HORIZON 2020

INteractive CHarging

Fact Sheet

Project Information

INCH

Grant agreement ID: 699111

Project website

DOI
10.3030/699111

Project closed

EC signature date
18 September 2015

Start date	**End date**
1 October 2015	30 September 2017

Funded under
SOCIETAL CHALLENGES - Secure, clean and efficient energy

Total cost
€ 1 266 812,50

EU contribution
€ 886 768,75

Coordinated by
ETREL SVETOVANJE IN DRUGE STORITVE DOO
Slovenia

Objective

The INteractive CHarging (INCH) project will introduce the next-generation charging station for electric vehicles (EVs), named Etrel Smartcharger. It will enable charging of an increasing number of EVs in a smart and sustainable manner, which is the only way to optimise energy use in transport and reduce related greenhouse gas emissions. In the long term, it will not be possible to use EVs without using solutions such as the Smartcharger. The Smartcharger is a new version of Etrel's current product generation, designed as a low-voltage AC charging station for use at homes, offices, and car parks. It will bring down the cost of smart charging infrastructure deployment where it matters the most (more than 90 % of charging takes place at home or at work). At the same time, it will bring the charging network to a new level, allowing each and every connected car to adjust its consumption to the needs of the energy grid.

Market adoption of the Smartcharger will be driven mostly by EV drivers who require an interactive solution that can automatically charge their car in the desired time without overloading the circuit. The Smartcharger will allow each EV user to save 140 EUR per year in charging costs and will return the investment in 3-4 years, roughly a third of its lifetime. Users will be able to share control over their charging with power companies in exchange for financial compensation. This will give the power companies an option to control EV charging load, in order to reduce it in time of peak demand or use the batteries as a reservoir for electricity from renewable sources at times of high production. With an additional investment of 1.322.000 EUR, an estimated 67M EUR of profits and 65 new jobs within the company are expected over the course of 10 years after the end of the project. The INCH project will also present an enabling technology for the integration of EV charging into European smart grids and for the provision of new services in electromobility.

Fields of science (EuroSciVoc)

engineering and technology > electrical engineering, electronic engineering, information engineering > electrical engineering > power engineering > **electric power distribution**

social sciences > social geography > transport > **electric vehicles**

engineering and technology > electrical engineering, electronic engineering, information engineering > electrical engineering > power engineering > **electric power transmission**

natural sciences > biological sciences > ecology > **ecosystems**

Programme(s)

H2020-EU.3.3. - SOCIETAL CHALLENGES - Secure, clean and efficient energy MAIN PROGRAMME

H2020-EU.2.3.1. - Mainstreaming SME support, especially through a dedicated instrument

Topic(s)

SIE-01-2015 - Stimulating the innovation potential of SMEs for a low carbon energy system

Call for proposal

[H2020-SMEInst-2014-2015](#)

[See other projects for this call](#)

Sub call

H2020-SMEINST-2-2015

Funding Scheme

[SME-2 - SME instrument phase 2](#)

Coordinator

ETREL SVETOVANJE IN DRUGE STORITVE DOO

Net EU contribution

€ 886 768,75

Total cost

€ 1 266 812,50

Address

POD JELSAMI 006
1290 Grosuplje
Slovenia

SME

Yes

Region

Slovenija > Zahodna Slovenija > Osrednjeslovenska

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#) [Website](#)
[Participation in EU R&I programmes](#)
[HORIZON collaboration network](#)

Last update: 5 August 2022

Permalink: https://cordis.europa.eu/project/id/699111