

## Electrical Vehicles on Samsø – Samsø, Denmark

<p><b>Title</b></p> <p>Pushing forward Electrical Vehicles towards the vision of making Samsø a Fossil Free Island</p>	<p><b>Partners involved</b></p> <ul style="list-style-type: none"> <li>- Samsø Municipality</li> <li>- Samsø Energy Academy</li> <li>- Association of EVs on Samsø</li> <li>- Danish Postal Service</li> </ul>
<p><b>Theme of Collaboration</b></p> <p>Awareness raising and stakeholders involvement</p>	<p><b>Cluster of Denmark</b></p> <p>Samsø</p>
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### Description

Samsø – the energy island in the middle of Denmark - has come up with a new vision in 2011 to become a Fossil Free Island by 2030. Samsø Municipality has approved the vision and one of the objectives is to reach a share of 50% EVs for the island's fleet by 2020.

The main challenge has been people's lack of knowledge on financing and technical matters concerning EVs. But the good experience has been the local cooperation on Samsø between the Municipality, the Energy Academy, voluntary action groups and private associations combined with support and participation from the Region and the State. So the project includes both a horizontal and a vertical approach concerning MLG in the framework and action plan concerning the vision of the Fossil Free Island. The activity is managed by the Energy Academy in cooperation with the Municipality.



*One of the private EV's owners*



*The local postal service is driving EV's*





*The Day of EV's on Samsø at the Energy Academy 11<sup>th</sup> May 2013*

## Results related to MLG processes

### Active involvement and participation at local and national level

At the local level all stakeholders in the community are involved in the project. At the national level the project is supported by the Danish Energy Agency and the Danish Postal Service. Furthermore, a national firm has cooperated with installing charging systems whose cost was covered by the Municipality and the Energy Academy. A cooperative owned supermarket has also participated in the planning process.

### A variety of financing sources

The investment of the charging stations has been shared between partners on Samsø representing the municipality and the Energy Academy.

Samsø has a tradition of working out RE and EE projects of good economy and well calculated business models for both private and municipal investments. The involvement of all stakeholders is the key factor to find win-win solutions for all participants.

### Public and private EVs already on the island

The effective MLG-model for supporting the EV-project by promoting the collaboration between the municipal and the national level has already resulted to the operation of 29 EVs in total out of 1600 vehicles (~2%) on Samsø.

8 Electric cars in the eldercare department of the Samsø Municipality, May 2012; that was the first initiative from the municipality.

- 5 Electric cars in the postal service on Samsø, May 2013; that was the result of an agreement between the Government and the Danish Postal Service, that decided to place 50 EVs in total around Denmark.
- Furthermore there are now 16 private owned EVs.

### Capacity building and knowledge transfer

To improve the knowledge of EVs on Samsø and in general the following actions have been completed:

- “Samsø – a Model Society for the Distribution of Electric Cars” project at the Energy Academy financed by the Danish Energy Agency, Jan – Dec 2013.
- “Day of the Electric Car” – exhibition at the Energy Academy, 11<sup>th</sup> May 2013.

## Lessons learnt on MLG processes

### Involvement of the local community and stakeholders – Feeling of ownership

Involving the local community and all stakeholders is important in general and this specific project can only be realised by people themselves supported by the municipality. Furthermore the participation of external partners has improved the process.

### Aiming to reasonable economy – Take advantage of existing competence

Finding a reasonable economy for the purchase of EVs is crucial and we have experienced that this has been the greatest barrier to overcome. So cooperation with the Danish Energy Agency and other partners on a national level has made it possible to inform the local community about economy and technical issues.

### Make the project part of the overall vision

Making a project based on an overall vision is a very powerful approach because the implementation can involve local, municipal, regional and national levels of governance and support a good process.

### Long-term capacity building activities

It is very important to continue capacity building and dissemination activities supporting the on-going development process and knowledge transfer concerning electric cars. In order to improve stakeholders' involvement a transport working group has now founded an Electric Car Association that can be included in the local planning process in cooperation with the Energy Academy.



### Making profit out of the EV ownership – Innovative financing

Furthermore the working group is in the process of establishing an EV cooperative with members the local EV owners and in parallel a car sharing model that can allow them to rent out their EVs to visitors in the summer season in order to avoid them carrying their conventional cars on Samsø and also create some profit supporting which can potentially support the financing of the project.

### The MLG cooperation structure

The following diagram demonstrates the different governing structures and stakeholders involved in the whole process.

