

PROJECT

LiBAT

Development of a High Voltage Lithium BAttery

Funding: European (Horizon 2020)

Duration: Nov 2018 - Jul 2020

Status: Ongoing

Total project cost: €584,225

EU contribution: €584,225



Call for proposal: H2020-CS2-CFP07-2017-02

[CORDIS RCN : 221719](#)

Objectives:

Hybrid and electric propulsion systems for aeronautics represent an enormous potential for innovation, especially with regard to CO2 savings. In order to achieve a reliable, efficient and safe operation of such battery systems, they must be optimized in terms of energy storage capacity, electrical power, total mass and volume, Thermal requirements for materials and construction.

The main goal is to design and assemble a prototype of an entire battery pack with state-of-the-art energy density. A clear definition of the interfaces will insure the easy integration of the demonstrator into current aircraft architectures. The prototype will be developed to reach TRL4 and will be validated in laboratory conditions.

Parent Programmes:

[H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport](#)

Institute type: Public institution

Institute name: European Commission

Funding type: Public (EU)

Other programmes: JTI-CS2-2017-CfP07-SYS-02-39 Development of a High Voltage Lithium Battery

Lead Organisation:

Twt Gmbh Science & Innovation

Address:

ERNSTHALDENSTRASSE 17
70565 STUTTGART
Germany

Organisation Website:

<http://www.twt-gmbh.de>

EU Contribution: €141,125

Partner Organisations:

Lion Smart Gmbh

Address:

DAIMLERSTRASSE 15
85748 GARCHING B. MUNCHEN
Germany

EU Contribution: €443,100

Technologies:

Electric vehicle batteries (and energy management) Battery Storage System and supercapacitors
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Transport electrification, Vehicle design and

STRIA Roadmaps: manufacturing

Transport mode: Road transport

Transport sectors: Passenger transport, Freight transport

Transport policies: Environmental/Emissions aspects

Geo-spatial type: Other