

**Welcome to the presentation of the
project idea:
Energy saving and production of
clean energy**



The presentation:

1. Information about the region
Westerwald and the school BBS
Betzdorf-Kirchen
2. Contents of the project idea
3. Report about our last
Comenius-project „LeOnCa“

The region Westerwald



The vocational school BBS Betzdorf-Kirchen



Fields of the school



About the project:

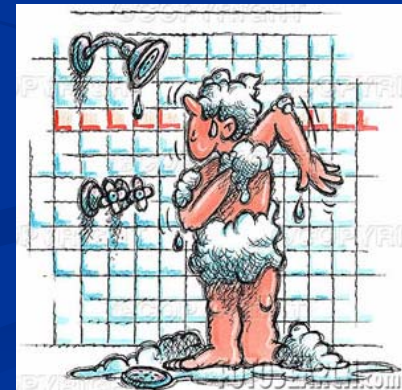
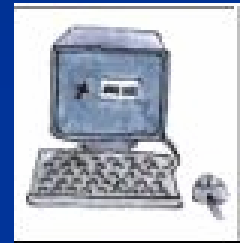
Energy saving and production of clean energy



Why do we have to save energy and what is the benefit for us?

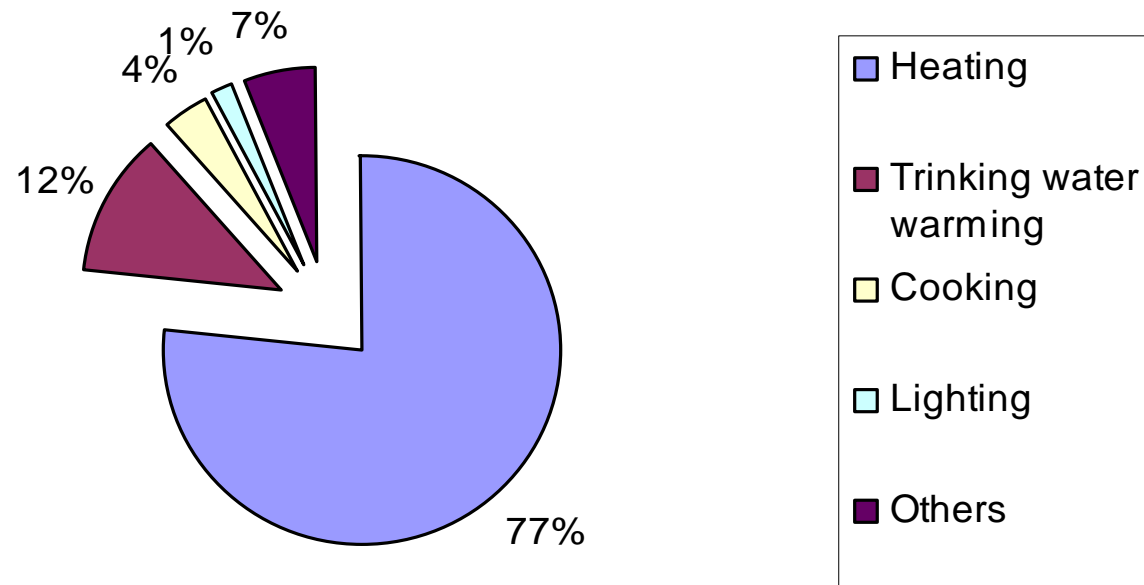
- Save money
- Reduce the CO₂ emissions
- Support the local/national economy
- ...

Where do we consume energy?



How much energy do we use in the different areas?

Average energy consumption in a household
(Germany)



How can we save energy in the different areas?

Examples:

- Improve the thermal insulation of the house
- Using a more efficient heating-system
- The application of energy saving lamps
- Purchase an energy saving car

How much energy can we save by the different measures?

Example:

The students check with an energy meter how much energy could be saved, if they switched off the stand-by-mode of the TV



How does the State promote energy saving?

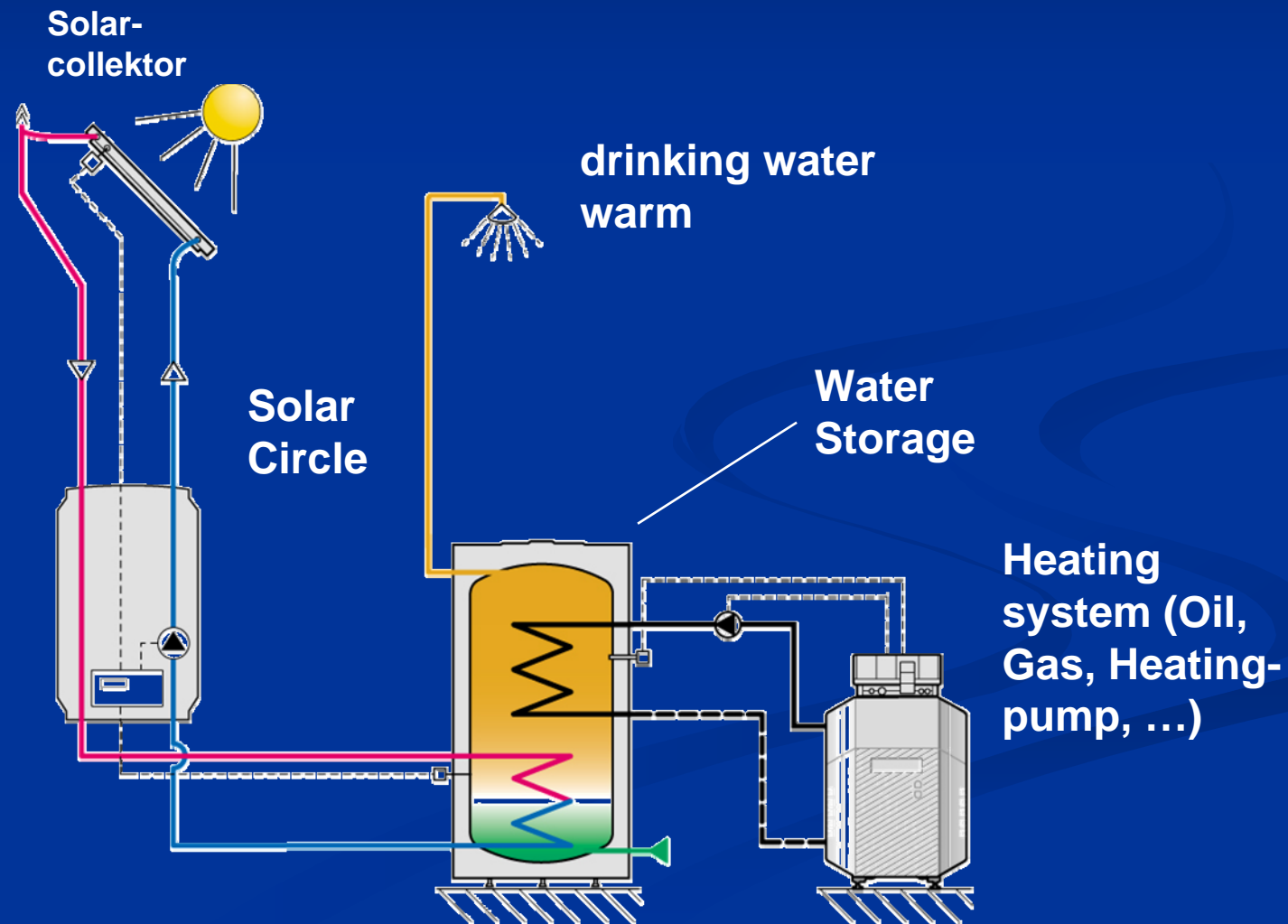
In Germany, as an example, the State spends money for the purchase of a more efficient heating-system or the improvement of the thermal insulation of the house.

The second part of
the project:
Production of clean
energy

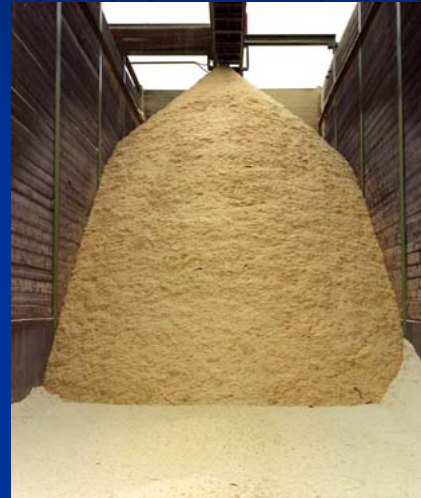
Possibilities for the production of clean energy:

- Biofuel
- Biomass
- Geothermal
- Hydropower
- Solar power
- Tidal power
- Wave power
- Wind power

Function of thermal solar technology (Drinking water warming)



Pellets production in the region Westerwald (Pressed wood cylinders)



Production capacity in two
factories:
90,000 tons per year, that is
an equivalent to 45 million
liters of heating oil



How does the State promote the production of clean energy?

The government in Germany supports the purchase of renewable energysystems with money and with the decree of laws.



Report about the
Comenius-project
„LEONCA“
(Learning at the online
campus)



End of the präsensation