

# Energy Access

## Addressing inequalities

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## **India at the cusp of an opportunity with adequate political support**

- Ambitious generation targets
- Make in India paradigm
- Electricity reach to each village
- Draft RE bill

### **Features of this conference:**

Between two RE-invests: Taking stock

Emphasizing all sources; not just solar PV

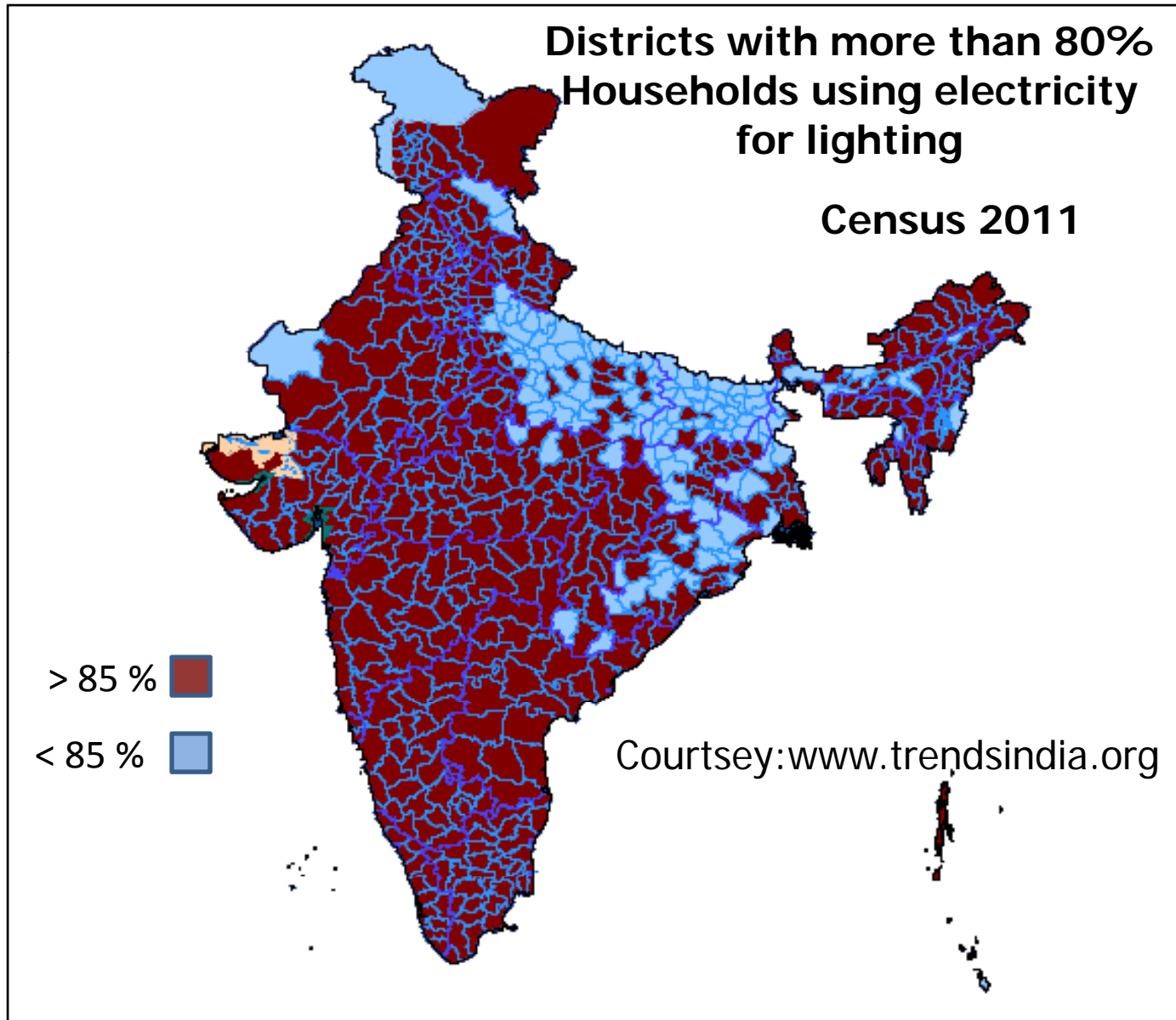
International experience:

- ❖ Learnings: Grid Management, Storage
- ❖ Opportunities: Business Collaborations
- ❖ Suggestions: Regulatory, Procedural

**Access inequities a major concern**

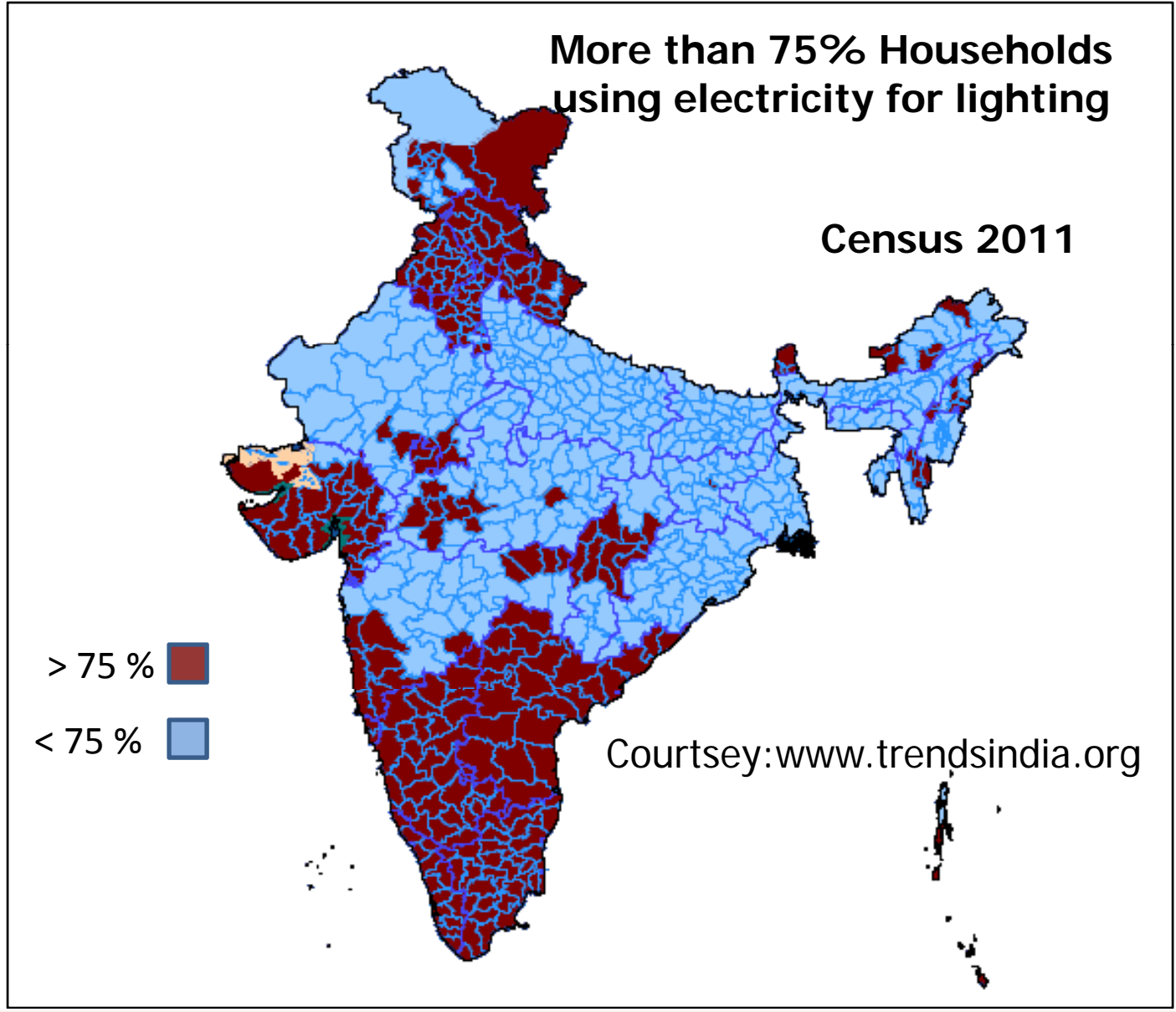
# Sources of Light

## Use of Electricity in Urban Sector



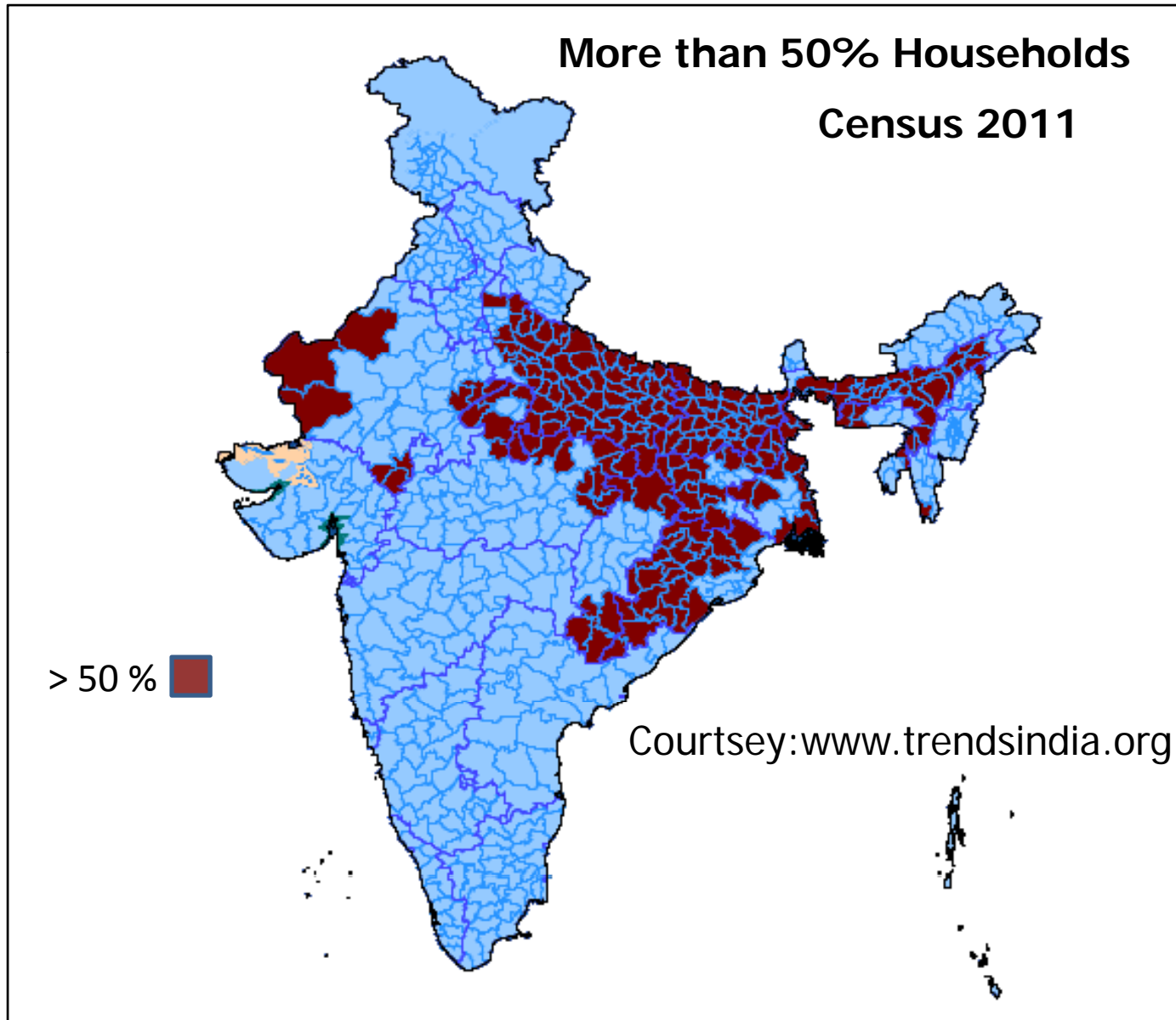
# Source of Light

## Use of Electricity in Rural Sector

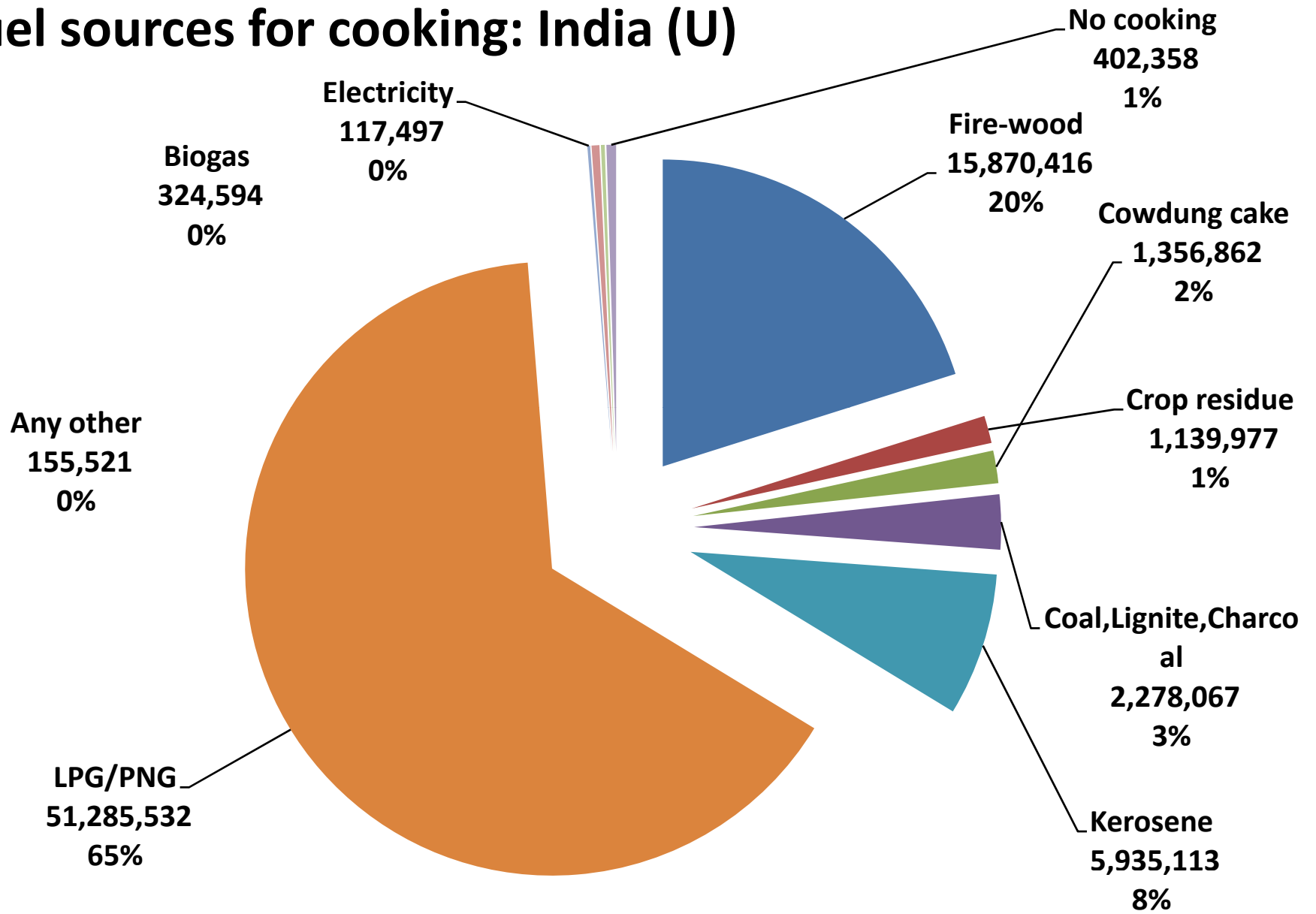


# Source of Light

## Use of 'Kerosene' in Rural Sector

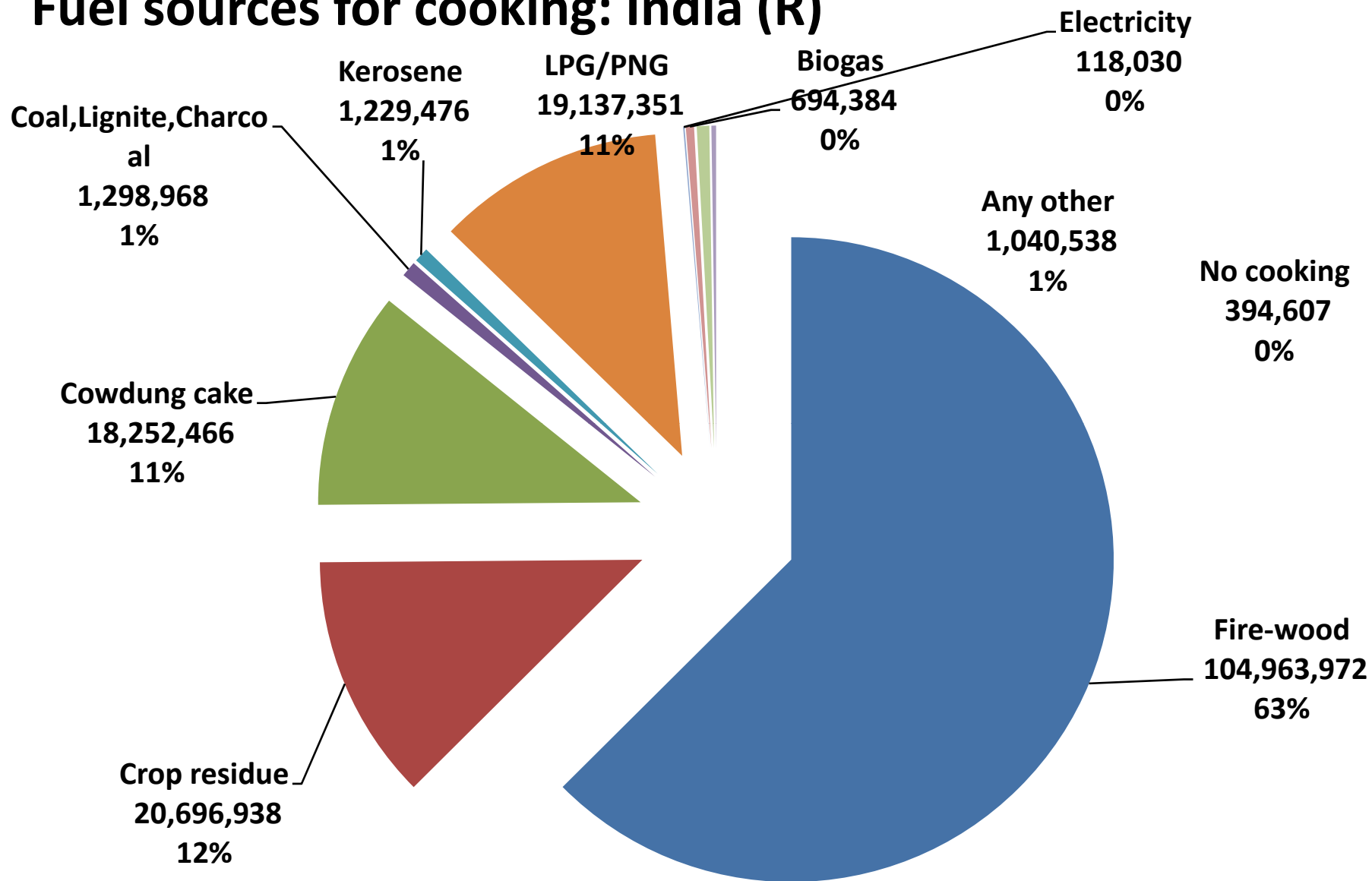


# Fuel sources for cooking: India (U)



Courtesy: [www.trendsindia.org](http://www.trendsindia.org)

# Fuel sources for cooking: India (R)

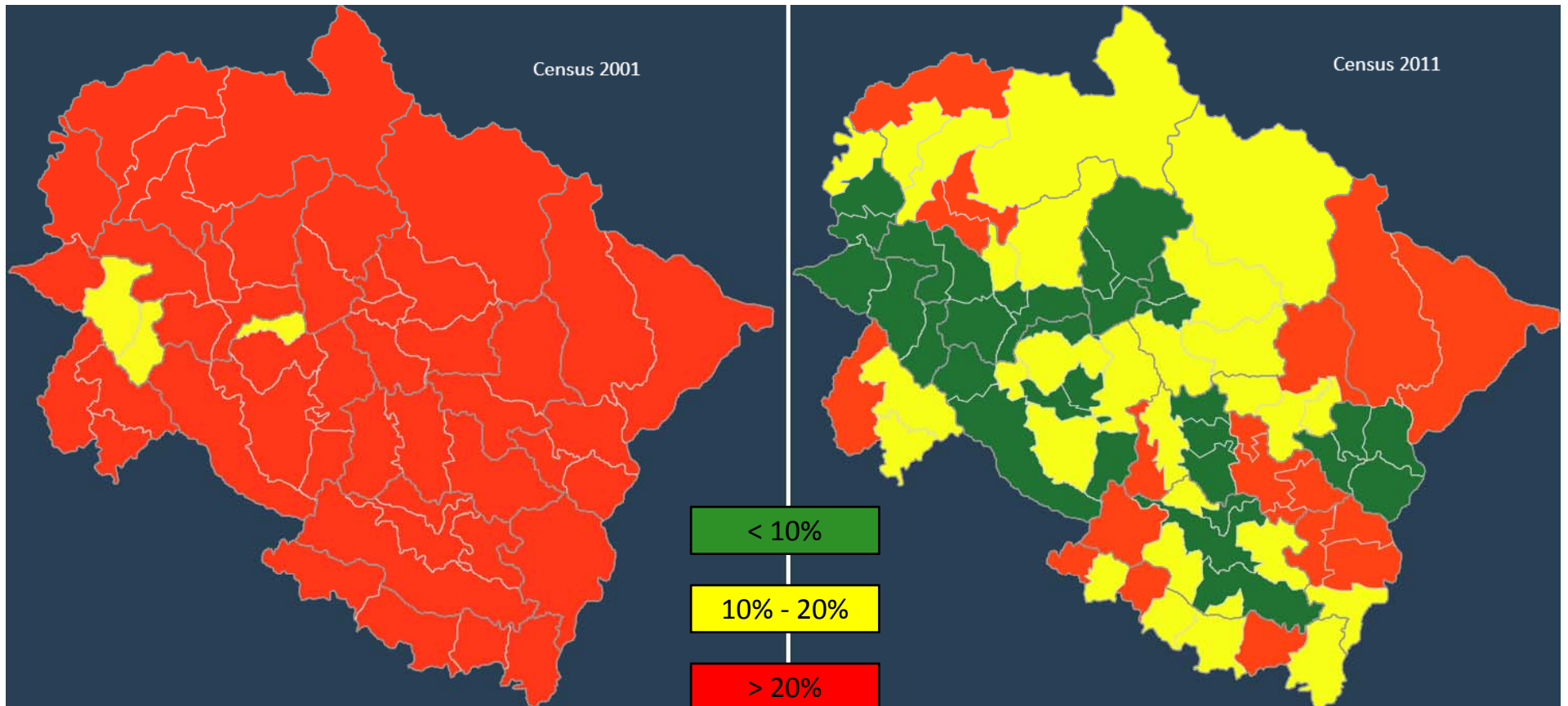


Courtesy: [www.trendsindia.org](http://www.trendsindia.org)

# What changes have happened between 2001 and 2011?

## Encouraging in some places

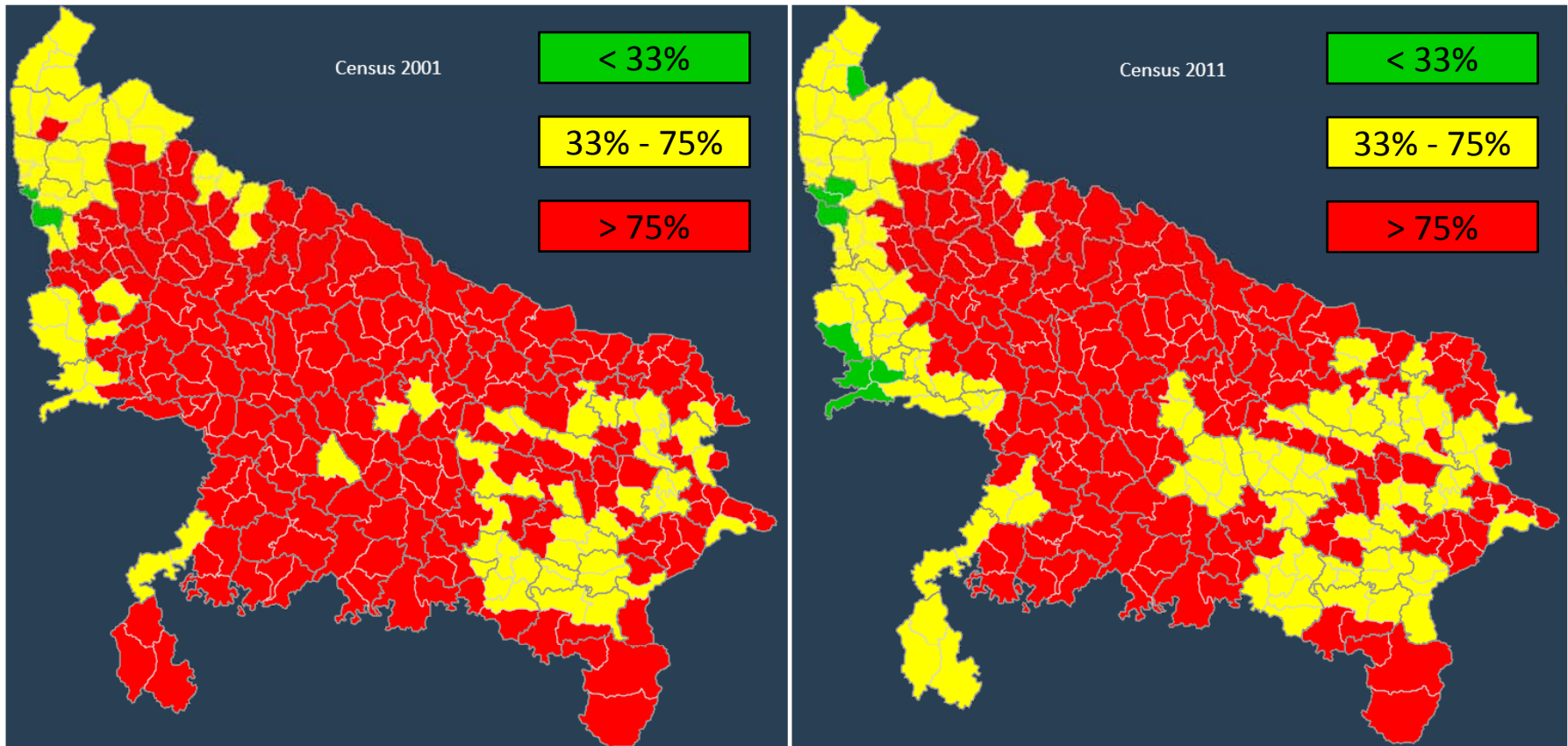
Kerosene as Source of Light in Rural Uttarakhand



Courtesy: [www.trendsindia.org](http://www.trendsindia.org)



# Discouraging in some places !



**Kerosene as Source of Light in Rural Uttar Pradesh**  
(2001)

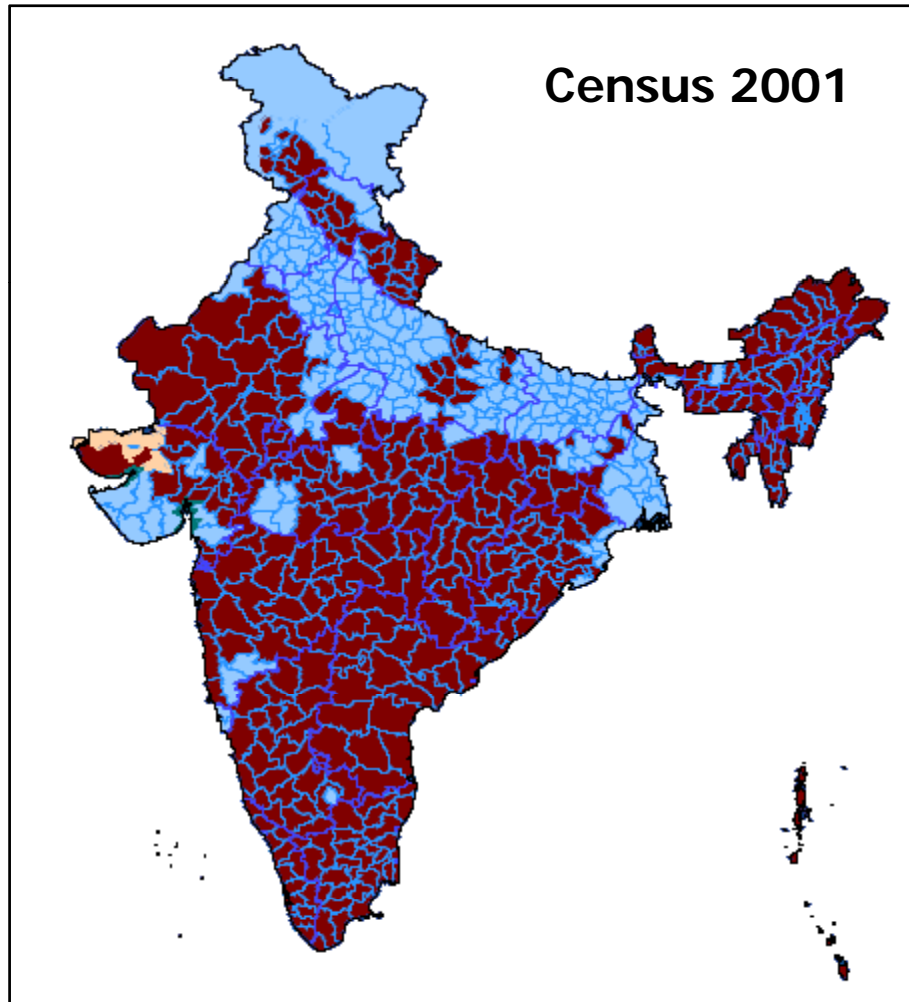
(2011)

Courtesy: [www.trendsindia.org](http://www.trendsindia.org)

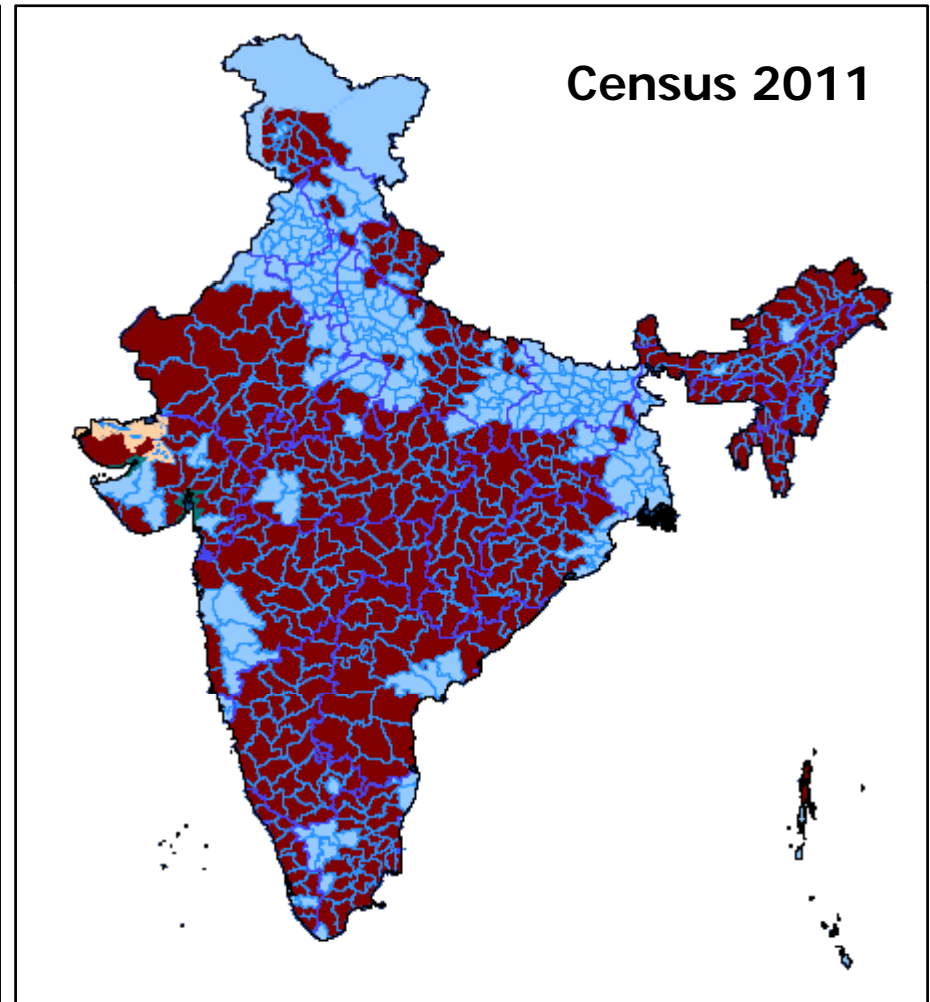
# Not so encouraging in some cases

## Use of Firewood in Rural sector

More than 62% households



More than 61% households

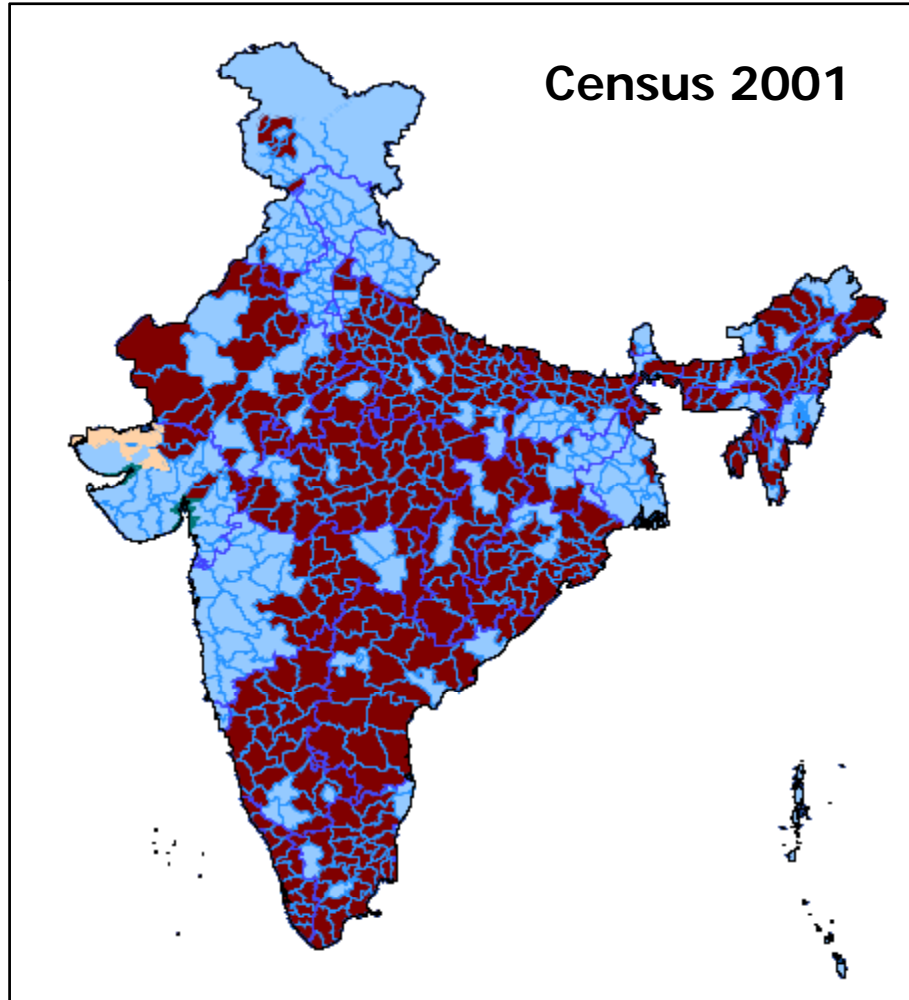


Courtesy: [www.trendsindia.org](http://www.trendsindia.org)

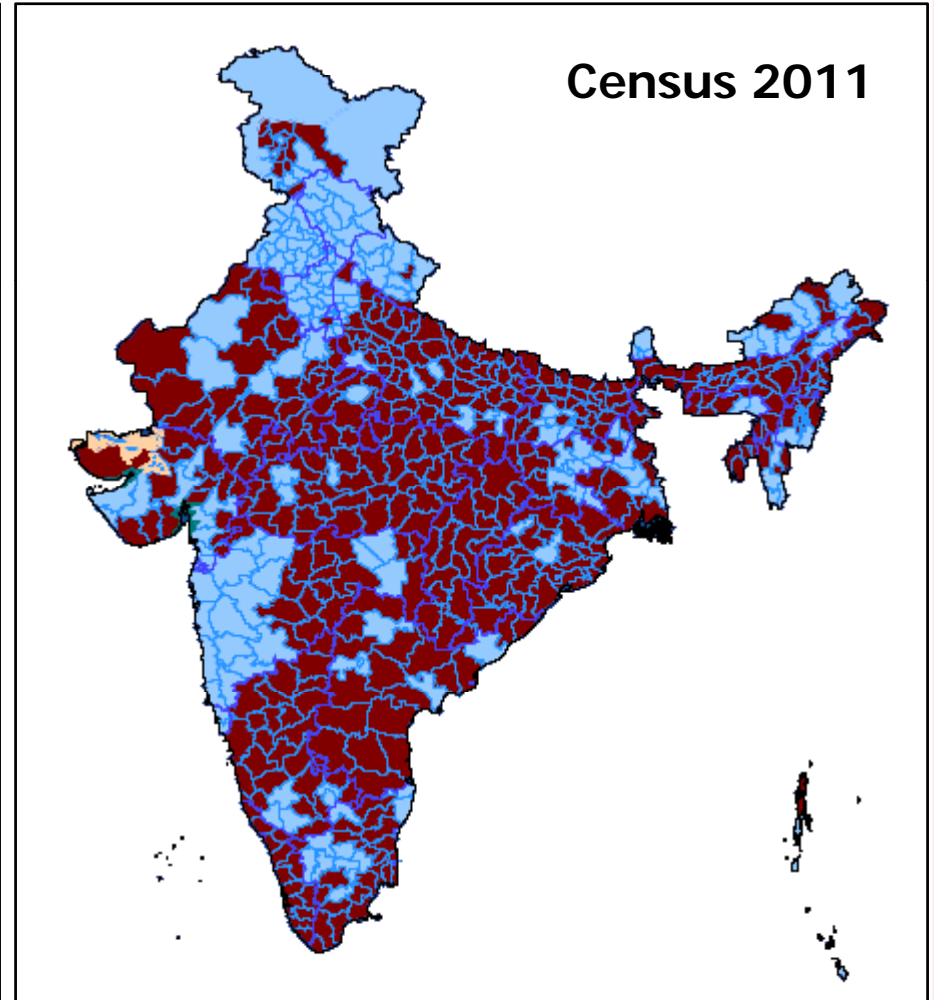
What changes have happened between 2001 and 2011?

## Use of Firewood in Urban sector

More than 25% households

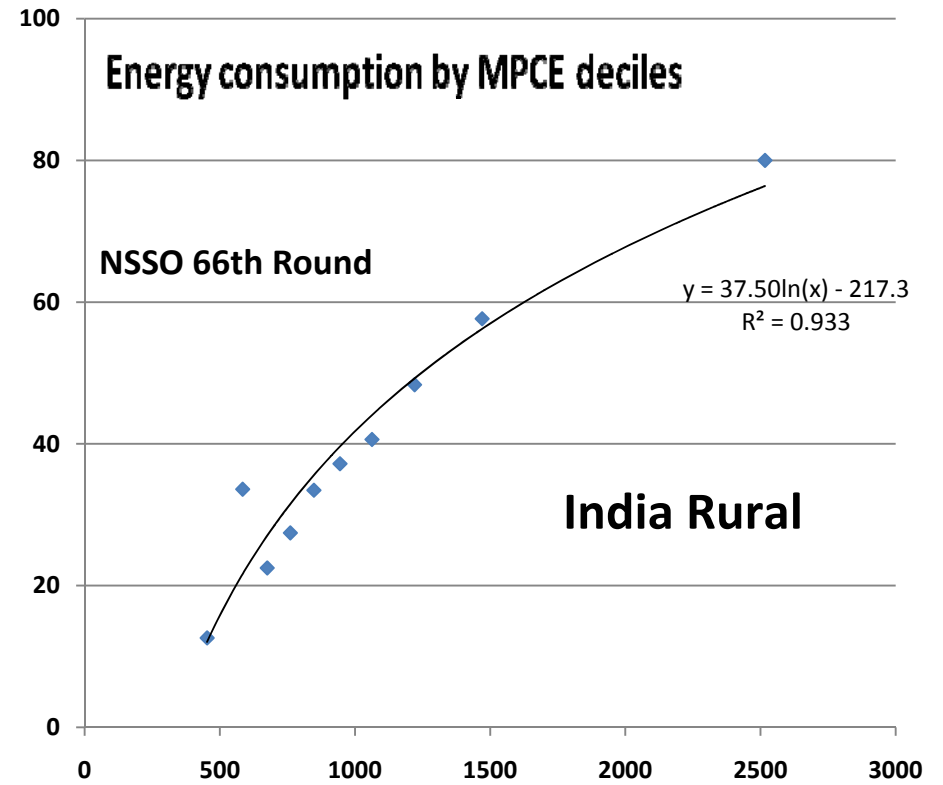
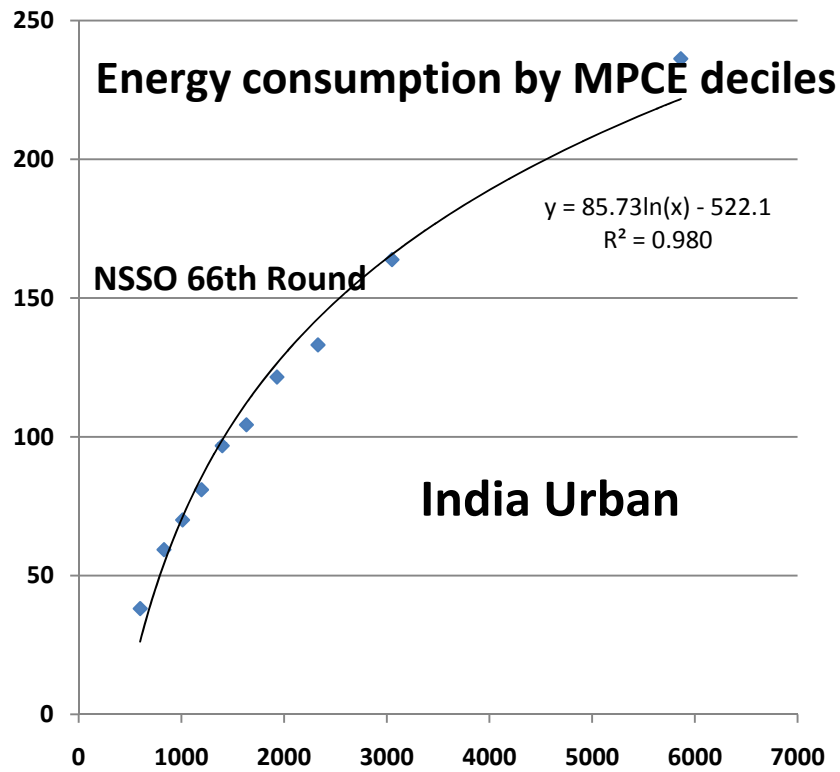


More than 20% households



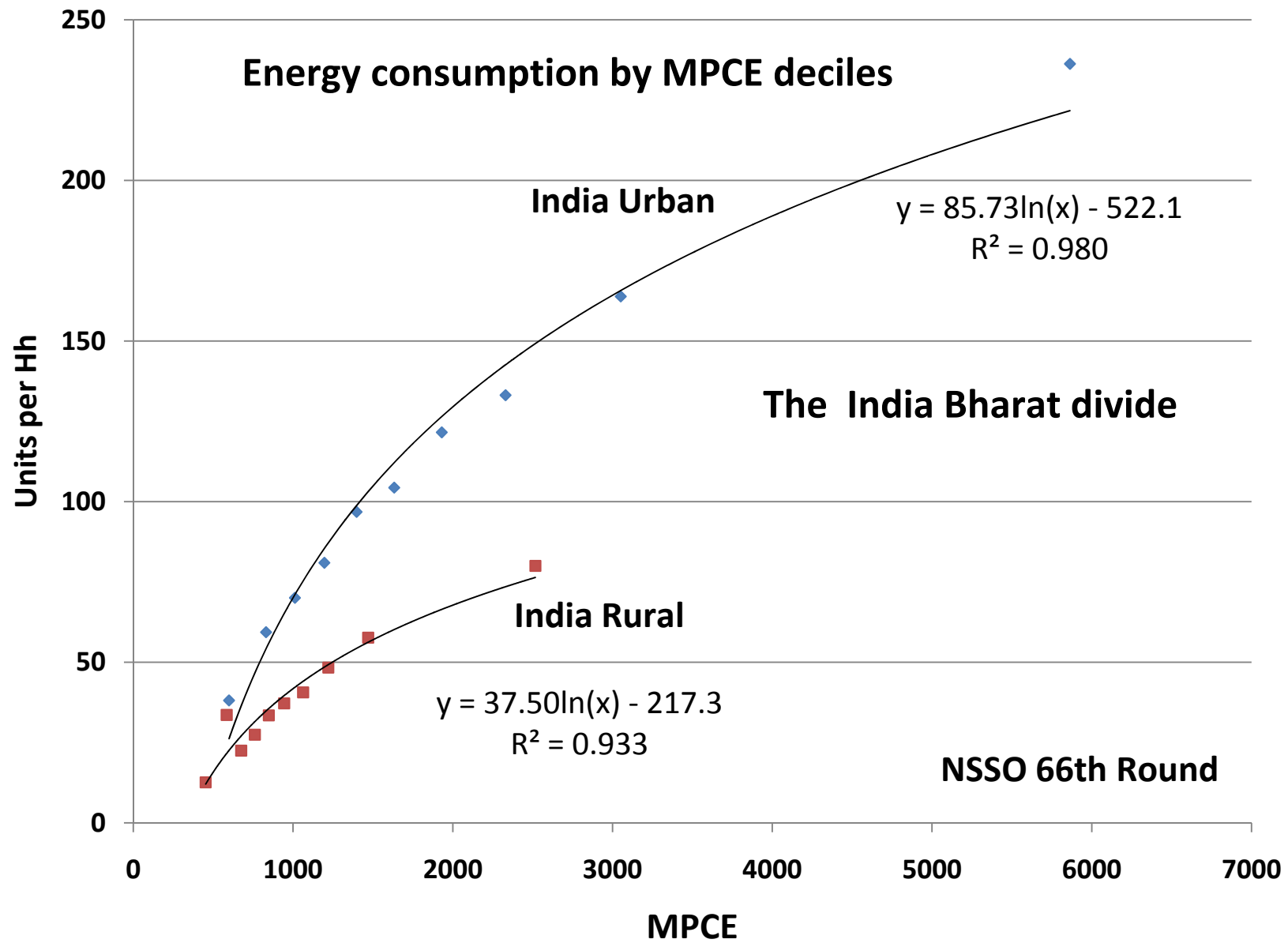
Courtesy: [www.trendsindia.org](http://www.trendsindia.org)

# How Much ?

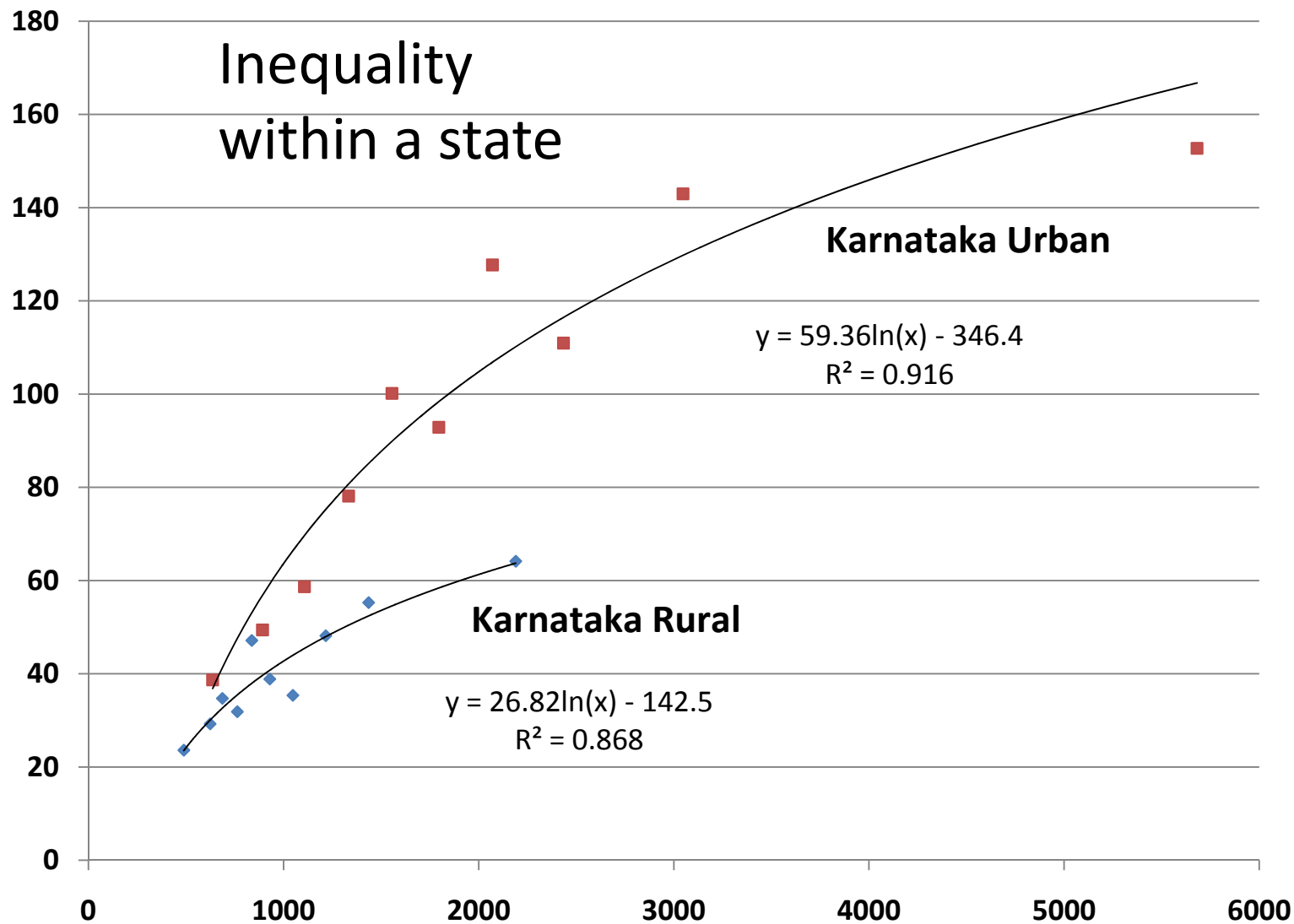


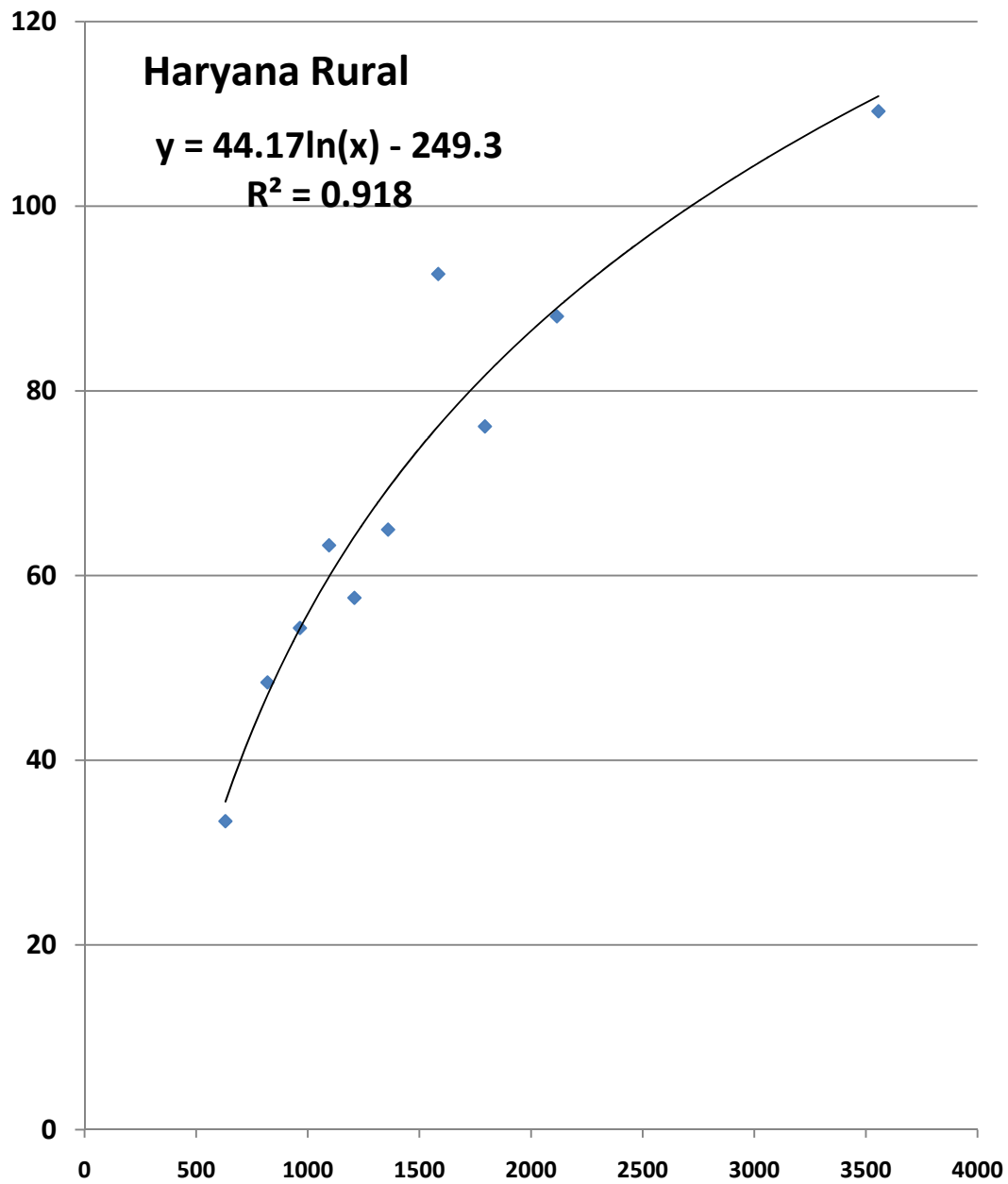
**Energy consumption by MPCE deciles for Urban and Rural areas**

**(NSSO 66<sup>th</sup> Round )**

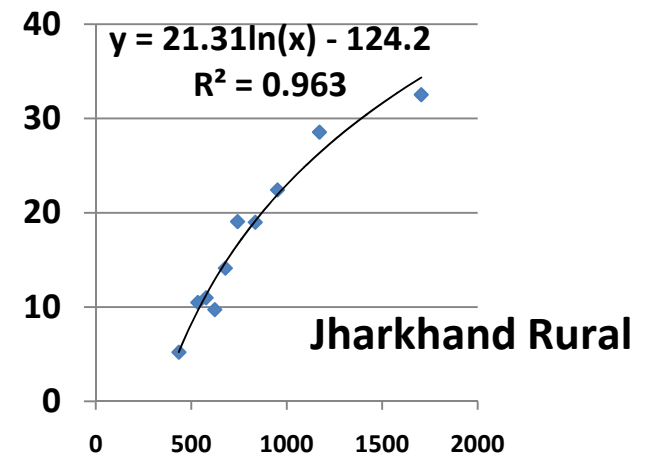


# Inequality within a state





## Inequality Between states



We therefore need to focus on

Governance issues, finance issues, regulatory issues, organisational issues and technology issues, to name a few.

There is a thus long and rich agenda before us.

I welcome you once again

**THANK YOU**