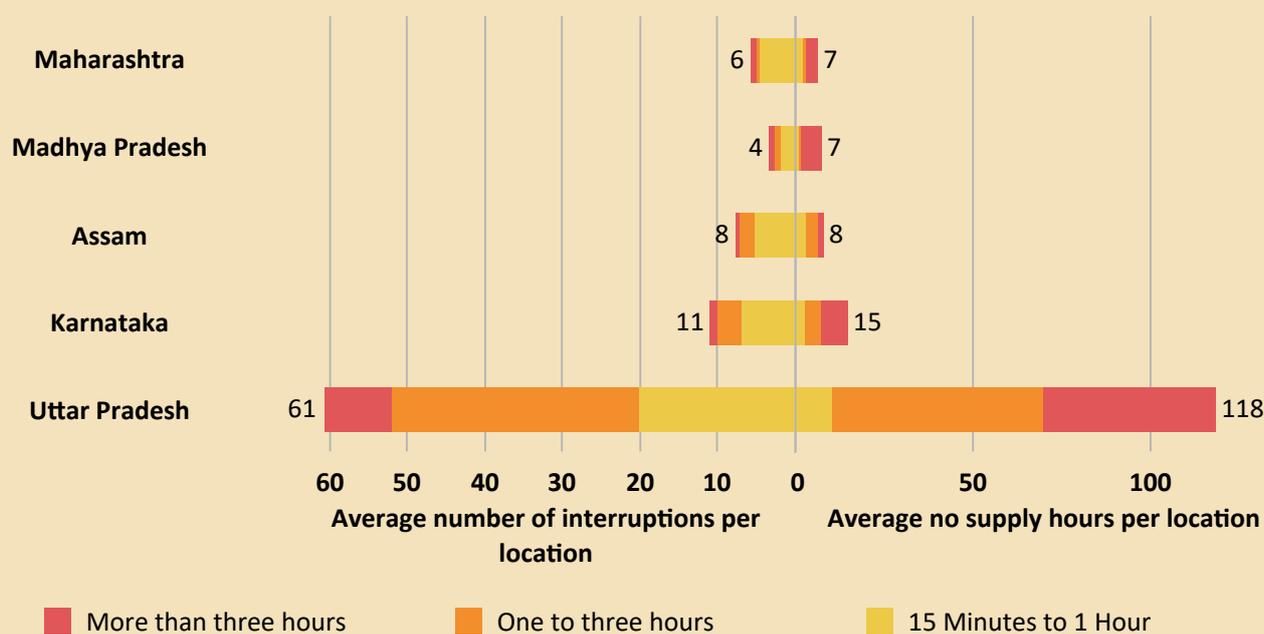
Map showing current ESMI expanse at district level

Supply Quality in Mega Cities - January 2019

Megacity	ESMI locations	Average number of interruptions per location		
		Short - 15 min to hour	Long - 1 hour and more	Average no supply hours per location
Pune	7	3	1	3
Kolkata	4	1	1	4
Chennai	8	3	2	5
Lucknow	4	7	2	6
Nagpur	4	3	2	7
Hyderabad	7	4	5	9

ID: AVGMC190101

Supply Quality in Other Cities - January 2019



State	Towns covered	ESMI locations
Maharashtra	10	15
Madhya Pradesh	2	7
Assam	1	5
Karnataka	4	6
Uttar Pradesh	16	32

ID: AVGOMC190102

Supply Quality in Rural Areas - January 2019



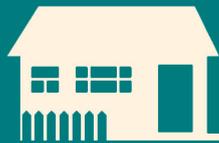
	Maharashtra	Karnataka	Uttar Pradesh
ESMI locations	14	4	37
Average no supply hours per location	21	31	254

ID: AVGGP190103

ESMI Locations Receiving Entire Six Hours of Evening Supply



91%
Mega Cities



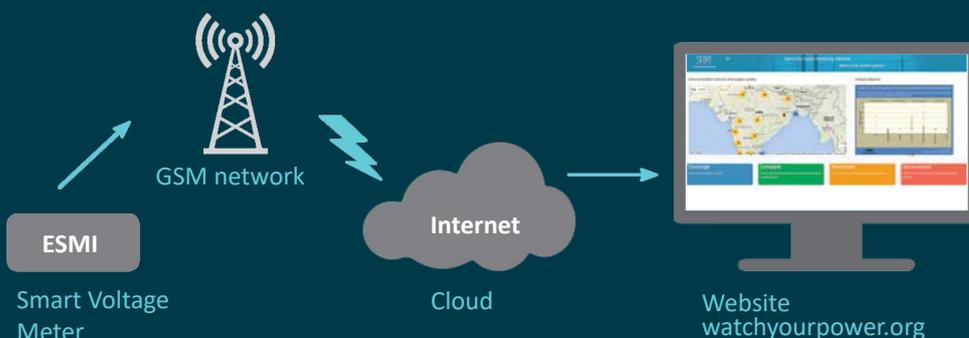
51%
Other Cities



20%
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: AVGEHS190104



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
- Analyses, except evening hours of supply consider interruptions of more than 15 minutes



Prayas (Energy Group)

www.prayaspune.org/peg