

Watch Your Power Quality

www.watchyourpower.org

Summary Analysis - April 2016

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 50 districts across India.

This report presents a summary analysis of supply quality data from 160 locations (33 Rural and 127 Urban) for April 2016. 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 April 2016



ESMI locations expereinced outages for more than 15 hours



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



ESMI locations experienced average 30 min of outage during evening hours



Map showing current ESMI Expanse at district level

Supply Quality in Mega Cities - April 2016

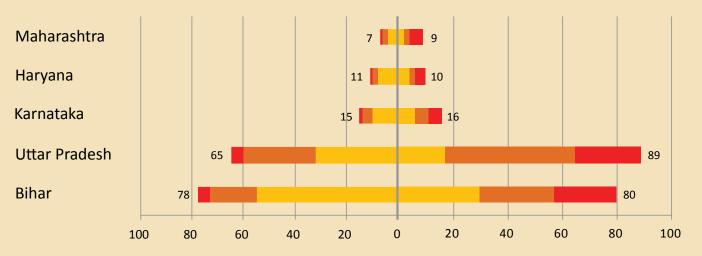
		Average number of interruptions per location		
Mega City	ESMI locations	Short 15 min-1 hour	Long More than 1 hr	Average no supply hours per location
Chandigarh	5	1	1	1
Jaipur	7	2	1	2
Delhi	7	4	3	10
Hyderabad	9	6	4	10
Pune	6	4	2	11
Bengaluru	8	13	6	17
Kanpur	9	21	10	35

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Supply Quality in Other Cities - April 2016

Average number of Interruptions per location

Average no supply hours per location

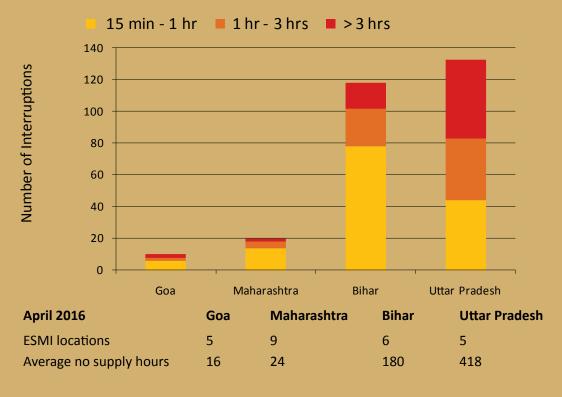


■ 15 min - 1 hr ■ 1 hr - 3 hrs ■ > 3 hrs

States	Cities covered	ESMI locations
Maharashtra	7	29
Haryana	1	4
Karnataka	2	5
Uttar Pradesh	3	6
Bihar	2	7

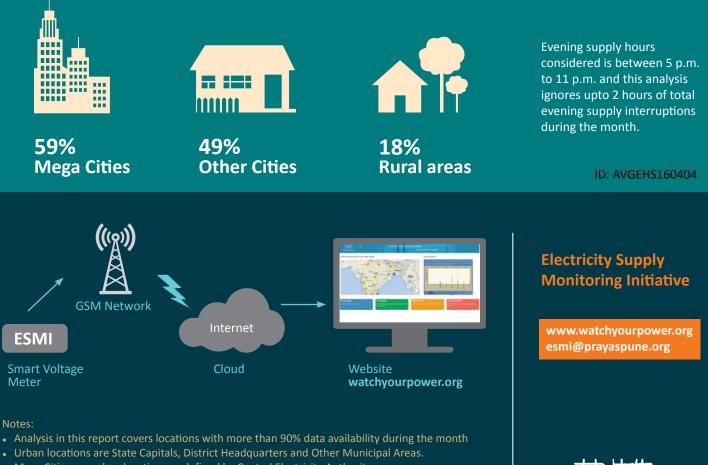
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Supply Quality in Rural Areas - April 2016



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ESMI Locations Receiving Entire Six Hours Of Evening Supply



- 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