The need for harmonised indicators and methodologies to monitor access to energy

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Harmonising methodologies and principles for monitoring access
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We define modern energy access as “a household having **reliable and affordable** access to clean cooking facilities and to a **minimum** level of electricity consumption which is **increasing over time**”.

* Practically, used for forward-looking projections & integration with the World Energy Model;

* Implementation for monitoring access is difficult.
Tracking electrification progress: difficulties

- IEA database updated from a combination of sources:
  - Government contacts & statements (in some cases national statistics), country-level representatives of international organisations, USAID, LSMS & ECLAC surveys

- Methodological issues with establishing baseline
  - E.g., sampling issues with surveys
  - Definitions of access change over time and across countries;
    - Decentralised access
    - Shared meters
    - Reliability of connection

- Lack of basic data training & statistics capacity in many countries
Electrification surveys in India

Access to electricity in India (% of population)
Data issues

Fundamentals of monitoring the baseline
- In many (of the least developed) countries there are big gaps in basic access data;
- Where access is monitored/reported, definitions and methodologies of access are not harmonised;
- A standardised metric should not be complex.

Beyond tracking household access:
- Public buildings and services; electricity for productive uses;
- Energy consumption to energy services – tracking the efficiency of appliances;
- Affordability, reliability of connection.
Conclusion

- Data standardisation is key for monitoring energy access.
- The IEA has experience in building capacity in developing countries –
  - an international hub for energy statistics and modelling;
  - and for statistics training and enhancing relationships & data capacity.
- Seeking partners for energy & development work-plan for WEO 2017.