

Electric vehicle charging networks

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Type: Bachelor's Thesis, Master's Thesis

Motivation and Aim:

- Electric vehicles specially cars are expected to have an exponential growth in the next few years. This surge in demand is facilitated by improving battery density and concern for the environment.
- A major hindrance for the adoption of electric vehicles has been their range and the lack of efficient and fast charging stations. Some firms like Tesla have invested in charging stations to alleviate some of the concerns. Other car manufacturers are also drawing up plans towards this. However, without market coordination, the supply of charging stations will lead to overinvestment and inefficient use of resources which may be detrimental to the environment
- The following questions are to be addressed: What are the plans of electric vehicle manufacturers to deploy charging stations? Is opening up charging stations to rivals a good way to coordinate deployment? Does the state have a role to play in improving coordination of deployment?

The thesis has to be written in English.

References and related literature:

- Boehm, J., Bhargava, H. K., & Parker, G. G. (2020). The Business of Electric Vehicles: A Platform Perspective. *Foundations and Trends® in Technology, Information and Operations Management*, 14(3), 203-323.