



PRESS RELEASE

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E-MOBILITY EMISSION SAVING: THE ENEL X TOOL THAT CALCULATES CO₂ SAVINGS

- *The tool, validated by RINA, measures the CO₂ emissions avoided by the use of electric vehicles throughout Italy*

Rome, December 3rd, 2019 - An algorithm that calculates the benefits for the environment thanks to the development of electric mobility in Italy: this is the e-mobility emission saving tool by Enel X, the first to have received RINA's validation. The algorithm is the result of the conversion into saved CO₂ of the kWh provided by Enel X's charging infrastructure and the estimate of the kilometers travelled by electric vehicles, considering the equivalent data of the climate-changing emissions produced by internal combustion vehicles. Since January 2018, more than 800,000 charges have been carried out at Enel X stations; about 10 million kWh of energy is supplied by chargers and about 59 million kilometers have been travelled electric vehicle drivers.

"Thanks to this new tool that measures the CO₂ emissions avoided by electric vehicles, Enel X can offer its users an additional tool that proves the benefits of the definitive transition to sustainable mobility," said **Alessio Torelli**, head of Enel X Italia. *"A transition in progress, also made possible thanks to the work of Enel X, which is creating a widespread network of charging points which allows people to freely move about in Italy and abroad."*

The kWh supplied by the recharging points are calculated on time by the Electro Mobility Management Platform (EMM), Enel X's digital platform that constantly manages information on electric vehicle charging throughout Italy, both for public and private chargers. The data is sent by the fast (JuicePump) and quick (JuicePole and Pole Station) infrastructures equipped with an internal meter and by the connected JuiceBoxes, installed in users' homes.

The calculation of the CO₂ emissions avoided is a summary of the distance travelled by 100% electric (BEV) or hybrid Plug in (PHEV) vehicles exclusively in electric mode and of the average calculation of vehicle consumption carried out by the Polytechnic University of Milan in a recent official study. The end result is the outcome of a comparison of the kilometers obtained with the average emissions of the Italian fleet of internal combustion cars circulating, published annually by ISPRA (Istituto Superiore per la Protezione e la Ricerca Ambientale), net of the CO₂ emitted for energy production on the basis of the national energy mix.

To make the algorithm even more effective, Enel X has included as an indicator the CO₂ absorbed by trees. The result is measured by the ratio between the amount of CO₂ absorbed in a year by a tree (2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories) and that of the emissions avoided. The dashboard is available to users on the homepage of the Enel X website; the calculation of CO₂ savings per each charging session will soon be available also on the JuicePass app and on the Recharge Manager portal dedicated to businesses and public administrations. Enel X will also implement a system for displaying aggregated data on emission savings also on the displays of the JuicePole and JuicePump charging infrastructures.