

PIENAAR ENERGY (PTY) LTD

Amsterdam microgrids



Overview

The micro grids will be used to simultaneously control production, storage and use of electricity. An Energy Market Platform will allow residents and other users to trade peer-to-peer, community-to-community or with the wholesale energy markets. Schoonschip is a residential community of 46 households, located in the north of Amsterdam, which has been built on the water following a holistic approach to sustainable urban development. In this district, new energy efficient buildings are being built, a high share of RES generating solutions is installed and smart technology is deployed for optimising. Over the past decade, the Amsterdam Area has set the pace for transitioning into a greener, more sustainable future. Partners: Spectral, De Ceuvel, Aardehuizen, Schoonschip, Republica. A new report funded by the Dutch government finds that microgrid technologies could make a local “techno-economy” 90 percent self-sufficient, through the decentralised sharing of energy at the local level between multiple households. The new approach could even pave the way for “100 percent.

Amsterdam microgrids



How smart grids are enabling Amsterdam's energy transition

Over the past decade, the Amsterdam Area has set the pace for transitioning into a greener, more sustainable future. At the core of this transformation lies smart grid technology, a ...

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Welcome to the City-State of Republica

After almost four years in the ATELIER project, the demonstration site of Republica completed its buildings. Apartments are inhabited and interiors are being finalized by the new ...



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Prologis launches first European microgrid at Dutch distribution center

It is Prologis' first microgrid in Europe and a scalable blueprint for other constrained sites, with its modular design that can be tailored to local conditions.

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Microgrids , Schneider Electric Netherlands

Microgrids utilize battery systems to store electricity generated on-site, offering a more efficient alternative to traditional power systems. They can deliver stored electricity during outages or when ...



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Strategies for smart integrated decentralised energy systems

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 ...

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Schoonschip: One of the World's Most Advanced Residential

One of the most impressive features of the project is its smart micro-grid, which has enabled the community to act as their own energy supplier and grid operator thanks to a special experimental ...



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Decentralized Microgridding



Can Provide 90% of a Neighborhood

A new report funded by the Dutch government finds that microgrid technologies could make a local "techno-economy" 90 percent self-sufficient, through the decentralised sharing of ...

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These Dutch microgrid communities can supply 90% of their energy ...

A study commissioned by the Dutch Ministry of Economic Affairs and the Netherlands Enterprise Agency is monitoring the performance of three microgrid projects in Amsterdam and one ...



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Smart grids: where social and digital innovation meet

An almost classic example of a microgrid is the Amsterdam virtual power plant. Here, 50 households produce electricity with solar panels, store it in-house and trade it according to ...

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