

Project Developer
Plentify

Plentify is an energy technology company in South Africa that enables smarter, cleaner and cheaper electricity through a smart home platform that adapts to user behaviour and the needs of the grid.

plentify

Total Project Budget
EUR 429 400

EEP Africa Financing
EUR 299 955

Project Partners
City of Cape Town,
German Agency for
International
Cooperation (GIZ)

Type
Pilot project
On grid

Project Code
SA16774



Technology
Energy Efficiency

Location
South Africa



TRANSFORMING WATER HEATERS INTO INTELLIGENT BATTERIES

This project will pilot an innovative technology that transforms household water heaters into intelligent thermal batteries for smart, clean energy. Electric water heaters waste half the energy they consume and drive up demand at peak times when solar is not an option. This contributes to South Africa's erratic, polluting and costly energy. Plentify's HotBots are smart devices that turn water heaters on only when needed and at optimal times for the electric grid. This shift in energy consumption improves efficiency and boosts solar capacity for municipalities. EEP Africa financing will enable Plentify to expand its pilot project in Cape Town and demonstrate the environmental impact and economic value of the new technology.



Outcome and Impact

The project will deploy HotBots into 500 homes in the City of Cape Town. Every HotBot saves 1 MWh in energy and 1 tonne in CO₂e emissions per year. This project brings together public and private partners to improve energy reliability and efficiency in South Africa. This will accelerate the adoption of renewable energy and reduce the cost of electricity and hot water for households and businesses.

EEP Africa is a financing facility for early-stage clean energy projects in Southern and East Africa. It is hosted and managed by the Nordic Development Fund (NDF) with funding from Austria, Finland and NDF.