





OASYS South Asia Project: Experience and Lessons

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In this presentation...

- Project brief
- Activities undertaken
- Experience
- Lessons







Project brief

- Sponsors
 - EPSRC and DFID
- Project lifetime
 - October 20, 2009 to April 30, 2015
- Project partners













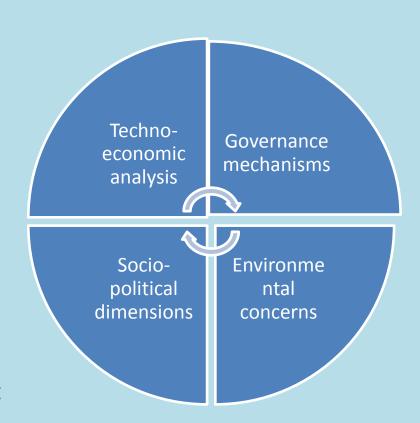




Project focus

Research Focus:

- Business Models for offgrid electrification in South Asia
- Local level solutions and their scale-up and replication potential
- A multi-dimensional analytical focus
 - techno-economics, governance, sociopolitical and environment









Activities

- WP1: analytical framework
- WP2: Assessment and selection of business models
- WP3: Demonstration
- WP4: Scaling-up and replication
- WP5: Policy recommendations

- Adopted an iterative, multi-level framework
- Analysed alternativebusiness delivery options
- Extensive demonstration
 - activities
- Analysed scaling-up inSouth Asian context
 - 10 broad policy recommendations



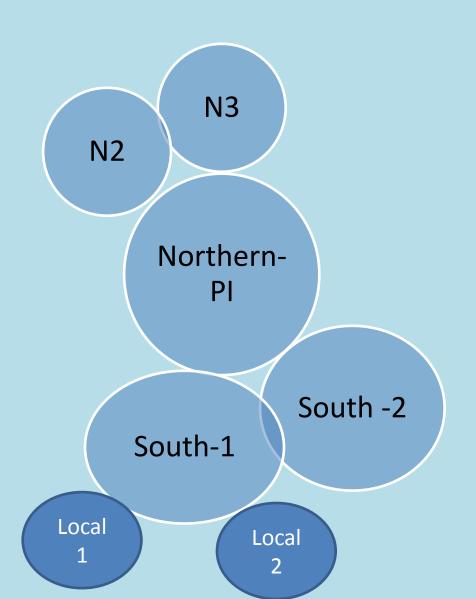




Experience...1

- Managing North-South Partnerships for off-grid electrification
 - Knowledge management
 - Scope of knowledge
 - Knowledge transfer and capacity building
 - Relationship management
 - Financial management
 - Quality management
 - Project management

Strong partnership is essential









Experience...2

- Dynamic course correction
 - Changes to project environment
 - SE4ALL Initiative and global attention on energy access
 - Changes in human resources
 - Organisational changes
 - Climatic conditions
 - Cyclone in Orissa site

Nimbleness and adaptability are essential





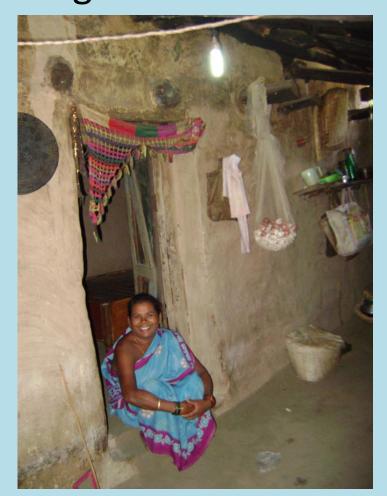


Experience...3

Transition from darkness to enlightenment



Priceless Experience



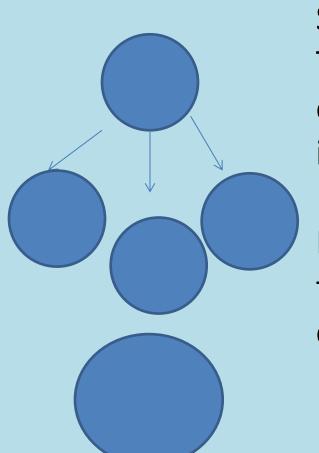






Experience ...4

Organisational capacity for scaling-up



Scaling can be top-down or bottom-up Top-down approach requires agency capacity to manage and sustain project implementation

Bottom-up approach requires ability of the local player to grow organically or creating a network of agents.

Weak capacity hinders scaling-up efforts







Lessons

- Mini-grids are demanding business activities and require
 - Sound technical design
 - To meet the demand at lowest possible cost;
 - To minimise technical intervention post installation
 - Appropriate organisational support
 - Common objectives but differentiated responsibilities
 - Local Integration to improve rural life
 - Builds cross-links and enhances viability
 - Strong policy and regulatory support







Lessons...2

- No single solution fits all
 - Local adaptation required
- Business-like approach required
 - Time to move from pilots to scaling-up and replication
 - Organised utility-oriented delivery approach required
- Extensive potential for co-operation for crosslearning







Thank you for your attention.

Visit: DMU site

http://www.dmu.ac.uk/research/research-faculties-and-institutes/institute-of-energy-and-sustainable-development/research-projects/oasys/index.aspx

Academia.edu

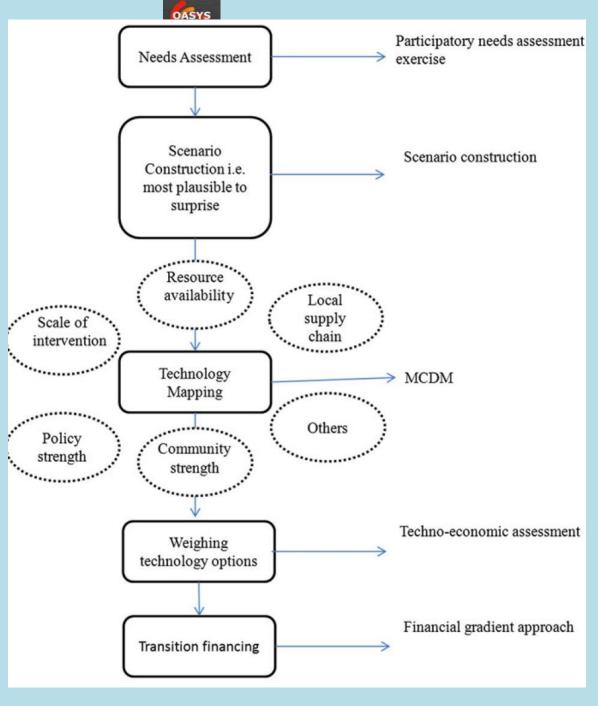
http://dmu.academia.edu/OASYSSouthAsiaResearchProject

Youtube for project videos

https://www.youtube.com/channel/UCODdfxqCKW9r8iyj7aEhWRw

https://www.youtube.com/watch?v=YKJS4a0Jbpc (for demo projects)







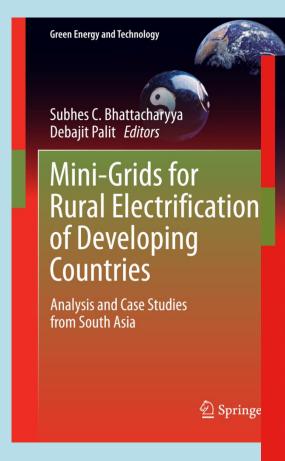








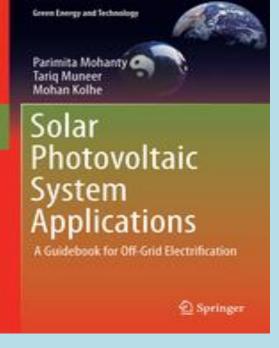






Rural Electrification Through Decentralised Off-grid Systems in Developing Countries











Orissa mini-grid demo









Private-led Pico-grid model



