

Background The Alps are particularly affected by climate change. Temperatures in this region increased at more than twice the global average rate in the last century, and further warming is already unavoidable. Consequences may include thawing of permafrost, melting glaciers and extreme events

such as heavy precipitation and long periods of drought. Climate change will bring major changes to your economy, environment and society. Adverse consequences can be reduced or avoided, and future development potential safeguarded, through adaptation. It's time to take action now!



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General

Energy

Health

Spatial
Planning

Biodiversity

Natural
Hazard

Agriculture

Water

Forestry

Tourism

Energy

WHY?

Changes in temperature, precipitation and the frequency of extreme weather events will affect future energy production, transmission and consumption in the Alps. Therefore climate change adaptation measures are required to increase the resilience of the energy sector at both the large-scale and household levels to changing climate conditions. The measures in this direction are energy independence through the production of sustainable energy, de-risking of energy supply chains and keeping energy infrastructure climate resilient.

Crafts are crucial - develop skills

- Support regional building culture in material and knowledge flows
- Develop skills and abilities to transfer re-gained vernacular techniques and materials to new construction

HOW?

Energy efficiency: Planners need to take climate change adaptation into account

- Develop sustainable and situational planning instead of standardised operations
- Reduce energy demand through higher energy efficiency

Safeguard the resilience of energy infrastructure

- Carry out resilience and climate risk assessments for the existing energy production and delivery facilities, develop risk management plans for the sector in coordination with other disaster risk management plans
- Take into account present and future climate risks, when developing new energy infrastructure





ENERGY-EFFICIENT CONSTRUCTION

The municipality of Saint-Jean-d'Arvey in the French Alps is showing how to combine support for the regional economy with the needs of climate protection. Its new multi-purpose community centre consumes almost zero energy and is the first to be built with certified timber from the French Alps. That saves on transport energy and supports the regional economy at the same time. Compared with conventional construction, the additional costs are recouped over the service life of the building as the electricity and heating bills are minimal. The centre houses a kindergarten, library and the town hall, while its open architecture makes it an ideal place for social encounter. [Further information \(de/en/fr/it/sl\)](#)



SUSTAINABLE ENERGY ACTION PLANS

A so called „Action Tool“ developed in the project SEAP helps cities and municipalities with the preparation and implementation of action plans for sustainable energy. A special focus is on how adaptation to climate change can be integrated in energy action plans. The measures also take a concept of public-private investment partnerships into account. [Further information \(en\)](#)

WHO?

You can take action now!

Together with

- National and regional administration
- Researchers and experts on climate change adaptation
- Civil society organizations such as NGOs
- Entrepreneurs



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Service Further measures, tools, practical examples and information on how to adapt to climate change can be found at www.c3alps.eu

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About C3-Alps The C3-Alps initiative is conducted by a transnational consortium of 17 partners from all Alpine countries. The partnership combines authorities responsible for climate adaptation policies on national and regional levels and expert institu-

tions that support national and European adaptation strategies. C3-Alps is coordinated by the Environment Agency Austria and is co-funded by the Alpine Space programme, through the European Regional Development Fund – European Territorial Cooperation.