# Electric vehicle infrastructure brasilia

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Moreover, for regional coverage, the S?o Paulo unit of Portugal-based electric energy company EDP is currently installing 30 rapid EV chargers along S?o Paulo state highways. According to Brazilian paper Folha, they are ultra-fast chargers able to reach 80% recharging in less than 30 minutes and can service three cars simultaneously.

The 32.9mn-real (US$8.14mn) project is being done in partnership with OEMs Volkswagen, Audi, and Porsche, multinationals Siemens and ABB, and S?o Paulo-based Electric Mobility Brasil.

To be completed by year-end 2020, it will compliment an existing network of 34 charge points spread throughout the neighboring states of Rio de Janeiro, Esp?rito Santo and Paran?, giving motorist 2,500km of driving range in the region.

Energy consumption and CO2 emissions from the transport have proved to be a huge challenge for governments worldwide. Globally, from 2008 to 2017, there was an increase of nearly 40% in energy consumption from transport sector, with road transport accounting for more than 90% (IEA, 2020). CO2 emissions from transport is a problem in Brazil as well. In 2014, the transport sector represented more than 32% of energy consumption in the country with road transportation accounting for more than 92% of that amount (EPE, 2015).

To decarbonize the transport sector, Brazil has adopted some initiatives, such as ethanol, the Program for the Brazilian automobile industry ROTA 2030, and emission control programs by the Ministry of the Environment (Costa, 2019).

Finally, the study pointed out that one feasible route to diffusion of EVs would be if the Brazilian government chooses to expand the electric car into government and private companies" fleets in which EVs can become economically beneficial and operationally attractive (Costa et al., 2020).

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