

NEWSLETTER



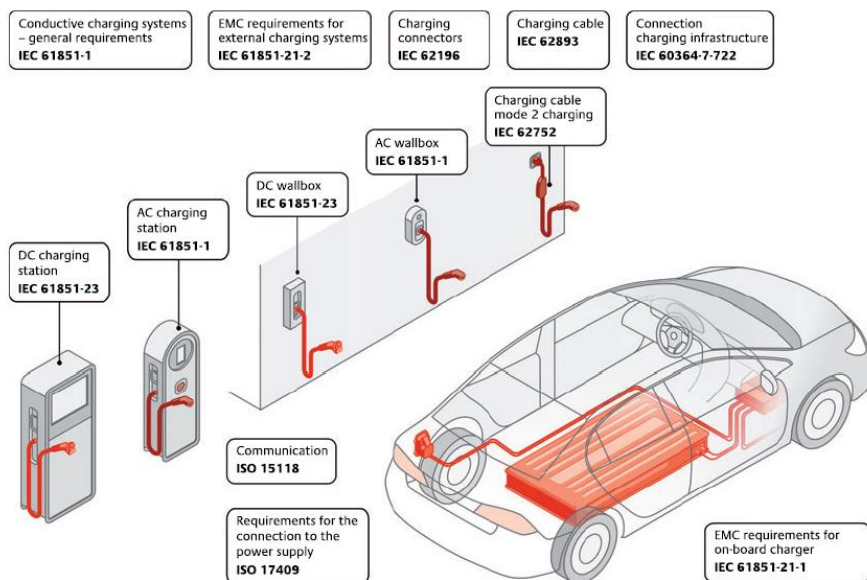
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Rolling out first e-MOTICON results: where does the e-mobility and Electric Charging Station (E-CS) stand in the Alpine Space?

e-MOTICON Partnership in the last months has been working on the current status of e-mobility and Electric Charging Stations (E-CS) diffusion in the AS. Guided by Pôle Véhicule du Futur, in September 2017 e-MOTICON presented a document on e-mobility and E-CS state of the art related to the policies, technological and business model aspects.

AS Regions derive their national and regional strategies on E-CS and e-mobility from the EU Directive 2014/94/EU on the development of alternative fuels infrastructures. Even though this policy reference establishes common standards for the infrastructure interoperability, different E-CS operators and persistent incompatibility among the networks are the main reasons why e-vehicles (EV) drivers may have the feeling they cannot use their EVs to the full potential and cross-border trips look sometimes impossible. Nowadays, there are indeed still major differences between national charging networks in the AS. The European Type 2 standard is the most common used socket in Germany, Austria, Slovenia and Italy while in France former Type 3C sockets for instance are still widely spread, since this standard was used at the beginning of the e-mobility uptake, and the E-CS equipped with these sockets have not been replaced yet. Besides, in Italy Type 3A is widely diffused for the recharging of LEVs (Light Electric Vehicles). Although only 50% of the installed E-CS comply with Type 2, this figure rises to more than 80% for E-CS above 10 kW. By the end of first semester 2017, around 10.535 publicly accessible E-CS were installed in the AS. With the area counting more than 250.800 EVs, of which 66% are BEVs, it means that, in average, there are 24 EVs per E-CS. Even if this ratio is over the average advised by the European Commission “one E-CS for ten EVs”, we cannot deny that over the past couple of years, some progresses in terms of deployment of charging stations, technical standardization and interoperability have occurred in each country. One of these progresses are roaming platforms that help the end-users to drive across the borders.

Figure 1: Standards for the wired charging of electric vehicles (source: Nationale Plattform Elektromobilität 2017)



Among charging service operators, we can distinguish between the “charging point operators” (CPOs) which are responsible for the technical operation of a charging network, for the management of the pricing, billing and roaming issue, and the so-called “electric mobility service providers” (EMP) which sell products, services, provide information to the end-users, manage the subscription to its charging service, collect payments and run a personal assistance tool. Sometimes, both charging and operation activities (CPO and EMP) are undertaken by the same company. Nevertheless, these two activities cannot be compared, since entry costs and margins are not the same. In the AS we have underlined a relatively high heterogeneity between CPOs and EMPs, in terms of charging networks’ size and their geographical coverage: some operators run a local or regional charging

network, whereas others are keen on expanding their networks on a national basis. Thanks to the business models analysis that was carried out in e-MOTICON, we are able to point out that the more power the network is delivering, the more it occurs that the operator is a specialized private company (CPO), and not a public-steered one. This occurs because municipalities and other public bodies running a charging network are more keen on installing charging points delivering a low-charging power due to the limited geographical coverage of the network. Private operators are installing E-CS with higher charging power, and most of the time with a broader geographical coverage, since they have to bill a sufficient number of customers per day to maintain their business with higher prices due to the electricity consumed over a charging session; a low-charging power would also not allow enough turnover among the customers.

News from Italy, Slovenia and Austria

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What about e-mobility in Province of Brescia?

Pier Luigi Mottinelli, President of Brescia Province: "For years we have promoted e-mobility as a real revolution in the field of mobility. This revolution brings together multiple aspects: widespread environmental awareness, smart cities and ICT development, different conception of sustainable mobility and vehicle ownership and transformation of energy production systems. Within this framework, we are quite active in multiple projects and initiatives at local, regional, national and international level, such as e-MOTICON project, involving our municipalities and stakeholders. As Province of Brescia, we aggregate and coordinate our municipalities in tenders and call for funding for the installations of charging spots, promoted by Lombardy Region and by the Ministry of Environment, with the aim to boost sustainable mobility across our territory. As a member of Lombard Mobility Cluster Association (CLM), Brescia Province's main objectives in the field of e-mobility are the development of charging network in support of the circulation of electric and hybrid plug-in vehicles, and the diffusion of an efficient infrastructure that adequately covers private and public access to recharge."

In e-MOTICON project, Province of Brescia is the coordinator of e-HUB pilot action. Eng. Raffaele Gareri director of Technological Innovation Department of Brescia Province, continued: "Thanks to our experience and cooperation with international partners, we created a model of a help-desk which will be used as a concrete tool by our municipalities and stakeholders, to share information and initiatives in the field of e-mobility and charging spots. We are now setting up the virtual tool of the help-desk < http://e-mobility.provincia.brescia.it/it_IT/>".

Within the e-HUB activities, Brescia Province coordinated a first working table with Municipalities in occasion of the final approval of project co-financed by Lombardy Region. "It was a great occasion to discuss, collect local needs and to plan together our next activities and projects...The best is yet to come!"

Pier Luigi Mottinelli President Province of Brescia
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News from Berchtesgadener Land

Information, Support, Guidance, Networking
Berchtesgadener Land is a place worth living in. To make sure it remains that way, sustainable, innovative mobility gets a big YES from the responsible authorities within the region. It is part of the regional climate concept's mobility goals. So e-mobility is one topic that is being tackled heads on to make sure region, people, companies, authorities, that is all the stakeholders, are fit for the challenge.

As a support to this development the regional economic service provider has started its work as regional information hub for e-mobility and charging stations. Fostering the exchange of knowledge and experience is one key element. International, national and regional. A first big event was held on October 9th 2017 in Piding. The aim of this event was not only to provide up-to-date information on the current development and funding possibilities. It was also a starting point for a discussion on business models, open questions and needs and the roles of different stakeholders. The next step within the region will be a closer look on an industrial area in Freilassing. Steering into a more intense discussion with the companies therein. Aiming for a better understanding of needs, challenges and potential cooperation models. In parallel companies can make an appointment for a one-on-one meeting to discuss more specific concerns arising during the plans of installing a charging station. First meetings already took place and showed that interest in the topic is high and support very welcome.

The main focus of all these activities is to provide a successful interface between companies and public authorities to help them pull in one direction when it comes to e-mobility. To place those charging stations in all the right places. To help make this Alpine homeland a place of excellence for its installed e-mobility infrastructure. Together!

Daniela Zocher, WFG BGL
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News from Klagenfurt

For many cities and regions across the AS Region exceeding the limits of air pollutants and noise is an important issue. Additional requirements for saving greenhouse gases and increasing energy efficiency is part of the 20-20-20 targets of the European Union. Klagenfurt on Lake Wörthersee assumed a pioneering role early on, and innovative measures were tested and further developed within several EU projects. Within the project CEMOBIL (CO₂-neutral E-mobility in European Cities to Reduce Air Pollutants (PM₁₀, PM_{2.5}, NO₂) and Noise Demonstrated in Klagenfurt, from 2010 to 2015; www.cemobil.eu) 50 public intelligent e-charging stations with different types of plugs (to offer greatest possible flexibility) for e-vehicles have been set up in total. The e-charging stations are located at important points of interests or destinations of trips in public space and they run on 100% green electricity.

One of our ambitions is to reinforce the linkage to public means of transport by providing the infrastructure for the "first and last mile", thus extending intermodal interfaces. E-Mobility should be a major player in a sustainable all-encompassing mobility system. Within smart-phone applications, a new field of innovative mobility services is opened up. It is vital that everyone becomes aware of his/her mobility pattern and thus to actively influence and shape it in a sustainable manner. e-MOTICON is the next logical step in this field. In our pilot activity we will implement a digital platform and a smart phone App to combine the use of e-carsharing, bike-rental system, public transport and e-charging stations in Carinthia. Only one registration will be necessary for using! First the App will be tested regional and afterwards transnational in the Alpine Space Region.

e-MOTICON is the right way, at the right time, in the right direction! With our project consortium we play an important role in planning of an unique e-charging infrastructure! We are glad to be part of this development!

Wolfgang Hafner, City of Klagenfurt
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EUROPEAN REGIONAL DEVELOPMENT FUND

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Save the Date: 25/01/2018 - Mestni trg 5, Slovenia, Tolmin – Kinogledališče

Slovenian partner Soča Valley Development Centre, supported by Alpine Pearls and Lombardy Region will hold 2nd Public Event and Workshop on Thursday 25th January 2018 in Slovenia. The events will be both focused on the Role of Public Administrations (PA) and investors in the electric charging stations (E-CS) deployment, starting from freshly approved "Strategy for alternative fuels in the Republic of Slovenia".

The morning session (9-12am) Conference "Planning the e-mobility – role of PA and investors" will be open to a wider public, while the afternoon session will be restricted to local, regional and transnational stakeholders. Organized as World Café discussions, stakeholders will go on with a more in-depth analysis and exchange their views on PAs' role with E-CS insiders. In particular, E-CS legal framework, E-CS location, E-CS management and public tenders for E-CS installations issues will be highlighted.

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e-MOTICON partners will also have a meeting on 23rd and 24th of January 2018, to discuss about project's implementation status and results achieved in the past 6 months. In Kranj, Regional development agency of Gorenjska, BSC, Ltd, will organize a site visit and introduce the results of the investment enabled within the project's pilot action called e-TRAIL. Partners will learn how monitoring and operation of electric charging stations looks like and what is the added value of such monitoring in Slovenia. Functioning of car sharing network will also be introduced.

<http://www.alpine-space.eu/projects/e-moticon/en/home>

e-MOTICON events across Project Partners' regions: what have our partners been up to?

Project Partner	Date	Location	Event
Province of Brescia	27.09.2017	Brescia	e-HUB local meeting with highlights on regional e-mobility project "Ricari-ca Valli Bresciane"
Piedmont Region	10.10.2017	Torino - Lingotto	Smart mobility World: e-HUB workshop for Municipalities
Lombardy Region	18-20.05.2017	Milano - Castello Sforzesco	Italian National E-Mobility Conference: E-mob 2017, with presentation of e-MOTICON project
Soča Valley Development Centre	19.09.2017	Kobarid	Mobility day in Kobarid
	12.09.2017	Tolmin	e-HUB local meeting with stakeholders
	20.-22.10.2017	Tolmin	Startup weekend
	13.11.2017	Stara Fužina	e-HUB meeting with stakeholders (in cooperation with BSC Kranj)
AURA-EE	15.06.2017		A réunion du COPIL d'eMOTICON
	17.10.2017		État des lieux des IRVE en Europe et interopérabilité
	14.11.2017		JOURNEE DE LA MOBILITE ELECTRIQUE
WFG (+Bayern Innovativ)	24.07.2017	Freilassing	energylab with e-MOTICON Workshop on e-HUB pilot action
	18.10.2017	Munich	Europoa vor Ort - Unsere Hausberge
	09.10.2017	Piding	e-MOTICON Workshop on e-HUB pilot action
	29.10.2017	Aix-en-Provence	FORUM du Technopôle de l'Environnement Arbois-Méditerranée,
Bayern Innovativ	08.06.2017	Schongau	bilateral meeting
	01.08.2017	Munich	bilateral meeting with Cirrantic

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