

# IEA/IA-HEV , EPRI/JARI PHEV Workshop

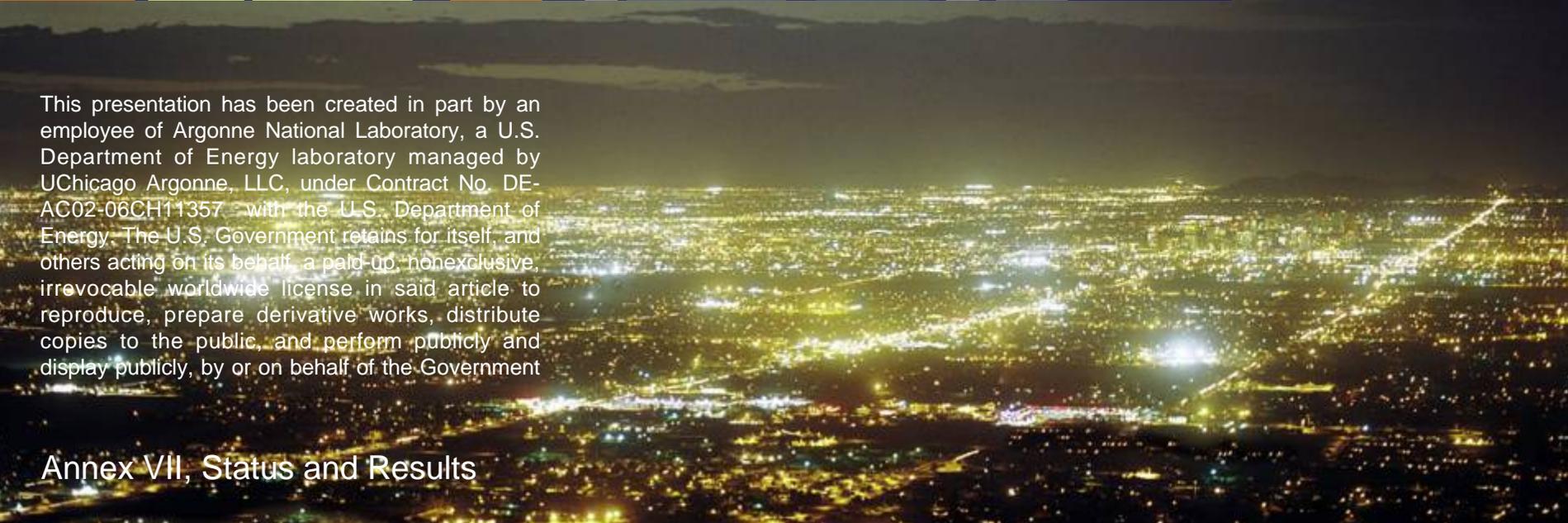
Yokohama, October 31 – November 1, 2006

## Annex VII "Hybrid Vehicles"



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Annex VII, Status and Results



Annex VII is a multi-country study implemented under (authorized by):



Chairman: Urs Muntwyler - [muntwyler@solacenter.ch](mailto:muntwyler@solacenter.ch)

# The HEV&EV Implementing Agreement has Five Existing Annexes, Four Proposed

- Running
  - Information exchange (8 nations)
  - **Hybrid vehicles (6 nations)**
  - Electrochemical systems (8 nations)
  - Electric bicycles (3 nations, 5 subtask leaders)
- Existing (Approved)
  - Clean city vehicles (Operating agent designated)
- Proposed
  - Heavy duty hybrids
  - 3 others

# Summary of Annex VII “Hybrid Vehicles” *Objective*

- Annex VII is currently in phase III  
(from November 2004 - October 2007)
- With this Annex the Implementing Agreement for Hybrid and Electric Vehicle Technologies and Programs plans to do several major international studies on the subjects of
  - Components for Hybrid Vehicles (subtask 1)
  - **“Plug-in Hybrid Vehicles” (subtask 2)**
  - Furthermore the Annex allows the participants to exchange information (subtask 3)
- The focus is on (hybrid) vehicles with four (or more) wheels. Both light-duty vehicles (e.g. passenger cars) and heavy-duty vehicles (e.g. busses and trucks) are included.

# Summary of Annex VII “Hybrid Vehicles” *Plug-in Hybrids Subtask*

- II - Plug-in Hybrid Vehicles (led by USA)

Five step investigation on:

- Vehicle requirements (EPRI, all participants)
- Merits/motivation (EPRI, all)
- Costs (TNO)
- Market (USA)
- Infrastructure (EDF)

- Co-managed by:

Dan Santini - Argonne National Laboratory (dsantini@anl.gov)

Mark Duvall - Electric Power Research Institute (mduvall@epri.com).

## Subtask II: Plug-in Hybrid Vehicles

*Subtask leader(s): USA (Argonne, EPRI)*

- **The focus of the study is on merits of plug-in hybrid vehicles and the target audience is mainly high level management.**



## Summary of Annex VII “Hybrid Vehicles” *Future work to the end of 2007*

- A complete overview report on all subtask components should come available on the end of 2007 (which is the end date of the Annex VII).
- Based on the outcome of research and discussions in subtasks I, II and III a follow up or a new Annex may be drawn up and presented to the IEA HEV/EV Implementing Agreement Executive Committee.

# Status of participation in Annex VII

## *Current participants*

- Austria (Arsenal Research)
- Belgium (VITO)
- Sweden (Lund University)
- France (INRETS & EDF)
- USA (Argonne & EPRI)
- The Netherlands

(SenterNovem, TNO = Operating Agent)



## Management tasks for the Operating Agent Report on the period April 2006 – Oct 2006

- Organization of the expert meetings  
(together with the country that hosted the meeting)
  - Agenda
  - Chair the meeting
  - Minutes
- Coordination of and participation in Plug-in Workshop
- Work for Subtask I, II and III (OA is subtask III leader)
- Contribute to IEA HEV/EV Implementing Agreement Annual report
- Attracting new countries
- Contribution to the Implementing Agreement Website

## Annex VII : Common Fund

- Common Fund for Annex VII phase III  
(November 2004 - October 2007)
  - 108,000 EUR (36,000 EUR per year for three year period)
  - 15,000 EUR unallocated, proposals were discussed at EM 6
- Budget for the first year (November 2004-October 2005)  
36,000 EUR (based on six); Realization: 29,000 EUR
- Budget for the current year (Nov. 2005-Oct. 2006)  
36,000 EUR



## Annex VII : Papers produced, 2006

- Energy Storage, Global Powertrain Congress
- **Global Prospects of Plug-in Hybrids, EVS22, Yokohama**
- Components for Hybrid Vehicles, EVS22, Yokohama



## 7th Expert Meeting: San Diego, USA, February 5 – 6, 2007

### Things To Do:

- Work on subtasks
- Make a start with overview report, concept version
- Special Topics
  - U.S. Plug-in Hybrid Tests and Simulations
- Presentation:
  - Proposed New Annex : Heavy Duty Hybrid Vehicles (VITO)

## Outlook : 3<sup>rd</sup> year, until the end of 2007

- Subtask II
  - Implement the work plan for the study  
(one or more subsequent Expert Meetings)
  - Presenting a Paper on plug-in vehicles in an USA setting
  - Presenting a Paper on plug-in vehicles in an European setting



Thank you for your attention!

# Contacts:

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