The Transport Innovation Network

The Transport Innovation Network & e-mobil BW GmbH

DANISH E-MOBILITY *a study visit to Denmark*

13th of March 2013

Location: TBC

19.00: **Informal dinner for early arrivers**

14th of March 2013

Location: Eigtveds Parkhus, Asiatisk Plads 2, Hall nr 2, 1402 Copenhagen

09:30 **Registration and coffee**

10:00 **Welcome**
by/ the Transport Innovation Network and e-mobil BW GmbH

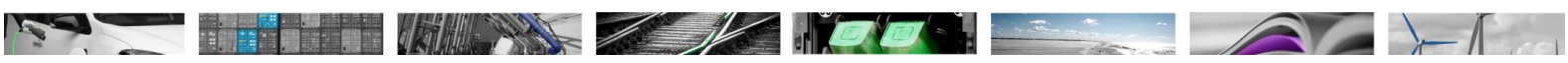
10:20 **Introduction of participating companies (max 2-3 min pr. company)**

11:10 **Coffee Break & networking**

11:40 **Short Introductions – ECO Move**
by Mogens Løkke
ECOmove is a company that possesses extensive knowledge, experience, network and competences within technologies for e-mobility. As a result of the skills to combine mechanics and electronics, the passionate team in ECOmove has - over the years - developed some unique and innovative solutions within e-mobility; solutions that benefit both users and manufacturers as well as the environment.

11:50 **Short Introductions – Vikingegaarden**
by/ Ulrik Østergaard
Vikingegaarden develops web-based monitoring solutions that create great value for customers in need of handling data to optimize their processes and operational decisions. Their software is implemented in their own hardware, which can be used in a variety of contexts within mobile and stationary monitoring.

12:00 **Short Introductions – Lithium Balance**
by/ Lars Barkler
LiTHIUM BALANCE is a leading supplier of Li-Ion battery management systems for industrial applications. They are 100% focused on battery management and provides two separate battery management platforms to ensure complete industrial application coverage. They are a full service partner capable of providing knowledge and assistance in all aspects Li-Ion battery technology implementation.



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12:10 **Short Introductions – EC Tunes**

by/ Thomas Gadegaard

ECTunes ApS is founded by experts in acoustics sound engineering and electric vehicle technology, and represents a vision to make the next generation of vehicles safer and more fun to drive. They design and manufacture innovative external warning sound systems, which can be integrated in electric and hybrid vehicles such as cars, motorcycles, scooters and electric driven trucks.

12:20 **Short Introductions – Clean Charge**

by/ Nils Dullum

CleanCharge offers the only utility scale back-end system for intelligent charging of electric vehicles in Europe. They are a part of the largest network of public charging stations from RWE throughout Europe. They can offer the new and expected standard for grid communication, which can integrate electric vehicle charging with Renewable Energy production.

12:30 **Lunch & networking**

13:30 **Strong Public Commitment – Copenhagen Municipality**

by/ Stine Helms

Copenhagen Municipality has a goal to ensure a greener city. Therefore, they have made a number of initiatives; one of them is the spread of electric vehicles. The aim is that 85% of the Citys own vehicles should be EVs/hydrogen and to get 25% EV/fossil free cars in the public fleets until 2015

13:50 **Car suppliers position - Nissan**

by/ Maria Østerby (TBC)

The Nissan organization in Denmark has approx. 15 employees and the office is located in Copenhagen. Nissan in Denmark is responsible for sales and marketing and works closely together with the local networks. Nissan publishes an electric car markets in the U.S. and Japan in 2010 and begin mass marketing of electric vehicles to consumers globally in 2012.

14:10 **Introduction to Clever**

by/ Lars Bording,

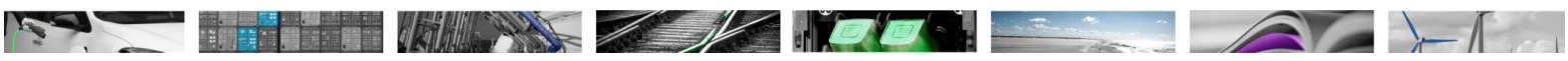
CLEVER is the leading Danish electric mobility operator, owned by the utilities SE and SEAS-NVE. CLEVER provide electric vehicles, charging stations nationwide, financing services, operation, advice and environmental optimization in relation to electric vehicles and public infrastructure. Their goal is that electric vehicles are charged intelligently using the largest possible amount of sustainable energy. Their mission is to create a strong synergy between environmental concerns and mobility by promoting electric vehicles and ensuring that they are charged intelligently, CLEVER will play an import role in balancing the grid in developing smart grid solutions in regard to EVs.

14:30 **Introduction to Better Place**

by/ Mikkel Westenholz

Better Place Global was founded by Shai Agassi in 2007 and is headquartered in Palo Alto, California. In Denmark were Better Place established in February 2009 and currently has approx. 120 employees. At this moment there are 1200 active charge points across more than 320 sites and more than 600 public points across Denmark, all charge points are managed and supervised centrally.

14:50 **Coffee Break and networking**



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15:10 **E-mobility in a smart grid context**
by/ Dong Energy (TBC) Christian to confirm
DONG Energy is one of Northern Europe's leading energy groups in Denmark. Their business is based on procuring, producing, distributing and trading in energy and related products in Northern Europe.

15:30 **Departure for charging infrastructure hands-on experience – "EV Drive the Talk"**
B2B meetings in EVs.

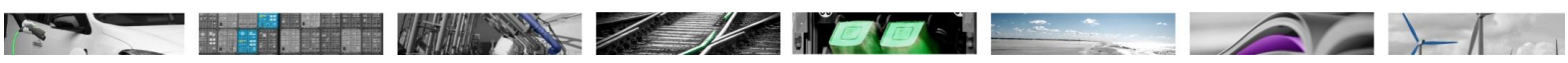
15:55 **Clever Fast Charging Station**
Location; Landgreven

16:30 **Better Place at Battery Swap Station**
Location: Dynamovej 4, 2730 Herlev

17:30 **Return for Copenhagen**

19:00 **Networking Dinner**
Location; Tivoli, Nimb Bar n'Grill

22:00: **End of Day**



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Location: Danish Technological Institute, Gregersensvej 1, 2630 Taastrup Room 80

08:30 **Departure from central Copenhagen by Mercedes Vito Electric minibuses**
Meeting point to be specified CVI/Troels to confirm)

09:30 **Introduction to the Technical University of Denmark, the Nordic Electric Vehicle Interoperability Center and the EDISON project**
by/ Thomas Meier Sørensen

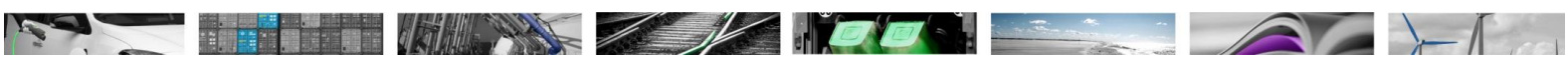
10:00 **Visit at the Nordic Electric Vehicle Interoperability Center**
The Nordic EV Interoperability Center NEVIC was established in 2012. Initial experiences, tests and concepts were developed together with the prominent EV operators on the Danish market: Better Place, Clever and CleanCharge (RWE). Today NEVIC performs interoperability tests according to the relevant standards and prestandards. The NEVIC test center is located on the DTU Electrical Engineering Department at Risø Campus. As basis for NEVIC the existing Powerlab infrastructure is used. A 630kVA supply transformer has been established as well as laboratory facilities with the required capacity to supply several charging posts and fast charging equipment. In connection with various research projects relevant knowledge of communication and system integration has been obtained and is used in the NEVIC project.

11:00 **Departure for the Danish Technological Institute**

11:30 **Visit at EnergyFlexHouse**
EnergyFlexHouse comprises two identical buildings designed as single-family houses. Each building has a size of 216 m2 gross area and has two floors.
■ In EnergyFlexLab technologies are developed and documented – this goes for components as well as for complete systems. The building is a technical development facility where elements of the building envelope, energy installations and control systems are developed and optimized as a hole. The objective is cost-effective energy technology for sustainable buildings.
■ EnergyFlexFamily is an inhabited "living lab" with main focus on the interaction between the end user and technology. All types of energy services connected to housing are included: heating and ventilation, domestic hot water, housekeeping, lighting, IT and transportation.

12:30 **Lunch and Networking**

13:30 **Introduction to the Danish Technological Institute**
by Lars Overgaard, Danish Technological Institute
The Danish Technological Institute is a self-owned and not-for-profit institution. They develop, apply and disseminate research- and technologically-based knowledge for the Danish and International business sectors. As such, they participate in development projects, which are of use to society in close collaboration with leading research and educational institutions both in Denmark and abroad.



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13:50 **Presentation – Future projects and how to move on?**

by/ The Danish Electric Vehicle Association/Morten Brønnum Andersen

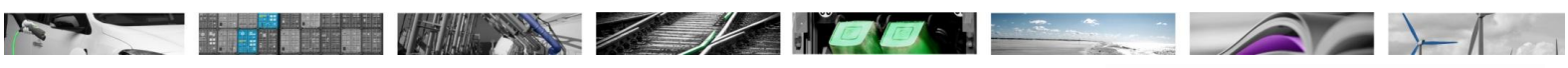
The Danish Electric Vehicle Alliance is an independent trade association under the Danish Energy Association, to assist in developing a proposal for a green reform of car taxation. The objects are to be an important player in making Denmark a pioneer country for promotion of electric vehicles. This should be done by benefiting from the synergies between the energy sector and the industries involved in introducing the electric vehicles. It is also an important object to promote and assist in networking among the members and new players.

14:10 **Plenary Discussion**

15:00 **Summery and End of day/Coffee and networking**

15:30 **Departure by bus for central Copenhagen**

For registration please contact Ms. Charlotte Vinding on +45 7731 092/ cvi@maritimecenter.dk



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