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A clean, simple and competitive range extended electric vehicle is on its way

A highly innovative project can prove to be a game changer in the e-mobility industry – MECc, Modular Energy Carrier concept, is a project initiated by ECOMove, Insero E-Mobility and Serenergy. The main purpose of the MECc project is to develop a clean, simple and competitive range extender for battery electric vehicles based on bio-methanol fuel cells as energy carrier. The project has just been granted funding within the Energy Technology Development and Demonstration Program.

The **MECc** project will showcase for the first time an electric vehicle with competitive price and with specifications adapted to the users' behaviors and needs, therefore having a very high market potential. The project will be managed by **Insero E-Mobility** and will involve state-of-the-art **Serenergy** technology being implemented in **ECOMove's** upcoming electric vehicle, QBEAK.

ECOMove has re-thought the e-car concept from scratch and they have developed an innovative means of transport setting new standards for design, usability and sustainability. **Serenergy's** full cell products offer simple and cost-effective air-cooled fuel cell technology with high fuel flexibility and reliable fuel cell operation under extreme temperature conditions.

High market potential through significant customer benefits

The combined concept with **fuel cells solution in a battery electric vehicle** will bring significant **end-user and customer benefits** in comparison with existing diesel generators and lead-acid battery solutions:

- A range of at least 800 km - 4 times longer than the average electric vehicle.
- A refuelling time of less than 3 minutes - similar to gasoline cars today.
- Possibility to utilise the existing Energy infrastructure and distribution system - enabling a low cost introduction and an overall cost effective fuel economy.
- Highly valuable waste heat for cabin heating/cooling with a combined efficiency above 80 %.
- A longer lifetime of the batteries due to a more stable State Of Charge (SOC).

The promise from **ECOMove** is that QBEAK will be one of the most affordable, individual, flexible, sustainable and easy to drive and park EVs on the market – all this without compromising safety or reliability.

Furthermore, the fuel cell range extended **ECOMove** QBEAK will have **significant benefits** compared to competing solutions of other plug-in hybrid electric vehicles or battery electric vehicles:

- Extended driving range
- Similar usage pattern of today's conventional vehicles
- Improved fuel economy
- Improved user comfort
- Lighter and smaller power generation module
- Minimization of local pollution
- Communication of environmental values



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Who are the companies behind the MECc project?

ECOMove designs, develops and manufactures a new and different electric vehicle (EV) based on innovative solutions and new technology, that makes it possible to fit 6 people in a Smart-sized vehicle. Founded in 2009, ECOMove is in the final homologation phase of the development of their vehicle, QBEAK, and will deliver the first vehicles in the autumn of 2012. The company has won several awards, as a result of their innovative use of materials and completely new concept for e-mobility. The most recent one is the **"2012 European EV Early-Stage Investment Opportunity Award"** awarded by the internationally renowned business research and consulting firm **Frost & Sullivan**. Read more at www.ecomove.dk

Serenergy designs, manufactures and markets fuel cell generators and battery chargers to professional users and system integrators. The company was founded in 2006 by leading researchers at the Institute of Energy Technology at AAU and their state-of-the-art Serenus product-line is based on patented technology developments that deliver a highly competitive performance. Serenergy products are utilized in a wide range of markets and applications: backup power, combined heat and power generation, mobile power generation and transport applications. Read more at www.serenergy.com

Insero E-Mobility is the Danish cluster organization working to build a bridge between the Danish and the international EV industry. The company focuses on networking and matchmaking activities across the globe, through events and network meetings. A strong emphasis is also put into R&D projects, testing new technologies and market potential. Some of this work is taking place within a unique living lab, where real families drive EVs as part of their everyday life. This provides invaluable holistic user-data based on real life experiences that can enhance the technologies in question. Insero E-Mobility has an expansionary growth strategy and is expecting increased market share in the following years. Read more at e-mobility.insero.com

More about EDDP

Energy Technology Development and Demonstration Program, EDDP, supports the development and demonstration of innovative energy technologies that enhance security of supply and realize Denmark's business potential in energy. The purpose is to promote efficient use of energy and helping to make Denmark independent of fossil energy in 2050. At the same time, projects will develop Danish business potentials for growth and employment. **EDDP** also promotes international cooperation on new energy technologies.

In the first round of applications 21 new energy technology projects, including **MECc**, and 8 international cooperation projects will be financed with a total of 150 million DKK.

- [Overview of energy technology development projects.](#)
- [Overview of international collaborative projects.](#)

Read more about EDDP at www.ens.dk

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