

# **Alpine Test Site Guetsch: Meteorological measurements and wind turbine performance analysis**

COST 727 Measuring and forecasting atmospheric icing on structures

Météo Suisse, Payerne / *METEOTEST* Bern / <http://www.meteotest.ch/cost727/index.html>

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## **Project Goals**

The project has 3 main goals

### 1. instrument intercomparison

All instrument types (based on different concepts) actually available to measure ice accretion (duration and/or amount) shall be included in the experiment. The result shall clarify measurement references, standards, suitable devices, comparison of different measurement principles.

2. Perform a comprehensive analysis on the wind turbine on Guetsch in order to optimize the power production and to minimize hazard to people by ice throw, as well as to minimize the wearing of the turbine by ice load.

3. Develop the knowledge about the meteorological conditions and the infrastructure on the Guetsch test site to establish a well equipped alpine test site for further research and development. An analysis of in cloud situations and of the overall meteorological situation will give input to ice accretion modelling (COST 727 WG1)