

#### Annotation:

Wind turbines are devices that extract energy from renewable sources of energy and transform kinetic wind energy into electrical energy. Among renewable sources belong we rank sources which have the ability to partly or fully restore themselves, without human efforts. These include solar energy, geothermal energy, hydropower, tidal, wave and biomass energy. Most renewable energy has its origin in sunlight. The topic of the wind power, I chose because I find this topic up-to-date and controversial. At a time when in the whole world are non-renewable energy sources like coal, oil and natural gas is important to realize that other than by way of renewable energy sources will be avoided in future energy sources. Bachelor thesis will include a brief history of the use of wind, types of wind power, efficiency and new technologies such as offshore wind farms. The main focus will be to compare the positives and negatives of wind power plants and their impact on nature. Some problems associated with the operation of wind energy are exaggerated, some may be minimized. The aim will be to summarize the negatives and relevant sources to determine whether the excess of permitted limits and how wind affects the landscape and population. One part will be the noise map in the vicinity of the selected wind turbines.