

Rural microgrids netherlands

The Alliance for Rural Electrification contributed to the conversation on mini-grids during the Future of Energy Summit that took place from 29 February to 1 March 2024 in Amsterdam, Netherlands.

Julia von Franz, Policy & Advocacy Officer, moderated the panel discussion "Unlocking the Full Potential of Rural Mini-grids" where panellists discussed the potential of mini-grids in rural electrification.

Metabolic undertook analysis of four smart micro-grid solutions to determine how community-level renewable energy networks could become self-sufficient, and support the Netherlands in reaching its renewable energy targets.

The Dutch government aims to increase renewable power generation by 500% by 2030. This will require radical changes to how the country's energy system works, and this report sought to find out what the potential is for Smart Integrated Decentralised Energy (SIDE) systems, a highly sustainable and resilient subset of microgrids, to contribute to the renewable energy transition.

This was done by looking at, and improving on, the techno-economic performance of four different cases that currently represent the state-of-the-art of decentralised renewable energy systems: the Aardehuizen, De Ceuvel, Schoonschip and Republica Papaverweg. Using both real-world data from the Aardehuizen and De Ceuvel, and detailed design criteria for Schoonschip and Republica Papaverweg, a detailed overview of their performance could be attained based on the indicators of: local renewable energy production, self-consumption, capital investment and payback period.

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