

**Tomorrow's Leaders in Electric Vehicles (EEE521)**  
**Mini-Project**

**Title:** Evaluation of Carbon Dioxide Reduction Using Electric Vehicles in XXX

**Deadline of submission:** 20 November 2025

**Guideline:**

- XXX can be a region, a country, a city or their comparison.
- Find the fuel mix for electricity generation in one city or country around the world that you are interested in this study.
- Calculate the carbon dioxide emission (g/km) produced by electric vehicles in this city or country.
- Find the carbon dioxide emission (g/km) produced by traditional vehicles adopted in in this city or country.
- Discuss the trends of renewable power generation and electric vehicle penetration in in this city or country.
- Discuss possible reduction of carbon emission in in this city or country.
- Utilize figures, charts and tables to enhance data presentation.

**Schedule:**

- Group 4-5 members for each mini-project by 20 October 2025.
- Fix the title by 20 October 2025.
- Submit the report by 20 November 2025.
- Present the mini-project in lectures.

**Report Format:**

- Each mini-project report is group based and should not be more than 10 pages (including text, figures and tables) in PDF format with no compression or protection.
- Each report adopts the IEEE Transactions format and template using MS Word (<http://www.ieee.org/web/publications/authors/transjnl/index.html>)
- Quote all sources of information properly, including books, papers, magazines and internet web sites.

**Presentation Format:**

- Each mini-project presentation is group based and should be in MS PowerPoint format.
- Each presentation must be within 10 minutes.

**Useful web sites:**

- <https://www.iea.org/>
- <http://www.paulchefurka.ca/Electric%20Cars%20and%20CO2.html>