“the RekkE Vidde”

Assessing Range and Performance of Electric Vehicles in Nordic Driving Conditions
“the RekkE Vidde” Objectives

• Produce realistic performance figures for EVs attributed to Nordic driving and weather conditions

• Agree what kind of additional testing is done for EV’s apart from the regulatory test (ECER No. 101)

Create market acceptance for EV’s
Consortium

Coordination

Laboratory testing

Field testing

Test Site Sweden
Project content

WP0 Coordination and Dissemination
WP1 Duty cycle analysis
WP2 Test protocol tools
WP3 Application of the laboratory test protocol on 3 EV types
WP4 Field test of EV pool
WP1 Duty cycle analysis

Study of the Driving Cycles

Temperature & road condition variations

Typical trips & loads

TSS: Bilrøreelse
WP2 Test protocol tools

Field drive input from 80-100 ICE-vehicles will be logged

Test temperature and charging

Cabin heating & auxiliary energy use

Preheating of cabin during charge allowed at test protocol?

Vehicle load?
Useful range criteria?
Climb home range?
WP3 Application of the laboratory test protocol on 3 EV types

Energy consumption (kWh/km) from the grid and efficiency inside EV are nice to know but not part of the actual test protocol.

Useful driving range in Nordic conditions and accuracy of SOC meter are key figures to be tested!
WP4 Field test of EV pool

Vehicle Movement Database

- Battery requirements
- Vehicle requirements
- Location of charge stations
- Driving cycles for certifications
- City planning
- ....

500 ICE
20 EV

TSS Database
WP0 Dissemination

Dissemination Policy:

• Protocol development will be open for comments
• Co-operation with electric vehicle manufacturers is welcome

Time schedule:

11/2011  Lab-test protocol
07/2012  Database of lab test results
01/2013  Database of in-field test results
05/2013  Database of in-laboratory and in-field test programme results
05/2013  Final report
IDEA for Norden Energy & Transport

World most important Electric and Hybrid vehicle research conference
EVS27 will be held in June 2013 in Barcelona

Norden could use this event as place for exhibit it’s own activities and also encourage project give papers to the conference

EVS24 was held in Stavanger! EVS30 could also be in Scandinavia if we are active enough
Contact Information

Project will develop web page for dissemination purposes later 2011

Coordinator:

Arto Haakana
Development Manager, Urban Energy Efficiency
Green Net Finland
Pakkalankuja 5
FI-01510 Vantaa
tel. +358 50 3485157
e-mail: arto.haakana@greennetfinland.fi
Skype: greennet_arto
http://www.greennetfinland.fi
http://www.energyandtransport.net