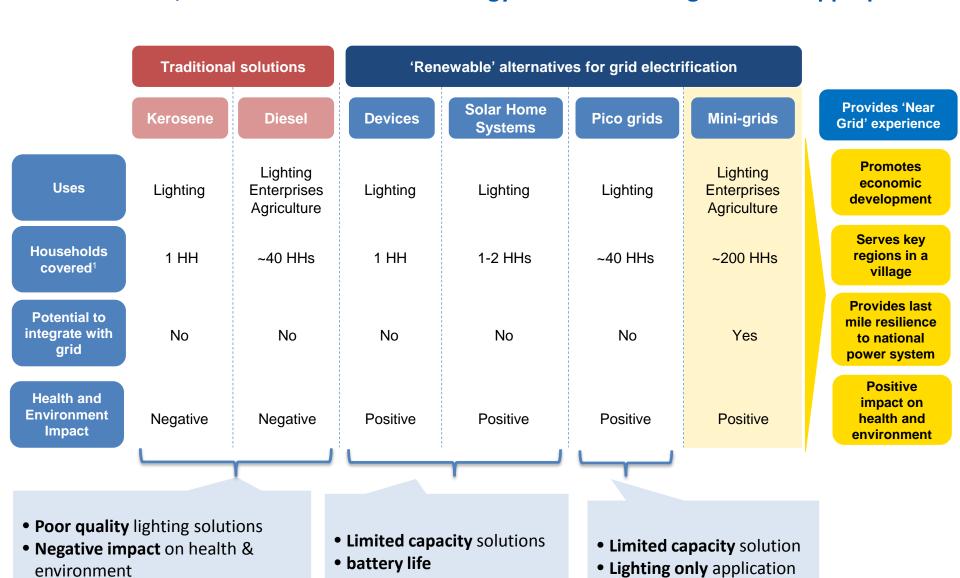


### Facilitation for New & Established mini-grid companies

Pariphan Uawithya
The Rockefeller Foundation
February 2017

### The Rockefeller Foundation has analyzed various available options for rural electrification; Distributed Renewable Energy Mini Grids emerge as most appropriate





### However, there are several challenges in scaling mini-grids

- Lack of scalability, sustainability and financial viability of business models
- Lack of financing for mini grid companies
- Logistical challenges of operating in rural geographies
- Lack of supportive policy for mini-grids



Concept of Solar PV mini grids pioneered in initiated 1990s



## In India, The Rockefeller Foundation has researched the rural electrification space, conducted pilots and arrived at a scalable model



#### 2011

- Initiated pilots for various plant technologies
- Refined SPRD technical and business model



#### 2015

- Smart Power India launched
- **\$ 75 mn committed** to the programme



#### 2009 - 2010

2009

Program

Launched

 Anchor tenant based SPRD business model developed to provide commercial viability



#### 2013

- 5 mini grid plants
- Learnings gleaned from plant operations



2016

94 mini grid plants

무루 • 7 ESCO partners '무무 • SPRD Business n

SPRD Business model

further refined;

learnings incorporated



# The Smart Power Initiative is currently impacting over 34,000 lives\* in the states of UP, Bihar and Jharkhand

U.P. Bihar Jharkhand		<b>94</b> Mini-Grids
		<b>6,067</b> Households
	OPEN	<b>2,979</b> Shops
		<b>579</b> Commercial Enterprises
		<b>97</b> Telecom Towers
	<u> </u>	<b>20</b> Institutions

#### **Current SPRD ESCO Partners**















<sup>\*</sup>Impact calculated based on direct users of SPRD electricity: Household Lighting = 5 users, Shop lighting = 1 user; Commercial = 1 user; Institutional = 10 users