

Assessments of acceptability/suitability of the locations for placement of different energy infrastructure (RES) in the space (supported by GIS tools)

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Keywords:

- Building culture Construction
- Closed loops Governance Planning Tools
- Ecology Energy efficiency
- Indicators Mobility Technology transfer

Target group:

- Architects Builders Citizens Craftsmen
- Home Owners Planners Politicians
- Policy Makers

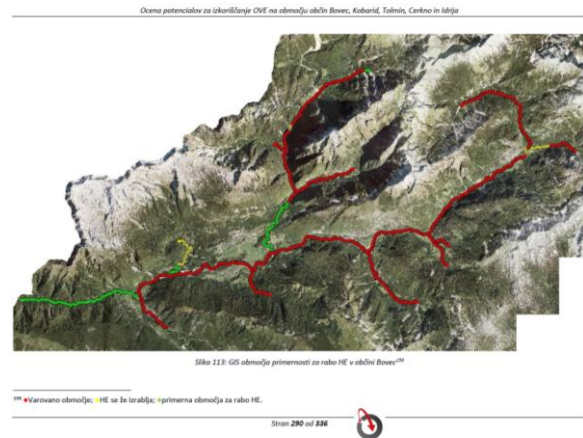
Results and outcomes (use cases):

Expected outcomes:

- main findings of the Assessments are considered in MSPs and used by planners of energy infrastructure in the pilot region

Expected results:

- improved energy self-sufficiency of the pilot region



Description:

The measure derives from the core principles of Regional Low-carbon Strategy where harnessing renewable energy sources (RES) represent an important segment. Targeted region includes municipalities of Bovec, Kobarid, Tolmin, Cerklje na Gorenjskem and Idrija.

In the phase of document preparation all relevant aspects were taken into account: existing situation in the energy field of a particular area, planning documents, municipal local energy concepts, plans for district heating systems, geographical, environmental and other databases, etc. Basic level of processing corresponded to the scale of individual settlements in all included municipalities.

The document represents a comprehensive review of potentially suitable areas for the production of energy from RES and includes: assessment of the potential heat supply from district heating systems, including micro district heating systems (for areas that are not yet included in existing and planned district heating systems), assessment of the energy demand for heating and hot water in households, farms and services, which cannot be covered with the already planned systems, assessment of the potential to generate heat and / or electricity from RES in individual systems, households, farms and services, recommendations and guidelines and complete digital graphic representation of the estimated potential (GIS).

With this measure we wanted to demonstrate the possibilities for energy self-sufficiency in the region. In addition, the result will be an important input for MSPs and also interesting for potential investors.

Main national regulations: *Energetski zakon* (law on energy) and resulting regulations, *Zakon o prostorskem načrtovanju* (law on spatial planning) and resulting regulations. Spatial planning on local level is defined in Municipal spatial plan, energy planning in Local energetic concepts, made separately for each municipality.

Relevance for inter-municipal planning: (AlpBC)

The aim that initiated this measure was to prepare professional starting points for support of inter-municipal spatial planning of energy infrastructure in the pilot region and to (consequently) support the process of transition to a low-carbon society. The document and corresponding GIS graphic will directly serve as an input for MSP and will serve as reference document for compatibility of the energy and spatial planning in the pilot region. The measure takes into account existing regulations in the field of nature and landscape protection, restrictions and hazard zones but doesn't aim at solving/minimizing conflicts between energy generation and landscape protection.

Relevance for policy goals (in Alpine Space, Europe, and/or region)

Current national legislation in the field of spatial and energy planning primarily pursues EU climate and energy policy goals 20-20-20 by 2020, based on the increase in energy-efficient construction (20%), reaching a share renewable energy in the primary energy balance (20%) and the reduction in emissions (20%). Results achieved through implementation of this measure would directly tackle the above mentioned targets and would at the same time increase the attractiveness of the living environment in the region.