

# State Grid Small and Micro Enterprises Power Consumption

Do micro- and small enterprises have a grid connection in North India?

Micro- and small enterprise surveys from rural North India are analysed (N = 2,004). 34% of MSEs have no grid connection, despite complete village electrification. Variation in grid reliability did not explain connection rates nor low consumption. Electricity policy reform targeting productive use must consider wealth constraints.

Do micro- and small-enterprises use electricity in rural northern India?

In this paper, we contribute new evidence describing electricity use among micro- and small-enterprises (MSEs) in rural northern India. Puzzlingly, 34% of the 2,004 MSEs surveyed have no grid-connection despite almost complete village grid electrification.

Are microgrids the future of power supply?

The development of microgrids (MGs) and smart grids, as creative alternatives to the traditional power grid structure, has prepared the way for the development of the future of power supply. RE is required because of its multiple benefits, including being an inexhaustible supply of free energy with no emissions.

Do MSEs consume a lot of electricity?

Our work suggests that in spite of the expected endogeneity between MSE performance and grid supply quality, even when grid supply is adequate, some MSEs opt out of a grid connection and those connected may still consume very little electricity.

Is revenue village grid supply reliability a determinant of rural MSE grid connection?

The effective exclusion of revenue village grid supply reliability as a determinant of rural MSE grid connection and utilisation in our sample provides a starting point into understanding electricity needs and growth constraints of micro- and small non-farm enterprises in rural northern India.

How much electricity does a rural MSE use?

Rural MSEs that do decide to connect to the national grid nevertheless consume very little electricity. Indeed only a minority of the surveyed grid-connected MSEs (42%) use energy services beyond lighting and fans. 75% of grid-connected firms consume less than 30 kWh per month, the same share of off-grid firms consume less than 15 kWh per month.

17th International Conference on the Domestic Use of Energy, Cape Town, 15-16 April 2009 Small enterprises are important in the growth of economies and they stimulate the economy through employment, skill transfer and by addressing ...



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