

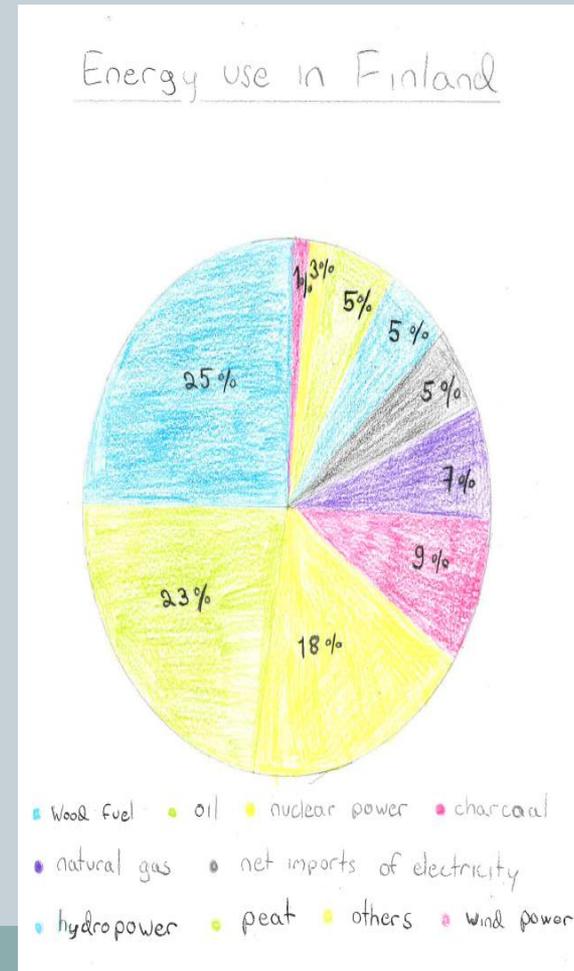


# GREEN ENERGY IN OUR COUNTRIES

**FINLAND**

## 2) examples of green energy being most commonly used

Finland has the second-highest share of renewable energy in Europe (after Sweden). The use of renewable energy sources in the production of electricity and district heat has progressed rapidly. In the last five years, the use of renewable energy sources in the production of district heat has doubled to 36 per cent.



## 2) examples of green energy being most commonly used

- Bioenergy from the forests (wood industry or wood harvesting leftovers -> burning or making bio-based fuels)
- The second largest source of renewable energy after bioenergy is hydropower.
- Many Finns have installed air-source heat pumps to their houses. Air-source heat pump absorbs heat from outside air and releases it inside the building as hot air or they can be also used as coolers. There are already as many as 730,000 heat pumps. Heat pumps are a good example of green energy.
- Burning waste to energy in waste incinerators and using the heat from the fire to make steam for generating electricity or to heat buildings.

**POLAND**

# *Examples of green energy most commonly used in Poland*

Natalia&Martyna Dudek

Małgorzata Mozoła

Kornelia Obszańska

Wiktoria Kruk

# Examples of green energy most commonly used in Poland



Solar energy - energy from the sun. Used in households and vehicles.

Water power – energy from water. Used to power water turbines or water wheels.

Wind power – energy from the wind. Used for wind turbines

Geothermal energy - thermal energy of rocks, water and ground



# DAM IN SOLINA



Province near the town  
of Solina.

The Dam in Solina is  
located in the  
Podkarpackie  
Province.

**Application:**

- flood protection
- reservoir and water  
acquisition
- recreational values



# PODLASIE SOLAR PARK



The whole project assumes the construction of five solar farms with a total capacity of around 5 MW and will occupy an area of 10 ha. Three photovoltaic farms with a total capacity of 3 MW were launched in 2014, including the installation in Kolno, which is the largest solar farm in Poland. Its capacity is 1.8 MW.

At the end of 2014, the company built a power plant in Leipzig, one of the six included in the complex. The system consists of 1120 PV panels.





Italy



Where we live there is a lot of countryside and the sun shines almost every day, so the fields are used for building solar panels.

Furthermore, on a little hill there are two big windmills.

# PORTUGAL

The most famous green energies in Portugal are **Wind Energy**, **Water Energy** and **Photovoltaic Solar Energy**.



Wind Energy, Lousã,  
Portugal



Water Energy, Castelo  
de Bode, Portugal



Photovoltaic Solar Energy,  
Braga, Portugal

# Examples

**Wind Energy:** Wind energy is the transformation of wind energy into useful energy, such as windmills to produce mechanical energy.



## Wind Energy

**Water Energy:** This process uses a turbine system that is crossed by large bodies of water, which make them move, generating an electromotive current that then crosses transformers to be transported to our homes.



# Water Energy

**Photovoltaic Solar Energy:** Energy obtained through the direct conversion of light into electricity.



# Photovoltaic Solar Energy



● **THANKS FOR WATCHING**