

Spatial GHG Inventory on Regional Level: Accounting for Uncertainty

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Abstract

Geoinformation technology for spatial inventory of greenhouse gas on a regional level has been presented. The spatial structure of total emissions in the main sectors, according to economical activity results in some regions of Ukraine has been analyzed, and each administrative unit's contribution to summarized emissions has been estimated. A few scenarios of passing to the alternative types of energy generation are considered and respective structural change in sources of greenhouse gases are analyzed. An influence of these structural changes on the total uncertainty of greenhouse gas inventory results is studied.

Key words:

spatial GHG inventory, energy sector, regional level, uncertainty