

PROJECT

eCharge4Drivers

Electric Vehicle Charging Infrastructure for improved User Experience

Funding: European (Horizon 2020)

Duration: Jun 2020 - May 2024

Status: Ongoing

Total project cost: €18,405,861

EU contribution: €14,424,526



Call for proposal: H2020-LC-GV-2019

[CORDIS RCN : 229529](#)

Objectives:

The sales of electric vehicles (EVs) are increasing but their drivers still encounter problems to find appropriate charging options. The vision of eCharge4Drivers is to focus on the users and substantially improve the EV charging experience within cities and on long trips, making it better than refuelling an ICE vehicle.

The work will start with wide surveys in 10 demonstration areas, to capture the a priori users' perceptions and expectations as regards the various charging options and their mobility and parking habits. Based on the survey findings and after matching with the perspective of authorities, operators and service providers, the project will develop and demonstrate in 10 areas, including metropolitan areas and TEN T corridors, easy-to-use, scalable and modular, high- and low-power charging stations, low-power DC charging stations and components with improved connection efficiency and standardised stations for LEVs. All stations will offer various direct payment methods and bigger user-friendly displays. The charging stations and all actors' back-ends will support the ISO 15118 Plug & Charge feature and will enable the standardised transfer of enhanced information in the ecosystem, thus enabling the interoperability of communication and the provision of more sophisticated services to the users before, during and after the charging process, including smart charging services. The project will demonstrate additional convenient charging options within cities, a mobile charging service, charge points at lamp posts and networks of battery swapping stations for LEVs.

Using the knowledge generated, the project will propose an EV Charging Location Planning Tool to determine the optimum mix of charging options to cover the user needs, recommendations for legal and regulatory harmonisation and guidelines for investors and authorities for the sustainability of charging infrastructure and services.

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)

Lead Organisation:

Institute Of Communication And Computer Systems

Address:

Patission
10682 Athens
Greece

Organisation Website:

<http://www.iccs.gr>

EU Contribution: €986,125

Partner Organisations:

Route220 Srl

Address:

VIA CARDUCCI 12
20123 MILANO
Italy

EU Contribution: €490,000

Avesta Battery & Energy Engineering

Address:

AV DE LEXPOSITION UNIVERSELLE 7
1083 GANSHOREN
Belgium

EU Contribution: €82,250

Robert Bosch Gmbh

Address:

Robert-Bosch Platz
70839 Gerlingen-Schillerhoehe
Germany

Organisation Website:

<http://www.bosch.com>

EU Contribution: €452,316

Volvo Personvagnar Ab

Address:

Avd 50090 Hb3S
405 31 Goteborg
Sweden

EU Contribution: €601,361

Centro Ricerche Fiat - Societa Consortile Per Azioni

Address:

Strada Torino, 50
10043 ORBASSANO (TO)
Italy

Organisation Website:

<http://www.crf.it>

EU Contribution: €602,625

Scutum Logistic SI

Address:

SANTIAGO RUSINYOL 18
08950 ESPLUGUES LLOBREGAT
Spain

EU Contribution: €218,750

Nexxtilab Sa

Address:

12 AVENUE DU SWING
4367 BELVAUX
Luxembourg

EU Contribution: €291,935

Commissariat A L Energie Atomique Et Aux Energies Alternatives

Address:

RUE LEBLANC 25
75015 PARIS 15
France

Organisation Website:

<http://www.cea.fr>

EU Contribution: €487,131

Vrije Universiteit Brussel

Address:

Pleinlaan
1050 Brussel
Belgium

Organisation Website:

<http://www.vub.ac.be>

EU Contribution: €726,818

Open Technology Services Ae

Address:

MONASTIPIOU 125
54627 THESSALONIKI
Greece

EU Contribution: €210,000

Consorzio Interuniversitario Per L'ottimizzazione E La Ricerca Operativa

Address:

VIALE RISORGIMENTO 2
40136 BOLOGNA
Italy

Organisation Website:

<http://www.icoor.it>

EU Contribution: €572,500

Greenpack Mobile Energy Solutions Gmbh

Address:

JOHANN HITTORF STRASSE 8
12489 BERLIN
Germany

EU Contribution: €402,500

Politecnico Di Bari

Address:

VIA AMENDOLA 126/B
70126 BARI
Italy

Organisation Website:

<http://www.poliba.it>

EU Contribution: €476,250

Barcelona De Serveis Municipals Sa

Address:

CL CALABRIA 66
08015 BARCELONA
Spain

EU Contribution: €214,517

Polis - Promotion Of Operational Links With Integrated Services, Association Internationale

Address:

rue du Trône 98
1050 BRUXELLES
Belgium

Organisation Website:

<http://www.polis-online.org>

EU Contribution: €261,250

Hubject Gmbh

Address:

TORGAUER STRASSE 12-15
10829 BERLIN
Germany

EU Contribution: €487,681

Idiada Automotive Technology Sa

Address:

L Albornar
43710 Santa Oliva
Spain

EU Contribution: €240,625

The University Of Sussex

Address:

SUSSEX HOUSE FALMER
BRIGHTON
BN1 9RH
United Kingdom

Organisation Website:

<http://www.sussex.ac.uk>

EU Contribution: €286,734

Chargery Gmbh

Address:

CHODOWIECKISTRASSE 14
10405 BERLIN
Germany

EU Contribution: €549,675

Mosaic Factor SI

Address:

CALLE MARINA NUM 60 PLANTA 4 PUERTA 1
08005 BARCELONA
Spain

EU Contribution: €347,550

Universita Di Pisa

Address:

N/a
56122 Pisa
Italy

Organisation Website:

<http://www.unipi.it>

EU Contribution: €155,000

Building Facility Services Parochiypiresion Anonymi Etaireia

Address:

IRODOU ATTIKOU 12A
151 24 MAROUSI
Greece

EU Contribution: €449,782

Verbund Ag

Address:

Am Hof 6A
1011 Wien
Austria

EU Contribution: €552,825

Electromaps SI

Address:

PARC TECNOLOGIC CALLE MARIE CURIE 8-14 B007
08042 BARCELONA
Spain

EU Contribution: €105,000

Grenoble-Alpes-Metropole Metro

Address:

3 RUE MALAKOFF
38031 GRENOBLE
France

Organisation Website:

<http://www.lametro.fr>

EU Contribution: €580,313

Zorlu Enerji Elektrik Uretim As**Address:**

BUYUKDERE CAD LEVENT 199 199 SISLI
34394 ISTANBUL
Turkey

EU Contribution: €373,188

European Road Transport Telematics implementation Coordination Organisation (ERTICO) - Intelligent Transport Systems & Services Europe**Address:**

Avenue Louise 326
1050 BRUSSELS
Belgium

Organisation Website:

<http://www.ertico.com>

EU Contribution: €353,763

Abb Bv**Address:**

GEORGE HINTZENWEG 81
3068 AX ROTTERDAM
Netherlands

Organisation Website:

<http://www.abb.com>

EU Contribution: €1,598,363

Powerdale**Address:**

Kerkstraat 4
1640 Sint Genesius Rode
Belgium

EU Contribution: €556,266

Smatrix Gmbh & Co Kg**Address:**

EUROPAPLATZ 2
1150 WIEN
Austria

EU Contribution: €500,143

Bayerische Motoren Werke Ag

Address:

Petuelring 130
80809 MUNICH
Germany

Organisation Website:

<http://www.bmwgroup.de>

EU Contribution: €211,292

Technologies:

Electric road vehicles
Public charging infrastructure

Development phase: Research/Invention

STRIA Roadmaps: Transport electrification, Infrastructure

Transport mode: Road transport

Transport sectors: Passenger transport, Freight transport

Transport policies: Environmental/Emissions aspects, Decarbonisation

Geo-spatial type: Urban