

Irrigation and Water Availability Analysis for Lucerne



The latest climate scenarios indicate a trend towards more frequent dry spells in Switzerland in the future, which will increasingly lead to water use conflicts. We assessed the current and future availability of natural water resources for the canton of Lucerne, and compared this analysis with the water demand for agricultural irrigation. From this, we derived recommendations on how the canton could issue water use permits. We also showed options for a sustainable agricultural irrigation.

Our services

- Evaluating measurement data and hydrological scenarios provided by the federal government regarding current and future low water conditions in surface waters
- Examining the impact of dry years on groundwater levels using measurement data from selected groundwater sources
- Sharpening and implementing a methodology for estimating water demand for agricultural irrigation
- Deriving conclusions and identifying possible measures to be taken

Client

Canton of Lucerne, Office of Energy and the Environment

Facts

Period 2022 - 2023

Project Country Switzerland

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