



# Energy Concepts of Slovakia - 2

### 3. Biomass energy

The total electricity consumption in our country is about 30,000 GWh per year. The total potential of renewable energy sources is even higher. Biomass has the largest technical potential, more than 11,000 GWh per year.



Biomass comes from agriculture, forestry, industry and municipal waste. It seems to be the most suitable replacement of fossil fuels. As a substituent of coal, it is used in thermal power-plants for co-combustion. A lot of biogas plants have been built close to towns to produce biogas from local agricultural and municipal waste.



### 4. Geothermal energy

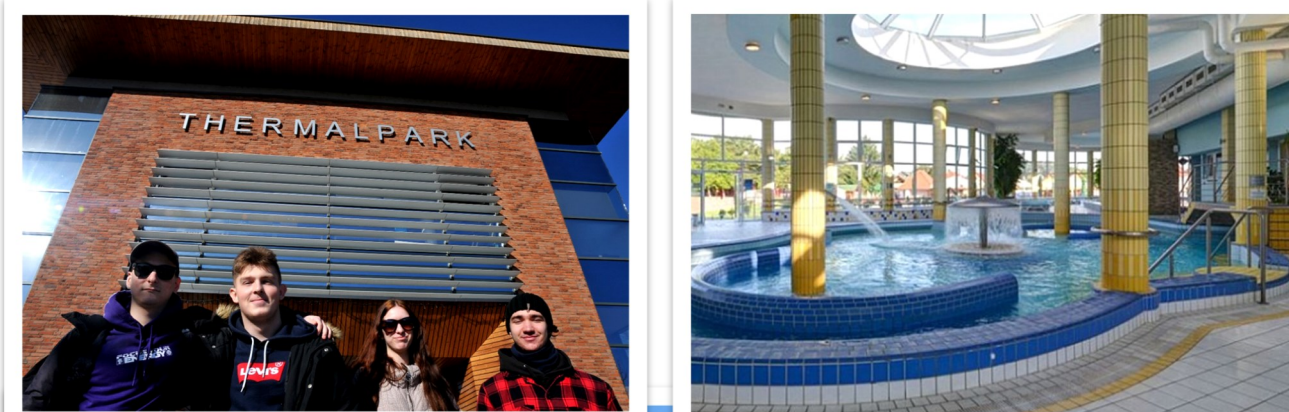
Nowadays we use less than 3% of our geothermal potential, mainly to heat flats, swimming pools and greenhouses. Geothermal district heating systems have been installed in several towns.



Two geothermal wells have been used in Dunajská Streda since 1970s. The depth of the first one is 2200 metres and the temperature of water is 92°C. It is used to heat local greenhouses. The depth of the second one is 1600 metres, the temperature of water is 54°C and the flow rate is 27 l/s. It is used in the thermal park.



Thermal park in Dunajská Streda, the well was built in 1970s.



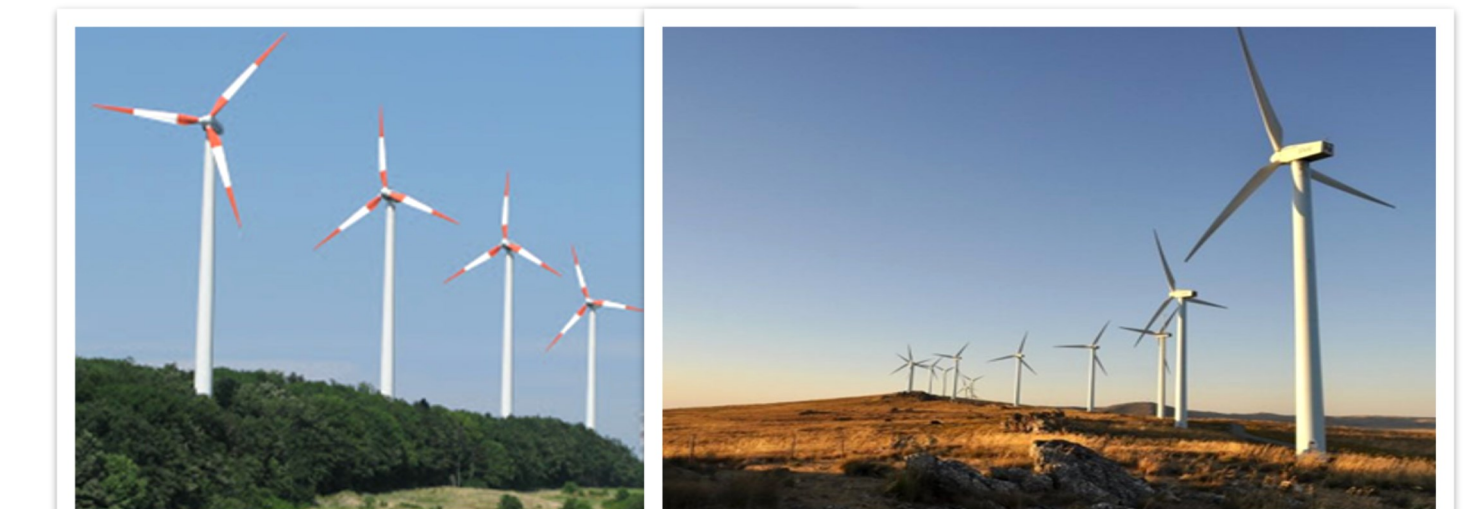
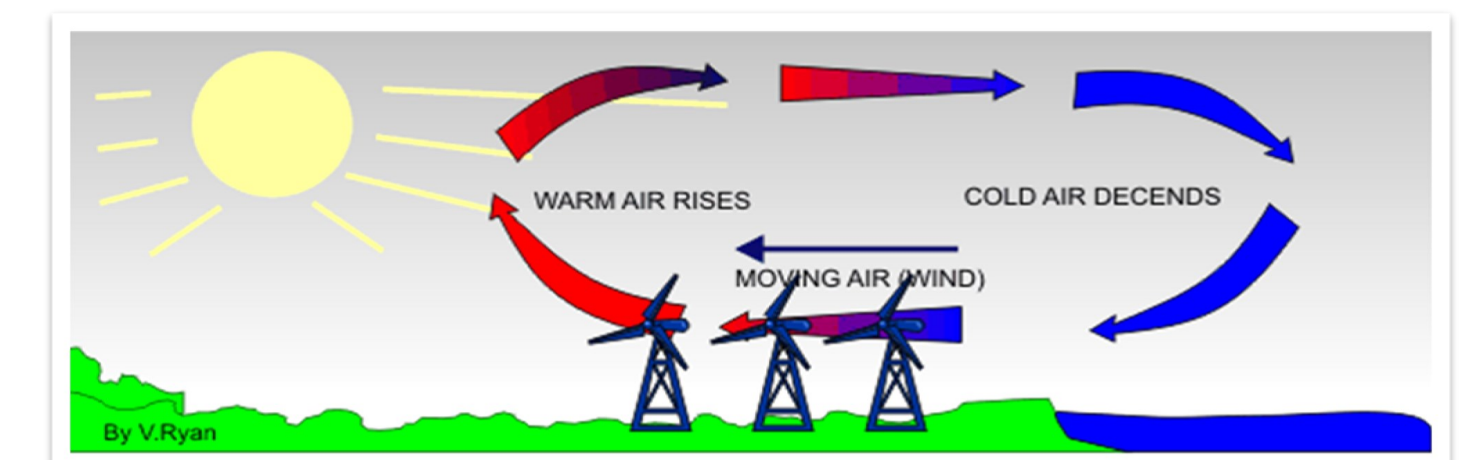
### 5. Solar energy

The number of photovoltaic power plants and the demand for installation of solar panels is growing every day.



### 6. Wind energy

There are three wind power plants in Slovakia. Wind power is quite unstable source with many fluctuations here.



There are state programmes to support renewable energy sources and various types of donations.

Many companies offer alternative energy sources, propose and install renewable energy systems and equipment to houses, flats and various buildings.

If you want to have more detailed information on energy situation in Slovakia, have a look at our presentations.

- The sources of information:
- [https://ec.europa.eu/energy/sites/ener/files/sk\\_final\\_necp\\_main\\_en.pdf](https://ec.europa.eu/energy/sites/ener/files/sk_final_necp_main_en.pdf)
  - <https://ourworldindata.org/energy/country/slovakia?country=~SVK>
  - <https://www.seas.sk/slovak-energy-sector>
  - <https://www.trade.gov/market-intelligence/slovakia-renewable-energy>
  - [https://ec.europa.eu/clima/policies/strategies/2030\\_en](https://ec.europa.eu/clima/policies/strategies/2030_en)