

Promote the installation of electric vehicle charging in multifamily housing

Summer 2019



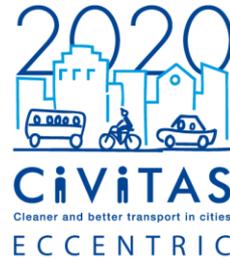
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- Charging facilities for private electric vehicles
- Technical guidelines and easy application
- Potential for huge reductions in CO₂

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 690699.

Location: Stockholm, Sweden

Organisations involved: [City of Stockholm](#)



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What is the solution?

Charging possibilities are essential for anyone who considers buying an electric vehicle (EV). For private citizens, overnight charging close to home has proven to be the number one choice. Hence, to increase the use of electric vehicles among citizens, it is important to ensure overnight charging possibilities in connection to people's homes. The aim of this measure is to provide interested citizens and housing associations with facts and practical advice in order to install charging facilities in multifamily houses. The measure thereby inspires these stakeholders with easily accessible know-how on how to organise, procure and install EV overnight charging in garages and parking areas. This will spark the installation of charging points in privately owned garages and parking areas in residential areas in the city of Stockholm.

How does it work?

Most citizens in the city of Stockholm live in multifamily houses and often rent a parking lot in connection to that, which is why this measure also focuses on rental parking spaces.

In this measure, the city of Stockholm has prepared information material on EV charging facilities which was presented in a series of workshops over the course of 2017 and 2018. It is also available online. The informational material includes checklists and step by step practical guides on how to install the facilities, how to apply for the government subsidy for local climate investments (Klimatklivet) and how to handle the administrative work around it. A short informative and thought-provoking film which presents key facts on installing charging facilities in multifamily houses and prompts interest was developed. The material also includes stories from houses already having installed chargers and the exhibition of charging equipment around Stockholm county. The seminars were offered to private households, owners of rental parking spaces and housing associations.

The activities raised great interest among the targeted stakeholders, with the first seven workshops attended by over 800 people. Housing associations and citizens can use the information material to get their tenants or their housing board interested in EVs, showing that it is neither complicated nor expensive to install a charging facility in the garage.

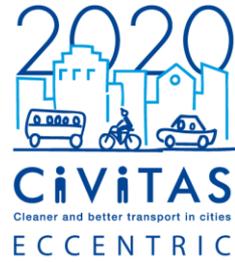
The measure has already strengthened the infrastructure needed to make EVs a realistic car choice for people living in multifamily houses. A follow-up survey after the first six seminars revealed that six months later the 200 respondents claimed to have started the process of installing over 1,000 charging units.

Expected results

For each EV that replaces a now existing (non-electric) passenger car in Stockholm, the benefits in terms emissions can be estimated at approximately two tonnes of reductions in CO₂ per year. If 2% of the cars owned by residents of multi-family homes in Stockholm would be replaced by electric cars, annual emissions would be reduced by approximately 5,400 tonnes of CO₂ and 17 tonnes of NO_x gases.

Business model

This measure receives €166,000 from CIVITAS ECCENTRIC. It was conducted in cooperation with 27 municipalities in greater Stockholm region and also involved over 10 suppliers of charging equipment. Support was also provided from the Swedish Environmental Protection Authority and the concept is now being replicated by several other Swedish regions.



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