Converting combustion engine into zero-emission

An idea and a project created by M'hammed El Merini in March 2021

Abstract

The technique allows converting existing combustion engine into a zero-emission one by changing a few parts of the ICE, by removing unnecessary parts and bringing new parts to fulfill similar functions.

The new engine would need no combustible fuel nor electrical charging, because electrical consumption is significantly reduces in comparison with conventional electrical motors used in EVs.

So far, research and calculations have been completed to:

- Calculate the performance of the system
- Simulate the behavior of the system overtime
- Determine the optimal way of operation
- Study the operation conditions (energy consumption and storage, cooling system...).

Ongoing steps are:

- Developing a MVP for steady regime operation
- Developing the electronic controls for varying regime operation

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