

EVPC-2-12



Electric vehicles: Review of type-approval legislation and potential risks

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Technical Lead – 13th January 2010



Objectives

- Provide recommendations on the completion of EC type-approval requirements for electric vehicles
- Assess potential risks associated with electric propulsion that are not covered by legislation
- Provide recommendations on appropriate legislative action if potential risks are identified.

Project overview

Review of type-approval acts

Evaluate safety risks of electric vehicles

Review of international legislation

Task 1 - Literature review

Legislation

Industry standards

Scientific literature

Task 2 - Gathering information from stakeholders

Legislators

Manufacturers

Test houses

Review type-approval directives and regulations

- Examine whether the requirements are compatible with electric vehicles
 - Safety
 - Environmental performance
- Evaluate the safety risk of incompatible requirements
- Provide recommendations where amendments are necessary

Evaluate safety risks of electric vehicles

- Identify and evaluate potential risks not regulated in type-approval legislation
 - Battery risks
 - Vehicle handling and crashworthiness
 - Electromagnetic fields
 - Environmental risks
 - Low noise levels
- Provide recommendations on necessary legislative acts



Review legislation in other parts of the world

- Summarise legislation and standards in other regions (i.e. USA, Japan)
- Use the information as input to project tasks

Project timeline

- Project start: November 2009
- Interim report: February 2010
- Final report: June 2010

Thank you

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