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Potential and GIS analyses

Regional modelling of the value chain of energy sources



Potential and GIS Analyses

Potential and location analyses form an important basis for a variety of scientific questions. We develop AI-based algorithms for the **regional** and **climate-sensitive** transformation of the energy system by using a powerful **geographic information systems (GIS)** and **location-specific geodata**.

Supply



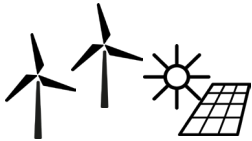
Distribution



End application



Environmental impact



- Site analysis of RES = Acronym for "Renewable Energy Sources" plants (e.g. electrical output, operational life, year of construction)
- RES and biogas potential analyses



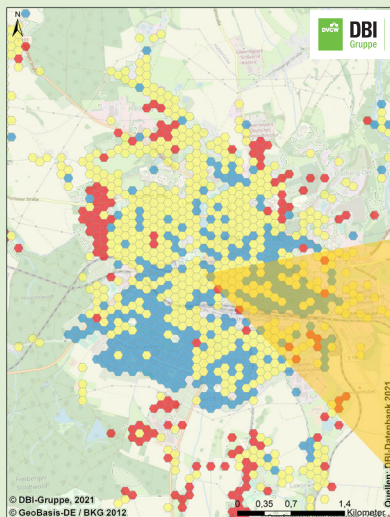
- Modelling of transport infrastructure and networks (including heat, gas and biogas)
- Logistic concepts
- Planning new charging points and filling stations



- Site specific potentials for end use of energy (including heat, electricity)
- Final energy demand in transport
- Sector coupling and holistic concepts

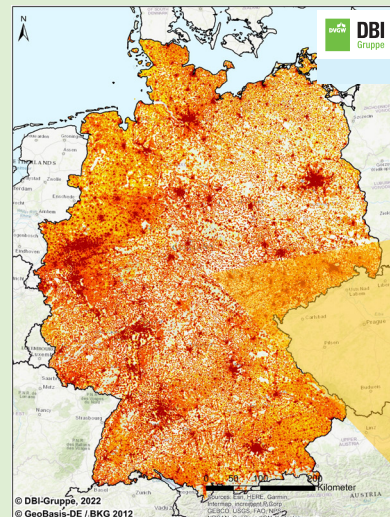


- Regionally differentiated emission analyses
- Climate protection concepts
- Municipal heating concepts



Probability of installing a private wallbox

- low
- medium
- high



Heat demand in kWh/a

- < 25.000
- 25.000 - 50.000
- 50.000 - 100.000
- 100.000 - 250.000
- > 250.000

