

Energy and Environment

Evaluation for Smart Power for Rural Development



Sambodhi conducts periodic progress monitoring and assessment of The Rockefeller Foundation’s biggest energy program in India, Smart Power for Rural Development (SPRD). As part on the ongoing M&E support to SPRD, Sambodhi conducted an Impact Evaluation study in 2016, in which we applied a two-pronged assessment framework consisting of an evaluation arm and a periodic progress-monitoring arm.

The sample for this study was 39 sites across the two Indian states of Uttar Pradesh and Bihar, consisting of 1,000 households and 320 micro-enterprises. Another 328 non-customer households were consulted to provide a comparative perspective. The insights from the study have helped assess the impact of interventions on rural communities.

Sambodhi has partnered with the Asian Development Bank to evaluate the productivity and efficiency of an off-grid energy solution for the underserved electricity consumers, especially the females, in rural India.

We conducted Randomized Controlled Trials across the Indian states of Odisha, Bihar & Uttar Pradesh covering a sample of 1500 households that is equally divided into treatment and control groups.

The learnings can help understand the viability of the digital technology-based platform in improving product sales, service quality and socio-economic conditions of the consumers.

Reducing Roof-top Solar Power Supply Cost using Digital Technology



Baseline Energy Access Survey in India



Sambodhi worked with the World Bank to conduct a baseline survey on multi-tier energy access in the four Indian states of Andhra Pradesh, Jharkhand, Rajasthan & Uttar Pradesh.

The study design employs a multi-stage stratified random sampling in 3 consecutive stage. A sample size of 14,000 households was covered across the four states. 1200 enterprises in UP and Jharkhand and 200 mini grid operators in UP were also included in the survey.

The survey helped us provide critical data on energy access and consumption patterns that are relevant to a league of stakeholders. The survey findings would also help national statistical offices in tracking India’s progress toward SE4All goals and SDGs.

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Creating a Shared Framework and Roadmap for Adoption of Clean Cooking in India

Initiated by TATA Trusts, this learning program is primarily an action research that partners with key implementers in the clean cooking sector, viz, TERI, Dharma Life, SEWA and SG Foundations and research think tanks like Sambodhi.

Sambodhi is conducting a longitudinal study across a panel of households in the 4 Indian states of Uttar Pradesh, Gujarat, Bihar and Odisha using a mixed-method approach. A total of 1280 Improved Cook Stove (ICS) users have been selected for the longitudinal panel-research design. The study will bring out practical learnings and critical insights from the grassroot that will be shared with the sector at large. The insights will help inform fund-flows, augment program designs and policies and, also create a roadmap for what could help sustain, grow and scale impact. ● ●



Rural Electrification Project (REP) is an initiative by MLINDA Foundation to promote sustainable business models delivering renewable electricity to rural households and enterprises through installation of solar mini-grids and selling the energy for domestic and productive uses. ERP is currently active in 8 villages of the Indian state of Jharkhand.

As the evaluation partner to ERP, Sambodhi is conducting a study to assess the impact of this initiative on the economic status of the community and understand the environmental impact of this intervention. We have adopted a quasi-experimental design with a mixed-methods approach. The study sample covers 360 households and 40 enterprises.

Our evaluation has generated critical insights into the expectations, behavioural changes, time use patterns of both men and women, change in aspirations of the community etc. that can help refine implementation strategies for ERP and potentially shape future policies to achieve impact at scale. ● ●

Evaluation of Rural Electrification Project in Jharkhand

