Electric Vehicle Enhanced Range, Lifetime And Safety Through INGenious battery management

De 2016-09-01 à 2020-08-31, projet en cours | EVERLASTING Site web

Détails concernant le projet

<table>
<thead>
<tr>
<th>Coût total:</th>
<th>Sujet(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUR 8 201 423,75</td>
<td>GV-8-2015 - Electric vehicles’ enhanced performance and integration into the transport system and the grid</td>
</tr>
<tr>
<td>Contribution de l'UE:</td>
<td></td>
</tr>
<tr>
<td>EUR 8 201 423,75</td>
<td></td>
</tr>
<tr>
<td>Coordonné à/au(x)/en:</td>
<td></td>
</tr>
<tr>
<td>Belgium</td>
<td></td>
</tr>
</tbody>
</table>

Objectif

Batteries are not yet the ideal energy container they were promised to be. They are expensive, fragile and potentially dangerous. Moreover the current EV cannot compete yet with traditional vehicles when it comes to driving range and flexibility. EVERLASTING intends to bring Li-ion batteries closer to this ideal by focusing on the following technology areas.
• Predicting the behavior of battery systems in all circumstances and over their full lifetime. This enables accurate dimensioning and choice of the correct battery type, leading to lower cost. It also facilitates the development of a powerful battery management system during all stages of its evolution from idea to fully tested product.
• Sensing signals beyond the standard parameters of current, voltage and temperature. This multi-sensing approach provides more varied and in-depth data on the status of the battery facilitating a pro-active and effective management of the batteries, preventing issues rather than mitigating them.
• Monitoring the status of the battery by interpreting the rich sensor data. By intelligently combining this information with road, vehicle and driver data we intend to offer accurate higher-level driver feedback. This induces a bigger trust and hence a lower range anxiety.
• Managing the battery in a proactive way, based on a correct assessment of its status. Efficient thermal management and load management results in increased reliability and safety and leads to lower overall cost through an increased lifetime.
• Defining a standard BMS architecture and interfaces and gathering the necessary support in the market. This allows an industry of standard BMS components to flourish which will result in lower cost.

Informations connexes

<table>
<thead>
<tr>
<th>Résumés de rapport</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Periodic Reporting for period 1 - EVERLASTING (Electric Vehicle Enhanced Range, Lifetime And Safety Through INGenious battery management)</td>
<td></td>
</tr>
</tbody>
</table>
**Coordinateur**

VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.  
BOERETANG 200  
2400 MOL  
Belgium  
See on map  

**Activity type:** Research Organisations  
Contact the organisation

---

**Participants**

**COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES**  
RUE LEBLANC 25  
75015 PARIS 15  
France  
See on map  

**Activity type:** Research Organisations  
Contact the organisation

**SIEMENS INDUSTRY SOFTWARE SAS**  
150 AVENUE DE LA REPUBLIQUE IMMEUBLE LE DIAGONAL  
92320 CHATILLON  
France  
See on map  

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)  
Contact the organisation

**TECHNISCHE UNIVERSITAET MUENCHEN**  
Arcisstrasse 21  
80333 MUENCHEN  
Germany  
See on map  

**Activity type:** Higher or Secondary Education Establishments  
Contact the organisation

**TUV SUD BATTERY TESTING GMBH**  
DAIMLERSTRASSE 15  
85748 GARCHING BEI MUNCHEN  
Germany  
See on map  

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)  
Contact the organisation
Contribution de l'UE: EUR 768 647,50

Contribution de l'UE: EUR 761 590

Contribution de l'UE: EUR 775 950

Contribution de l'UE: EUR 706 111,25

Contribution de l'UE: EUR 504 053,75
VDL BUS & COACH BV
DE VEST 7
5555 XP VALKENSWAARD
Netherlands
See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

VDL ENABLING TRANSPORT SOLUTIONS BV
DE VEST 11
5555 XL VALKENSWAARD
Netherlands
See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

Dernière mise à jour le 2017-08-03
Extrait le 2019-07-20

© European Union, 2019