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**Geodetic aspects of energy clusters
in malopolska voivodship**

Abstract of the PhD Thesis

In doctoral thesis there were analyzed space attributes in GIS systems. This allowed to separate renewable energy sources area and determine the space energy values.

The results of geospatial analyses made it possible to set natural energy clusters boundaries. It should have an impact on the streamlining measures planning distributed generation based on renewable energy sources.

In chapter 2 are considered legal framework of renewable energy sources(RES) production. In this chapter are characterized diffuse renewable energy sources and general characteristics of malopolska voivodship.

In chapter 3 is drawn up renewable energy sources performance within malopolska voivodship. It is made spatial analyses and identification of the areas rich in renewable energy sources: insolation, hydropower, biomass, wind power.

In chapter 4 it is made spatial analyses where municipality and cadastral region are imposed on RES.

In chapter 5 it is made cadastral regions' classification about renewable energy sources. The natural borders RES are finally established against the background of the administrative district and municipality borders.

Key words: energy clusters, renewable energy sources, borders, space energy values.

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