

## Abstract

Christian Thiel

**Organisation :** European Commission - JRC

**Short description:**

The JRC is a Directorate General of the European Commission and provides customer-driven scientific and technical support for the conception, development, implementation and monitoring of EU policies.

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**Presentation title:** Urban market introduction perspectives of E-mobility

**Executive Summary of your Abstract:**

E-mobility has the potential to transform passenger road transport into a more sustainable option. Several initiatives are in place at European level to help overcome remaining deployment barriers. A project is currently carried out at the JRC with the goal to create a tool for identification of future e-mobility lead markets in Europe.

**Abstract:**

"The presentation will give an overview of activities at European level that intend to help overcoming deployment barriers for e-mobility in Europe. E-mobility is an important part of the European Strategy on clean and efficient vehicles. The public private partnership Green Car Initiative provides a mix of R&D funding and other instruments in order to overcome barriers for e-mobility. The Strategic Energy Technology Plan (SET-Plan) Industrial Initiatives aim at decarbonising the electricity generation and at reinforcing the electricity grids as well as increasing their intelligence. The Smart Cities Initiative is being discussed in the context of the SET-Plan. It targets an accelerated deployment of low carbon technologies in urban areas. Within the JRC we are currently designing a decision-support tool regarding the market deployment of electric vehicles and its regional prioritization in the context of the transport and energy systems. Based on an expert consultation, criteria for the prioritization are developed. They are subsequently incorporated into a GIS-based multicriteria tool with fuzzy operators, enabling an assessment at different spatial and temporal scales under different EV market penetration scenarios. Intermediate results of this ongoing work will be presented."

**Resumé:**

Christian Thiel is Scientific Officer at the Institute for Energy, Joint Research Centre of the European Commission. His current assignments include research on e-mobility as well as supporting the Information System of the SET-Plan (SETIS). Before joining the European Commission, he worked for 12 years in the European Engineering Centre of Opel, amongst others as Group Leader CO2 Strategy and European Program Engineering Manager for the Opel Ampera. Christian Thiel holds a Masters degree in Environmental Science (Geoökologie) from the Technical University Braunschweig, a bachelor degree in Biology from Université Paris VI and an undergraduate degree in Economics from the University Frankfurt (Main).

**Recommended reading:**

<http://setis.ec.europa.eu/>

Thiel C, Perujo A, Mercier A (2010): Cost and CO2 aspects of future vehicle options in Europe under new energy policy scenarios, ENERGY POLICY 38 (11); 2010. p. 7142-7151

Zaccarelli N, Zubaryeva A, Thiel C, Mercier A. (2010): Tool Investigation for the Identification of Potential Lead Markets for Electric and Plug-In Hybrid Electric Cars in Europe; <http://w3.uniroma1.it/site2010/>