

# WIND POTENTIAL ASSESSMENT FOR SEVERAL CANTONS

## INITIAL POSITION

At national and cantonal level, a rethinking on energy issues has begun. Global warming and the replacement of nuclear energy require new solutions: the promotion of new renewable energies such as e. g. wind energy. To enhance the political framework, the federal government recommends to the cantons to incorporate wind energy in the cantonal structure planning and to order their own studies. The cantons therefore have a central assigned role in promoting wind energy.

## INTENTION

A wind potential study will form the base to anchor potential wind energy sites in the cantonal structure plan. This is an important requirement to foster wind energy in accordance with other interests and to prevent unwanted wind energy project developments.

## ACTIVITIES

### Surface analysis

Definition of exclusion and consideration criteria together with the client or specific authorities working groups, analysis and presentation in GIS



### Modeling of wind resources, wind map

Digital height and ground roughness model, wind data analysis, wind resource modeling with professional software



### Wind measurement

Use of LiDAR for initial and / or precision measurements and for long-term measurements, update of the wind resource modeling



### Identification of wind potential areas

Combination of surface analysis and wind resource mapping



### Evaluation of wind potential areas

Site inspections, documentation, first site-specific clarifications regarding technology and environment



### Assessment of energy potential

Proposal to assumptions such as wind energy plant placement and energy yield calculation, estimation of potential for different scenarios



### Working in an advisory group

Consisting of representatives from various cantonal authorities and interest groups, common resolution



## TIME PERIOD

since 2008, continuously

## CLIENT AND CONTACT



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