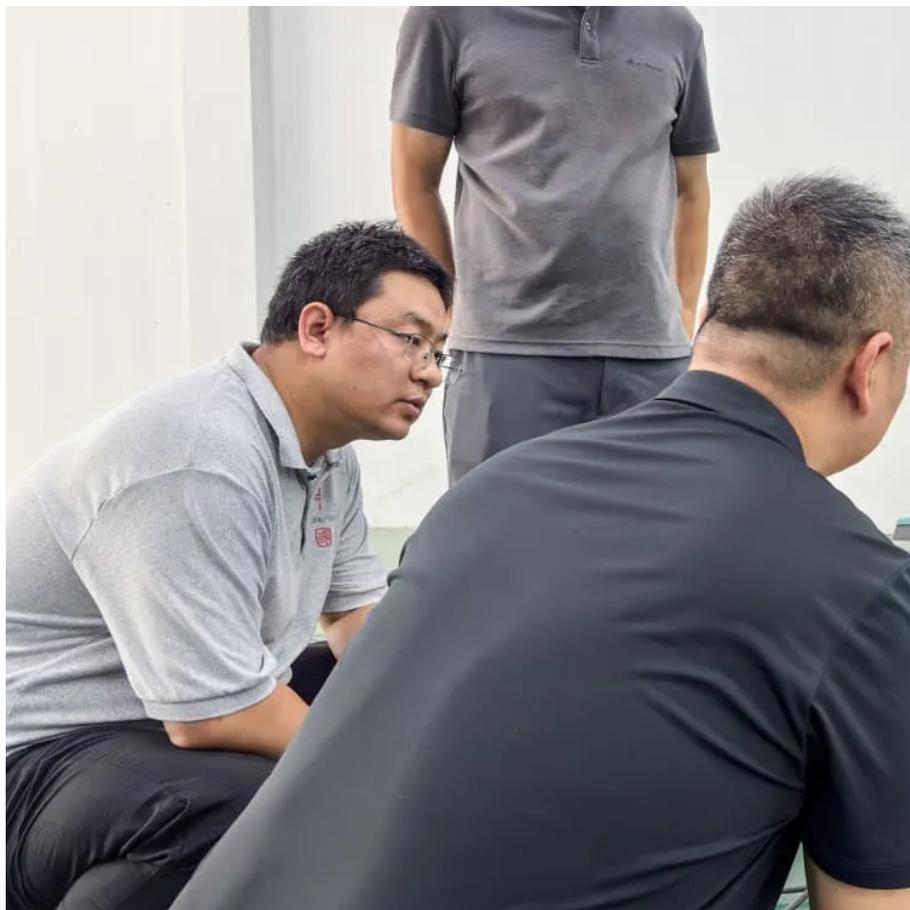


Rural small solar off-grid system





Overview

Can off-grid installations improve rural electrification rates?

For the governments of developing nations, an immediate answer to improving rural electrification rates is the extension of the grid . However, technical or economic constraints may prove grid extension unviable. In this case, off-grid installations are deployed. Historically, this has been achieved by diesel generators .

Will 70% of rural connections be off-grid?

IEA also expect that 70% of rural connections will be off-grid by the same year. The World Bank also finds that several RE technologies (e.g. wind and biomass) are more economical than diesel or gasoline generators for off-grid applications, especially at smaller scales .

How many people are in rural areas without electricity?

However, there are still over a billion people worldwide, 87% of which are in rural areas, without electricity , . Many are still dependent on traditional biomass and imported fossil fuels (e.g. kerosene, diesel) for their energy needs.

Which design options are suitable for a community micro-grid?

Six of the design options are suitable for installations in individual households and the rest for integration into a community micro-grid. The hybrid micro-grid system with solar PV, wind turbine, and lead acid battery (C-PV + WT + LA) has the lowest impacts in most of the 18 categories considered.



Rural small solar off-grid system

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