Group 11

28/10/22

**Project Proposal: Stunning Global Incline in Sales of Electric Vehicles Running on Renewable Energy**

**Research Questions (RQ):**

1. Are electric vehicles really eco-friendly and what is the significance of approaching worldwide application of electric vehicles?
2. What is the significance of focusing on the development of vehicles that run on renewable energy?
3. How will the prospect for electric vehicle development be like?

**Project Description:**

The sales of electric vehicles (EV) that run on renewable energy have shown a stunning incline on a global scale. This raises our first question on the ‘greenness’ of EVs and the significance of approaching worldwide application of them. We will search for data of the energy consumption, the carbon dioxide (CO2) emission of EVs and other possible factors affecting the ‘greenness’ of them in order to conclude on this question and find out if all countries should contribute. Our second question is on the significance of the development of EVs in China. We will explain some major reasons for the focus on EV development, including the positive impact on China’s energy transformation and the environmental problems caused by historical use of non-renewable resources, and the advantage for China to surpass other countries in the EV field. We will eventually discuss on the prospect of EV development. The reasons behind potential trends for EVs to be lighter in weight, to have larger battery capacity and to be modularized will be illustrated through data and some logical thinking. These trends could lead to an increase in the maximum range of EVs and a reduction of waste disposal of vehicles.

**Division of Labour:**

RQ1---LIN Sijia

RQ2---WEI Fanke

RQ3---HUANG Ziheng

Collaborative work for proposal, progress report, final report, poster and presentation.