



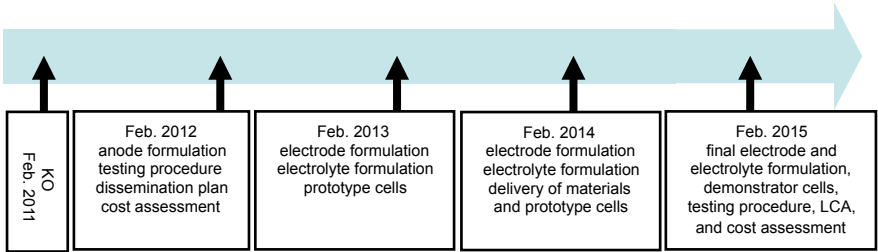
Motivation and Objectives

Development of a new Li-ion cell for traction purposes with the following characteristics:

- An energy density of at least 200 Wh/kg,
- Low costs: i.e. a maximum 150 Wh/kg,
- Meet or exceed safety standards,
- Specific power of at least 1000 W/kg (@ normal operation),
- Durability, reflected by a life time of 10 years and a cycle life of 2500 cycles,
- Operating temperature from -40°C to 50°C,
- Use of environmentally friendly and sustainable materials,
- Protecting European technology.

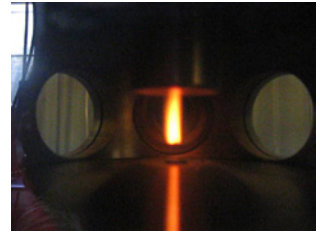
Project Plan, Milestones and Deliverables

The figure summarises the relevant milestones and deliverables so as to successfully arrive at the final stage of the project.



Technical Approach

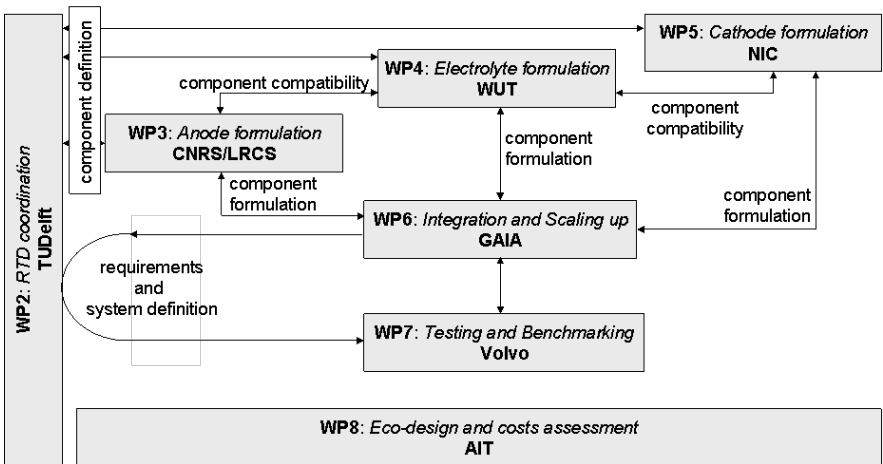
- Synthesise electrode and electrolyte materials.
- Formulate, develop, test and optimise electrode and electrolyte formulations.
- Design, develop and test emerging Li-ion cells based on the above formulations.
- Develop an adequate testing procedure.



Laser reactor flame during nano-silicon production

Achievements

The figure summarises the technical work packages and their relations including the achievements foreseen.



Budget 5.52 M€
Duration 48 months
DG Research / GC-SST TPT
Coordinator Erik Kelder, TU Delft
Partners 13 partners, among them Renault, Volvo, Spijkstaal, CEA, AIT, ZSW and GAIA

Funding 3.95 M€
Start February 2011
Contract n° CP-2010-265368
Contact emkelder@tudelft.nl