

SCALING UP MINIGRIDS TO POWER THE UNDERSERVED

RP Renewable Microgrid Ltd. (TPRMG)
Bihar and Uttar Pradesh States, India
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TPRMG is demonstrating solutions to provide access to clean, affordable, reliable electricity in rural India. Through a scalable model, they plan to build 10,000 minigrids to bring electricity to 5 million households.



TPRMG CUSTOMER: SHRI.
SUBODH KUMAR, 3 KW
BUCKET FACTORY, BAKHARA
VILLAGE, MUZAFFARPUR

THE SITUATION

- Despite a growing recognition that ending energy poverty is a major global challenge, the collective efforts of the international community are simply not going far enough, nor fast enough
- Although grid electricity is available in many places, the lack of reliability means that alternative or complementary solutions are required
- Providing reliable electricity to the communities that need it most is one of the best ways for us to end poverty and unleash economic opportunity in our lifetimes

THE SOLUTION

TPRMG has developed a solution for building 10,000 minigrids across rural India. This business model can serve as an example to be replicated globally to create economic opportunity for the worlds' underserved.

TPRMG uses the latest technology innovations, with sharp cost reductions, demand management, and containerized solar minigrid technologies that can be quickly deployed and are specifically designed for rural applications.

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THE IMPACTS

- With economies of scale and technology innovation, TPRMG is already offering electricity tariffs lower than alternative off-grid solutions
- TPRMG has built 60 minigrids in Bihar and Uttar Pradesh over a span of nine months under strict lockdowns and travel restrictions
- A total of 200 minigrids are expected to be completed in 2021
- As the solution scales, it will bring power to five million households, supporting 100,000 rural enterprises and 400,000 farmers, while avoiding one million tons of annual CO2 emissions



TPRMG CUSTOMER: SHRI.
HARIHAR DUTT SHUKLA,
COMMERCIAL SHOP, PATHRI
BAZAR, GONDA



“

Over a period of time, we have brought down [cost] by more than 50%... If the capital cost comes down, then it becomes affordable.

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Praveer Sinha
CEO, Tatapower

MORE INFORMATION

www.tatapower.com/products-and-services/micro-grids.aspx

FURTHER READING

→ RURAL ELECTRIFICATION IN INDIA: CUSTOMER BEHAVIOUR AND DEMAND
Smart Power India 2019



ELECTRIFYING ECONOMIES

The Electrifying Economies project

demonstrates the role distributed energy will play in ending energy poverty and catalyzing a green and equitable recovery from the Covid-19 crisis. It draws on the latest data and research from around the world to show how distributed renewables can provide sustainable, affordable, and reliable power for all. The project provides information to support policy makers and investors in taking action today, to realize this potential.



#ElectrifyingEconomies
ElectrifyingEconomies.org