Federal Ministry
Republic of Austria
Climate Action, Environment,
Energy, Mobility,
Innovation and Technology

Zero Emission Mobility – Open Call & Highlights

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Energy, Mobility, Innovation and Technology

Zero Emission Mobility

Technology-neutral focus on the decarbonization path on vehicles with exclusively locally emission-free driving parts (BEV, FCEV)

The program forms the research core for the implementation of the e-mobility offensive

Funding volume of EUR 8 million

Instruments: flagship projects, cooperative R&D projects, R&D services

https://www.ffg.at/zero-emission-mobility

Three main topics

„Zero-Emission Vehicles“

„Zero-Emission Infrastructure“

„Zero-Emission Logistics & Mobility Solutions“

Start June 1st 2022

End: October 14th 2022

Zero ConstructionLOG - Zero-Emission Construction Logistics

Construction site logistics is an unsolved problem for CO2-free city logistics. This project investigates how construction sites can use e-trucks. The practical implementation will be checked during the demo phase using a specially manufactured e-truck.

- Universität für Bodenkultur, Council für nachhaltige Logistik (CNL)
- DOKA GmbH
- Energie Ingenieure Consulting GmbH (EIC)
- i-LOG Integrated Logistics GmbH
- Renault Trucks Austria / Volvo Group Austria GmbH
- Schachinger Immobilien und Dienstleistungs GmbH & Co OG

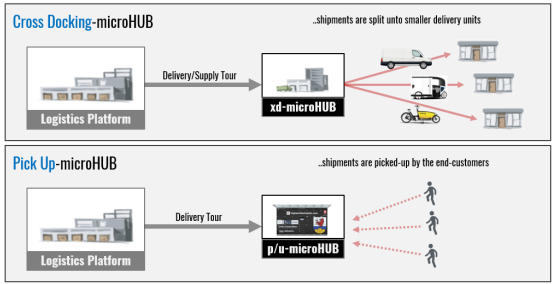
ZERO ConstructionLOG

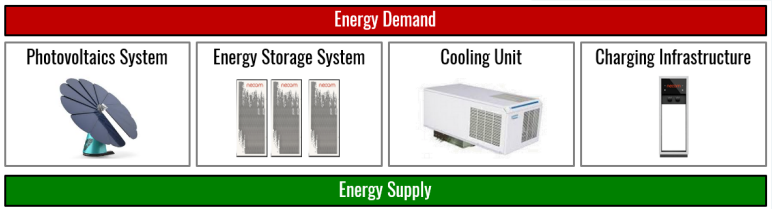
https://www.klimafonds.gv.at/themen/mobilitaetswende/serviceseiten/zem/zero-constructionlog-zero-emission-construction-logistics/

microHUB+

microHUBs+ deals with a systematic approach in which the integration of the energy sector, clean and efficient cooling, digital marketplace and emission-free logistics systems of the last mile are combined into a holistic conceptual approach. The central idea behind the concept is to bring together various technological innovations and combine them into a new, scalable and modular product.

- Consistix GmbH
- Johannes Kepler University, Linz
- neoom group holding GmbH, Freistadt
- PRODUCTBLOKS GmbH, Wien
- FEN Research GmbH, Innsbruck





https://www.klimafonds.gv.at/themen/mobilitaetswende/serviceseiten/zem/microhub-concept-development-for-energy-efficient-microhubs-for-zero-emission-last-mile-distribution/

FC4HD – Heavy-duty fuel cell road demonstrator

The FC4HD project aims to develop and demonstrate a fully-fledged emission-free 40t fuel cell commercial vehicle (EU tractor unit; 5-LH).

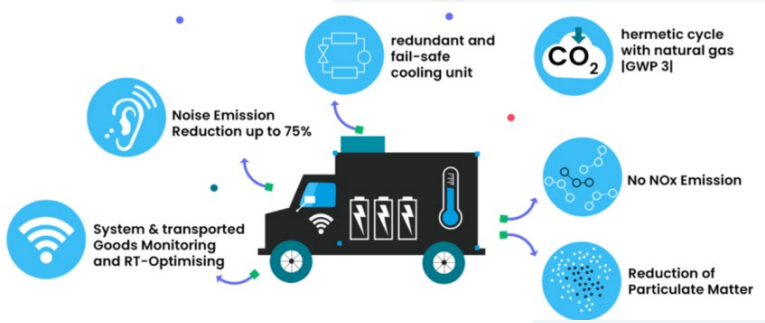
- AVL List GmbH
- MAGNA Energy Storage Systems GmbH
- SYRION – Institut für Systemische Forschung und Innovation
- Technische Universität Wien / Institut für Mechanik und Mechatronik
- WIVA P&G – Wasserstoffinitiative Vorzeigeregion Austria Power & Gas
- Energieinstitut an der Johannes-Kepler-Universität Linz
- Schenker & Co AG
- OMV Aktiengesellschaft
- HyCentA Research GmbH
- Hydrogen Europe

https://www.klimafonds.gv.at/themen/mobilitaetswende/serviceseiten/zem/fc4hd-heavy-duty-fuel-cell-road-demonstrator/

ZERO Logistics

In the ZERO Logistics project, the use of temperature-controlled electric vehicles is to be experimentally demonstrated on two different types of electric vans. For this purpose, existing e-vehicles are converted and equipped with an innovative cooling unit that is connected directly to the vehicle battery. The existing logistics system will be expanded to include a city hub and bookable smart charging zones.

- i-LOG Integrated Logistics GmbH
- Johannes Kepler University Linz
- AIT Austrian Institute of Technology GmbH
- PRODUCTBLOKS GmbH
- Energie Ingenieure Consulting GmbH
- Voltia AT GmbH
- Consistix GmbH
- Achleitner Biohof GmbH



https://www.klimafonds.gv.at/themen/mobilitaetswende/serviceseiten/zem/zero-logistics/

EMPA-Trac

Development and testing of a modular, battery-electric carrier vehicle for municipal technology and the agricultural sector with a total weight of up to 7.5 tons. The focus of development is on the modular concept, which should make it possible to build a wide variety of vehicle configurations from identical, fully integrated segments. Two-, three- or four-axis variants can be implemented.

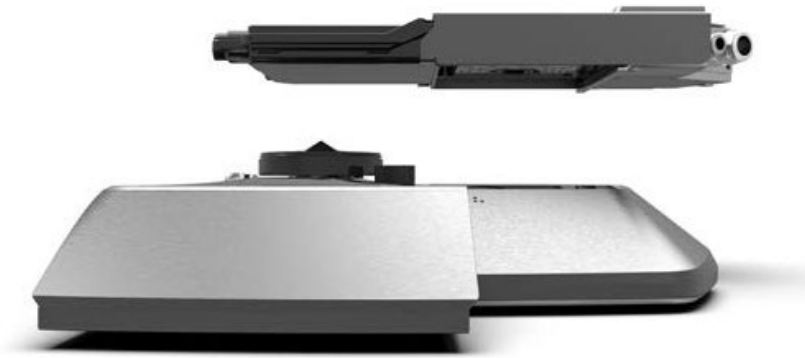
- Adolf TOBIAS GesmbH
- AIT Austrian Institute of Technology GmbH,
- Hellpower-Energy e. U.,
- TÜV Austria Automotive GmbH
- Adolf TOBIAS Gesellschaft m.b.H.

https://www.klimafonds.gv.at/themen/mobilitaetswende/serviceseiten/zem/empa-trac/

E-ASY CHARGE

In the E-ASY CHARGE project, an autonomous and fast-charging charging robot for e-trucks for the logistics sector is being developed. The charging robot is stationary at the desired charging point on the floor. This means that the vehicle unit integrated in the vehicle underbody can charge automatically at any time when the truck is parked over the charging station. A prototype is being developed and tested in a demo phase in terms of functionality and practicability with a 40-ton electric truck.

- Universität für Bodenkultur Wien / Council für nachhaltige Logistik
- VOLTERIO GmbH
- FRAMO GmbH
- VIRTUAL VEHICLE Kompetenzzentrum



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