Summary Analysis - December 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. 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 129 locations (27 rural and 102 urban) for December 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 December 2015

- **53%** ESMI locations faced more than 4 hours of power outage per week
- **19%** ESMI locations faced more than 30 power supply interruptions
- **16%** 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 - December 2015

<table>
<thead>
<tr>
<th>Mega City</th>
<th>ESMI locations</th>
<th>Short 15 min-1 hour</th>
<th>Long More than 1 hr</th>
<th>Average no supply hours per location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chandigarh</td>
<td>5</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Delhi</td>
<td>7</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Pune</td>
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<td>3</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Hyderabad</td>
<td>6</td>
<td>6</td>
<td>2</td>
<td>7</td>
</tr>
<tr>
<td>Nagpur</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>18</td>
</tr>
<tr>
<td>Bengaluru</td>
<td>6</td>
<td>9</td>
<td>6</td>
<td>30</td>
</tr>
<tr>
<td>Kanpur</td>
<td>8</td>
<td>11</td>
<td>9</td>
<td>30</td>
</tr>
</tbody>
</table>

**Average number of interruptions per location**

**States Cities covered ESMI locations**

- Haryana: 2, 5
- Karnataka: 2, 6
- Uttar Pradesh: 4, 11
- Maharashtra: 5, 23

### Supply Quality in Other Cities - December 2015

**Average number of Interruptions per location**

**Average no supply hours per location**

**ID:** AVGOMC151202
Supply Quality in Rural Areas - December 2015

- 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.

ESMI Locations Receiving Entire Six Hours Of Evening Supply

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.

ESMI Locations

- Karnataka: 5 ESMI locations, Average no supply hours: 76 hours
- Maharashtra: 12 ESMI locations, Average no supply hours: 39 hours
- Uttar Pradesh: 6 ESMI locations, Average no supply hours: 448 hours

Electricity Supply Monitoring Initiative

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ID:AVGEHS151204

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).
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