



Activity C2.

Energetic transition. What's the future in the use of energy.



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With the help of the technology

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Hybrid vehicles

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What is it?

A hybrid vehicle is a car an electric motor placed side by side with the internal combustion engine.

Hybridization arises from the manufacturers' need to reduce fuel consumption.



A yellow sports car is shown from a low-angle perspective, positioned on a raised, yellow, trapezoidal platform. The car's front wheel, featuring a multi-spoke alloy design, is prominent. The background is a dark, reflective surface, possibly a road or a display area. The overall scene is brightly lit, emphasizing the car's sleek design and vibrant color.

Advantages

- Better energy efficiency
- Silent running in *full electric* mode
- Tax benefits

Disadvantages

- Car weight increase due to electric motor and battery pack
- No hybrid benefits when traveling on the motorway

Electric vehicles

The Electric vehicle is a means of transport that uses an electric propulsion system for its operation that is generally powered by rechargeable batteries.



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Advantages

- Construction of renewable power plants
- Lower CO_2 emission
- Reduction of the acoustic impact in urban centers

Disadvantages

- Quite high cost to purchase
- Travel autonomy between 100 and 200 km



Smart House



What is it?

The smart house allows you to control your house remotely and automatically by means of an "intelligent" device



Pros and cons

Advantages

- More comfortable and easier management of the house
- Positive and eco-friendly impact on the environment
- There is abundant savings
- The home automation impact increases the market value of the house

Disadvantages

- A high cost for the installation of the systems
- There may be plant malfunctions
- Quite complicated to find a qualified technician for these installations