

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

Presented by Dinos Visvikis 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

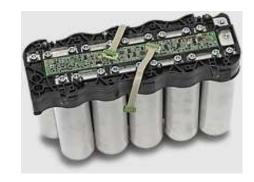
Review type-approval directives and regulations

- 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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