

PROJECT

## GreenCharge

## GreenCharge

**Funding:** European (Horizon 2020)

**Duration:** Sep 2018 - Aug 2021

**Status:** Ongoing

**Total project cost:** €5,722,980

**EU contribution:** €4,999,965



[CORDIS RCN : 215994](#)

### Objectives:

GreenCharge will empower cities and municipalities to make the transition to zero emission/sustainable mobility with innovative business models, technologies and guidelines for cost efficient and successful deployment and operation of charging infrastructure for EVs.

Inspired by ideas from sharing economy, the business models will focus on enabling the mutualisation of excess capacity of private RES, private charging facilities and the batteries of parked EVs, leveraging fair gain sharing to ensure sufficient incentives for all stakeholders to participate.

The enabling technology will coordinate the power demand of charging with other local demand and availability of local RES, leveraging load flexibility and storage capacity of local stationary batteries and parked EVs. Furthermore, it will provide user friendly charge planning, booking and billing services for EV users. This will reduce the need for grid investments to establish new charging stations, remove range anxiety and enable the sharing of already existing dedicated charging facilities for EV fleets. To implement the technology the project will integrate and extend existing systems.

### Methodology:

Pilots will be carried out in Barcelona, Bremen and Oslo to demonstrate and evaluate the proposed approach. The pilots will be extended with simulations for exploring more complex scenarios not possible to test in the pilots and to assess scalability.

The guidelines will synthesize the experience from the pilots and simulations and advice on localisation of charging points, grid investment reductions, and policy and public communication measures for accelerating uptake of electromobility and will be aligned with Sustainable Urban Mobility Plan (SUMP) processes.

The consortium includes commercial companies (also SMEs) with experience in commercialisation, and ambitious municipalities with significant experience in deploying innovative solutions. The project duration will be 36 months, with a requested funding of €5M.

### 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:** MG-4.2-2017 Supporting 'smart electric mobility' in cities

### Lead Organisation:

**Sintef**

**Address:**

Strindveien 4

7034 TRONDHEIM  
Norway

**Organisation Website:**

<http://www.sintef.no>

**EU Contribution:** €1,587,119

**Partner Organisations:**

**Esmart Systems As**

**Address:**

HAKON MELBERGS VEI 16  
1783 HALDEN  
Norway

**EU Contribution:** €344,313

**Oslo Kommune**

**Address:**

Radhuset  
0037 Oslo  
Norway

**EU Contribution:** €342,500

**Atlantis It Sl**

**Address:**

CARRER DE CASP 116 4T 3A  
08013 BARCELONA  
Spain

**EU Contribution:** €113,925

**Move About Gmbh**

**Address:**

Wiener Str. 12  
28359 Bremen  
Germany

**EU Contribution:** €155,094

**Hubject Gmbh**

**Address:**

TORGAUER STRASSE 12-15  
10829 BERLIN  
Germany

**EU Contribution:** €203,909

**Pmc Personal Mobility Center Nordwest Eg**

**Address:**

WIENER STRASSE 12  
28359 BREMEN  
Germany

**EU Contribution:** €200,900

**Millor Energy Solutions SI****Address:**

CALLE DEL BERGUEDA 45  
08223 TERRASSA  
Spain

**EU Contribution:** €73,675

**Universitete I Oslo****Address:**

Problemveien 7  
1072 OSLO  
Norway

**Organisation Website:**

<http://www.uio.no>

**EU Contribution:** €132,500

**Pno Consultants Bv****Address:**

LAAN VAN ZUID HOORN 15  
2289 DC RIJSWIJK  
Netherlands

**Organisation Website:**

<http://www.pnoconsultants.com>

**EU Contribution:** €241,063

**Freie Hansestadt Bremen****Address:**

AM MARKT 21  
28195 BREMEN  
Germany

**EU Contribution:** €302,625

**Universita Degli Studi Della Campania Luigi Vanvitelli****Address:**

Via Po 18/a  
10222 Busca  
Italy

**EU Contribution:** €250,500

**Iclei European Secretariat Gmbh****Address:**

Leopodring 3  
79098 FREIBURG  
Germany

**Organisation Website:**

<http://www.iclei-europe.org>

**EU Contribution:** €302,875

**Fundacio Eurecat****Address:**

Carrer Roc Boronat 117, 5 Planta  
8018 Barcelona  
Spain

**EU Contribution:** €394,813

**Fortum Oyj****Address:**

KEILANIEMENTIE 1  
02150 ESPOO  
Finland

**EU Contribution:** €270,813

**Motit World SI****Address:**

CALLE ALBASANZ 72 2 OFICINA 11 2  
28037 MADRID  
Spain

**EU Contribution:** €83,344

**Technologies:**

Electric road vehicles  
Public charging infrastructure

**Development phase:** Demonstration/prototyping/Pilot Production

**STRIA Roadmaps:** Transport electrification, Smart mobility and services

**Transport mode:** Road transport

**Transport sectors:** Passenger transport

**Transport policies:** Environmental/Emissions aspects, Decarbonisation

**Geo-spatial type:** Urban