

# A sustainable and resilient energy future for Switzerland



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## THE CHALLENGES

In the coming decades, the Swiss energy infrastructure faces a massive transformation driven by the decarbonization of energy demand and by the proliferation of renewable – often distributed – energy sources. Climate change is expected to expose Switzerland to prolonged drought periods and extreme precipitation events. And information, communication and artificial intelligence technologies are expected to become increasingly interlinked with the energy system.

## OPTIONS FOR ACTION

The RECIPE consortium works to foster a sustainable and resilient energy future aligned with Switzerland's energy and climate policy goals. It studies the country's risks associated with the energy transition and climate change over the next 30 years, and proposes measures to enhance resilience.

## WHAT RECIPE EXPLORES



### HAZARDS

What hazards are the Swiss energy system exposed to?



### CRITICALITY

What energy infrastructure is most critical?



### VULNERABILITY

How vulnerable are the energy infrastructure, the economy, society, and ecosystems?



### IMPACTS AND RISKS

What are the potential impacts and risks to the energy system over the next 30 years?



### RECOMMENDATIONS TO ENHANCE RESILIENCE

What measures can enhance the resilience of Switzerland's energy transition in a changing climate?

#### RECIPE CONSORTIUM:

**ETH**zürich

**EPFL**

**n****w**

Fachhochschule  
Nordwestschweiz

**HSLU** Hochschule  
Lucern

**INFRAS**

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#### COLLABORATION PARTNERS:

**Empa**

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