

# 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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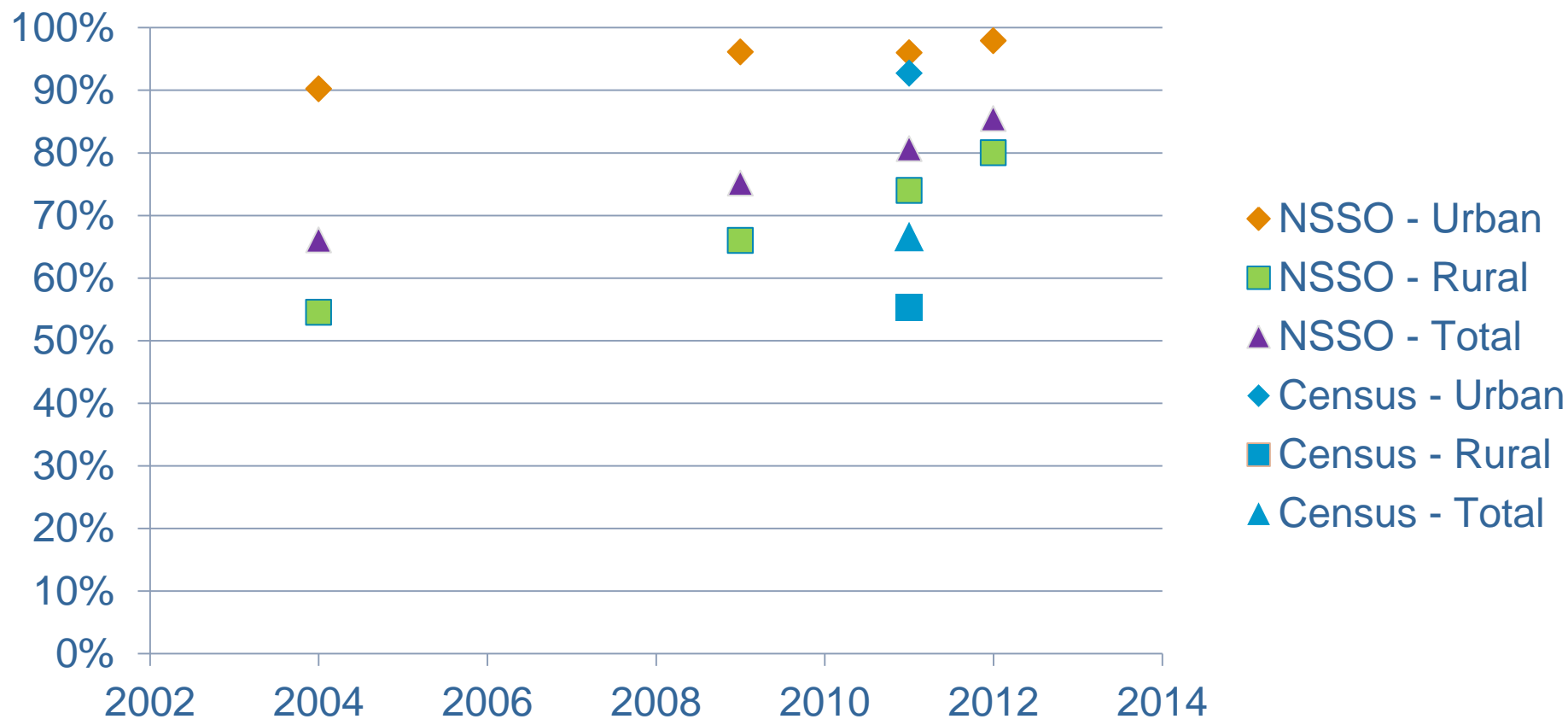
- We define modern energy access as
  - “a household having **reliable and affordable** access to clean cooking facilities and to a **minimum** level of electricity consumption which is **increasing over time**”.
  - Practically, used for forward-looking projections & integration with the World Energy 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.