



Should Zero Emission Cars Be Made Compulsory – Is It Feasible?



Student Activities

Scenario

The development of societies depends on supplies of energy. Today energy is used for three purposes, electricity, heat and movement (transportation). Most of the world's energy comes from fossil fuels like coal, oil and natural gas. Other sources like nuclear power and different renewable sources also supply energy.

Fossil fuels cause pollution. CO₂ creates the so-called greenhouse effect causing global warming. Other emissions, like SO₂, NO_x, CO and hydrocarbons, cause smog, acid rain and affect human health, especially in large cities.

To keep up the global progress and prosperity a change to a more sustainable and clean energy systems is needed. What might be feasible for powering cars ?



Your Tasks

Is it possible to have more ecological energy sources for our cars?

As a group

1. Based on a consideration of the scenario, create questions that help your understanding of the issue.
2. Undertake activities from those put forward by the teacher to answer the questions that your group sees of interest.
3. On completion of the activities, prepare to communicate the finding of your group to other groups.

As an individual

4. Present findings to other students (in a reformulated group).

As a class

5. Discuss further factors that affect the issue identified.

As a group

6. Undertake experiments related to a possible ecological friendly fuel
7. Make justified decisions on ecologically friendly cars and the claims for zero emissions. Consider whether they are feasible and should be made compulsory.

Developer: Ingo Eilks, Spyros Evlogimenos, Charitos Olympios and Nicos Valanides

Edited by: Jack Holbrook

Institution: ICASE

Country: UK
