### Status of Energy Access in India

- Gauri Singh

## Powering villages in India

 Rural electrification is a key priority for Government of India

 Of a total of 597,500 villages, the villages electrified\* are 572600

Peak shortages range between 4 - 10 % regionally

#### Strategy

 Grid extension to all habitations with population above 100

 Separation of agriculture and non agriculture feeder to facilitate judicious rostering of supply

 Strengthening and augmenting sub transmission and distribution network.

# Renewable energy assumes an important role

- Target of 175,000 MW capacity addition of grid connected renewable energy by 2022
- Decentralized distributed generation with RE for villages/habitations where grid extension is not feasible or cost effective or have less than 6 hours of electricity
- Enhancing the availability of RE based applications through market mode

# Translating the national strategy into a implementation plan

- In a State/province like Madhya Pradesh, with nearly all 50,000 villages electrified, RE still has an important role to play
- Feeder separation has led to much better supply to rural domestic consumers
- Large tribal population dispersed over small habitations makes grid extension unviable.
- Thriving agrarian economy has created a demand for irrigation applications

### Planning for smart interventions

- Creating enabling conditions for Independent power producers and micro grid entrepreneurs to operate and invest
- Identifying opportunities for distributed RE
- Creating financial models that leverage existing subsidies to catalyze growth in renewables

#### Greening public services in rural areas

- High electrification rates notwithstanding, role of RE in meeting unmet demand is critical
- Health centers, residential education centers, police stations, forest villages, street lighting, village governance offices, in off road and remote areas are ideal for solar applications

### Micro grids – the next generation

- Rising aspirations and purchasing power in villages
- Desire for grid quality power has led to reassessing strategy for decentralized RE
- Focus on providing framework to support
  Micro grid operators and entrepreneurs
- Enabling Grid compliance