Infrastructure development for electrical mobility: a Nordic perspective on national and cross-national challenges

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Infrastructure development for electric mobility: a Nordic perspective on national and cross-Nordic challenges

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Abstract:
The formulation of transport policy focuses on region-wide initiatives to promote more sustainable transportation, including electric mobility. The new vision to integrate or continue the ongoing development of electric mobility is a trans-European infrastructure network as a cost-effective and sustainable infrastructure solution. This paper identifies the national goals and compares strategies for the development of an infrastructure network for electric vehicles in Denmark and Norway. The paper focuses on the different approaches taken on the national level to support the deployment of electric vehicles. The paper suggests how Europe could support a coordinated development of electric vehicle charging infrastructure to meet the needs of the two countries and to provide an integrated Nordic electric vehicle charging infrastructure system that can be scaled up for Europe's electric vehicle market.

Introduction

The potential for electric vehicles (EVs) to contribute to the reduction of greenhouse gas emissions is widely acknowledged. However, the development of widespread electric vehicle use is dependent on the availability and reliability of charging infrastructure. The paper focuses on the different strategies taken on the national level to support the deployment of electric vehicles. The paper suggests how Europe could support a coordinated development of electric vehicle charging infrastructure.

Methodology

The paper focuses on the different strategies taken on the national level to support the deployment of electric vehicles. The paper suggests how Europe could support a coordinated development of electric vehicle charging infrastructure.

Results

The paper focuses on the different strategies taken on the national level to support the deployment of electric vehicles. The paper suggests how Europe could support a coordinated development of electric vehicle charging infrastructure.

Discussion

The paper focuses on the different strategies taken on the national level to support the deployment of electric vehicles. The paper suggests how Europe could support a coordinated development of electric vehicle charging infrastructure.

Conclusions

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