

Expertise offer

21-12-2009

- (*) Description of the expertise offered (up to 1000 characters)**

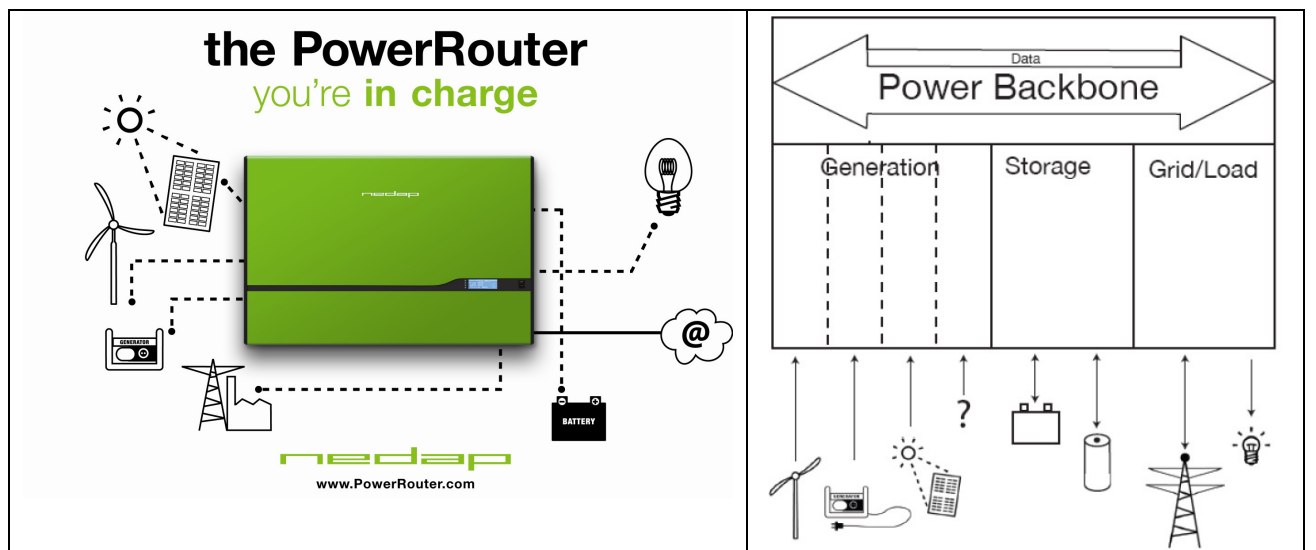
We are a Dutch based company and have developed a modular solar- and/or wind inverter for on- and off-grid application with battery back-up, called "PowerRouter".

The PowerRouter allows locally generated energy to be stored or consumed. Further, it may bring generated and stored energy to the grid on demand. Communication is via the Internet.

Nedap has over 15 year of experience in power electronics on battery charger, inverters and grid connected solar inverters. Based on this experience we have developed a patented power conversion concept.

This concept allows connection of several renewable energy sources (solar and/or wind) to be fed back into the grid. When the grid fails or is disconnected, the energy can be supplied directly to a connected load or battery pack. Stored energy can be supplied to the load or the grid at a later moment.

This way, Nedap has made renewable energies controllable and therefore suitable for use in smart grids for peak shaving, load management and grid stability.



- Keywords describing the expertise offered (up to 10 words)**

Solar- and/or wind inverter for on- and off-grid with battery back-up

- (*) Relevant topic/s in work programme (up to 3 topics)**

ENERGY.2010.7.1-1: Large-scale demonstration of smart electricity distribution networks with distributed generation and active customer participation

- Former participation in FP or other international cooperation projects**

N.A.

Organisation information

Organisation and country: N.V. Nederlandsche Apparatenfabriek "Nedap" Groenlo, The Netherlands
Type of organisation: <input checked="" type="checkbox"/> Enterprise <input type="checkbox"/> SME <input type="checkbox"/> Academic <input type="checkbox"/> Research institute <input type="checkbox"/> Public Body <input type="checkbox"/> Other:
Former participation in FP European projects? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Web address: www.powerrouter.com www.nedap.com
Description of the organisation: Nedap, founded in 1929 and based in the Netherlands, employs approximately 660 people worldwide. Our shares are listed on the Euronext stock exchange in Amsterdam since 1947. Nedap is a solution oriented, knowledge based organization with an extensive range of products, systems and services. As a company, Nedap is innovative, and entrepreneurial. With a unique capability to integrate various technologies, offering a high level of flexibility, user convenience and making Nedap products and services truly unique solutions. We have international presence, with sales offices throughout the world.

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