

Ecological Footprint of Electric Vehicle Charging Infrastructure

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1 Introduction

Sustainable electric transportation has the potential to yield a substantial reduction in greenhouse gas (GHG) emissions associated with the movement of people and goods. Some countries endeavour to attain full electric vehicle (EV) based transportation systems to achieve sustainable development goals. The market share of electric vehicles (EVs) was 28.8% in Norway, 6.4% in the Netherlands, 1.4% in China, and 1% in India as of January 2020 [1]. IEA energy projects estimate that by

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