ERA-NET Cofund

Electric Mobility Europe (EMEurope)

EVS 32 – R&I projects

Holland Pavilion

Summary R&I projects participating in EVS 32

COSTART

A COmprehensive STrategy to AcceleRate the integration of electric buses into existing public Transport systems

COSTART intends to mitigate barriers for integration of electric buses into existing public transport systems using a comprehensive approach addressing issues in two different levels using simulations and developing a decision tool. The novel combination of technical simulation and analysis of specified routes of bus operations are the basis for the development of a decision tool. Its main goal is to determine important operating parameters of e-buses for Public Transport fleet optimisation, especially during an inevitable transition period going from conventional to electric buses.

CYB

Cloud Your Bus

"Cloud Your Bus" goal is to create a data hub that provides live electric bus and charge point data to original equipment manufactures (OEM), bus operators, charging infrastructure providers and operational planning solutions, with the aim to create operational excellence in zero emission bus operations. By connecting different actors in the ecosystem agreeing to share data for the collective optimisation of the system, great efficiency gains can be realised in terms of costs, risks and time.

eMaaS

Electric Mobility as a Service

The Electric Mobility as a Service (eMaaS) project combines highly innovative technology and new business models to create the conditions for large scale adoption of Electric Vehicles. This can be achieved by enabling sharing of EVs thus optimizing their utilization and reducing cost. This combination will make EVs functionally and cost equivalent to internal combustion engine (ICE) Vehicles by replacing individual ownership of vehicles with shared EVs which are utilized on-demand, as a service. "Sharing" will become the underlying principle of enterprise mobility. In addition, eMaaS connects EV sharing services to other eco-friendly modes of mobility. Finally, eMaaS puts users at the center and works towards easily accessible solutions.

EMWF

Electric Mobility Without Frontiers

The EMWF project aims to deliver a wide variety of results centred on the acquisition, transmission and distribution of charge data of electric vehicles. At the core of the project lies the implementation of pilot sites in all four participating countries. At these sites

charging poles upgraded with camera-based sensor technology will provide accurate data on the availability of charging opportunities, independent of the chargers plug status. By providing a flexible and interoperable system to collect, bundle and distribute relevant information, the EMWF consortium will develop, implement and demonstrate a future proof system for smart city integration.

evRoaming4EU

evRoaming for electric mobility in Europe

The main goal of evRoaming4EU is to realize an efficient European market for electric vehicles charging, with easy and seamless access to information, maps, payment, and connected services also when crossing commercial or geographic borders. Providing such a standardized and interoperable information landscape for consumers is an essential precondition for further mainstreaming of electric mobility in Europe.

eVolution2G-V2G

Innovative Vehicle to Grid model for electric mobility deployment in Europe

eVolution2G-V2G is testing and validating the concept of bidirectional power flow by combining an electrical light quadricycle with an updated Battery Management System and a bi-directional battery charger able to interface in charge and discharge with the electricity network. The benefits of using a light vehicle for the vehicle to grid (V2G) paradigm are the low energy consumption and the appeal for wide spread in urban mobility. Furthermore, an Energy Management and Control System, coordinating the different stakeholders' needs/inputs and availability to participate in network balance and dispatching market will be tested.

proEME

Promoting Electric Mobility in Urban Europe

The main goal of proEME is to increase the uptake of e-mobility in Europe by building capacities, networks and tools to reach decision makers and contribute to positive investment decisions for electric vehicles, i.e. light electric vehicles (LEV), e-buses, e-trucks and plugin cars. The approaches and decision support tools developed shall serve as blueprints for further development of the EV-market.

Trolley 2.0

Trolley Systems 4 Smart Cities

Trolley 2.0 aims to improve the efficiency of public transport based on battery supported trolley buses and to integrate electro mobility services based on a smart trolley grid as backbone for charging solutions in a smart city. Trolley 2.0 will support efficient public

transport, flexible operation and simplified extension of trolley bus networks as well as combined use of the existing trolley grid infrastructure for further electrification of mobility in cities. New solutions like smart trolley grid management, incorporation of renewable energy sources (RES) into the grid and innovative bi-directional stationary energy storage concepts will help to create smart trolley grids making trolleybus systems the most energy-efficient and green systems in Europe.

Schedule of pitches R&I projects at the EVS 32 Dutch Pavilion

Project	Dates and times of presentations			
	20/05/2019		21/05/2019	
	14.45 – 15.15h	17.00 – 17.30h	13.30 – 14.00h	14.30 – 15.00h
COSTART		■		
CYB				■
eMaaS	■			
EMWF	■			
eVolution2G-V2G			■	
evRoaming4EU			■	
proEME		■		
Trolley2.0				■

For more information visit

www.electricmobilityeurope.eu

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