

Activity C2.

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











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CLEAN ENERGY, what is it?

A renewable energy source is an energy form that respects the natural world's resources.

It is not contaminated or depleted because it can be regenerated at the end of the cycle.







TYPES OF ENERGY

Solar Energy





Wind Power

Hydroelectricity





Biomass Energy

COST

From 2010 to the present, solar and wind power costs have continued to fall, gradually incorporating the most mature technologies such as bioenergy, geothermal and hydroelectric technologies.

Di Nicolò Federica







Wind and Solar energy are renewable energies (do not pollute the environment).

Wind energy

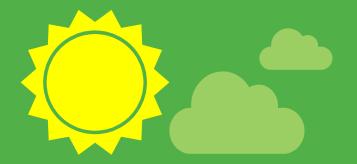
Wind energy uses the wind to produce energy through tools called wind turbines.

Solar energy

Solar energy uses the sun to produce energy through tools called solar panels.







SOLAR ENERGY

Solar energy is a collection of electromagnetic waves from the sun.



There are two ways to use solar energy:

- Heat effects, i.e. heat water or air with radiation received by panels.
- The electromagnetic effect of converting the energy of radiation into electricity.





WIND POWER

Wind power is the kinetic energy generated by moving air.

Wind is the movement of air on the earth's surface between high and low pressure areas, so the energy from the sun is the engine.

Certainly the oldest application is sail-based navigation.





Advantages





- -It does not pollute the environment
- -it is free and everyone can use it
- -wind turbines can be installed in remote areas
- -low maintenance and minimal running costs

Belletti Laura

- -It does not pollute the environment
- -reduction of carbon dioxide.
- -solar panels that can be installed onthe roofs of our houses.
- -it is an infinite energy because the sun
- will there be for other 5 billion years

Giulia Morelli





Disadvantages





Wind energy

- -Quite high installation cost.
- -The wind is relatively unpredictable so it is not possible to estimate a payback plan.
- -Large wind farms have a strong landscape impact (visual impact).
- -Noise pollution.

- -Solar energy has an inconstant,
- power depending on the season
- and on weather.
- -The istallation of a photovoltaic
- system is expensive
- -It is not always possible to install a
- private solar system.
- -enough area is required for the
- istallation of solar panels.

Federica Di Nicolò



This is a famous quote by the Italian scientist Luca Mercalli:



Il cambiamento climatico è sotto gli occhi di tutti. Il riscaldamento globale è il grande nemico generato dall'uomo, non è un'ipotesi per il futuro bensì un fenomeno già in atto.

Luca Mercalli

Climate change is in everyone's eyes.

Global warming is the great enemy generated by man, it is not a hypothesis for the future but a phenomenon already in place

Luca Mercalli

Thanks for your Erasmus+



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attention