

PRESS RELEASE

Electric mobility: introducing a smart charging system to avoid peaks in the distribution systems and consequent possible network tariff increases

The contents of the ARERA position paper for the hearing held today at the VI Finance Commission of the Chamber of Deputies

Milan, 19 February 2020 - Fostering smart charging, a system to encourage recharging of electric vehicles (EVs) in the most suitable hours and areas, through either price signals or capacity modulation. This would prevent a possible increase in costs due to the investments that would be required in the network in the event of simultaneous EV charging at “peak” times. Further, ARERA is engaged in exploiting the EV batteries to stabilize the system by releasing energy when needed (“vehicle-to-grid”). With the expected increase in the number of electric vehicles in circulation, we will need more energy (estimated at 2 TWh/year per million of circulating EVs), but the greatest impact could be suffered by the distribution network, due to the increase in power withdrawn at a specific time or place. Furthermore, to prevent price distortions for electro-mobility, it would be useful to shift general system charges, in whole or in part, from utility bills (thus also reducing the price for charging electric vehicles) to general taxation. These are the main contents of ARERA's hearing today at the Finance Commission of the Chamber of Deputies discussing the bill on tax reductions for the purchase of electric vehicles (“Amendments to Decree-Law no. 63 of 4 June 2013, converted, with amendments, by Italian Law no. 90 of 3 August 2013 (AC 1973)”).

“Exploiting the moments when the grid shows less congestion or coupling EV charging with local generation of electricity from renewable sources can lead to economic benefits for all users of the electric system, due to a consequent reduced need for investment to strengthen the grid, covered by tariffs applied to all customers,” explained ARERA President Stefano Besseghini. *“On this issue, perhaps more than for others, strong inter-institutional collaboration will empower us to implement this remarkable transformation. The Authority ensures its full willingness, as well as the forthcoming activation of focus groups with the main stakeholders to evaluate further regulatory interventions.”*

The ARERA position paper is published on the website www.arera.it.