

ECRAN –TAIEX workshop on risk and vulnerability
assessment and adaptation planning in the energy sector

Tirana, Albania
16 – 17 April 2015

Climate-ADAPT

General introduction

Use in energy sector

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- Climate-ADAPT thematic editor
- Member of the European Topic Centre on Climate Change Adaptation (ETC/CCA) team
- Supported European Commission in the development of EU Adaptation Strategy and its Impact Assessment (including energy sector)
- Editor for adaptation in energy sector for the Climate Adaptation Platform for the Alps

European Climate Adaptation Platform

Climate-ADAPT

- **Launched 2012** (DG CLIMA, EEA)
- **One-stop** adaptation information portal for Europe
- **Supports** governmental policy and decision makers and practitioners developing and implementing climate change adaptation strategies, policies and actions on national, regional and local levels
- **Complementary** to national and sectoral platforms
- **Quality checked** and continuously updated
- **EEA maintains**, supported by ETC/CCA



<http://climate-adapt.eea.europa.eu>



About Climate Change Adaptation in Europe

The European Climate Adaptation Platform (Climate-ADAPT) aims to support Europe in adapting to [climate change](#). It is an initiative of the European Commission and helps users to access and share information on:

- Expected climate change in Europe
- Current and future [vulnerability](#) of regions and sectors
- National and transnational adaptation strategies
- [Adaptation](#) case studies and potential adaptation options
- Tools that support adaptation planning

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→ General
→ Uncertainty guidance

→ **Adaptation support tool**
→ Guidelines for project managers

→ Case study search tool
→ Urban adaptation support tool

→ Map viewer



» The Adaptation Support Tool - Getting started

- » How is the European climate changing?
- » Why adapt to climate change?
- » Key principles for adaptation
- » How to use the Adaptation Support Tool?

- » 1. Preparing the ground for adaptation
- » 2. Assessing risks and vulnerabilities to climate change
- » 3. Identifying adaptation options
- » 4. Assessing adaptation options
- » 5. Implementation
- » 6. Monitoring and evaluation



The Adaptation Support Tool – Getting started

The aim of the Adaptation Support Tool is to assist users in developing climate change adaptation strategies and plans by providing guidance, links to relevant sources and dedicated tools (urban practitioners find here also a specific [Urban Adaptation Support Tool](#)).

The European Commission has issued [EU guidelines on developing adaptation strategies](#) as a component of the [EU strategy on adaptation to climate change](#), with the aim to support EU Member States in the process of developing, implementing and reviewing their adaptation strategies. They provide a common understanding of key features relevant to adaptation processes, building on the experience available in the EU. The steps and recommendations of the Adaptation Support Tool are aligned with the contents of these guidelines.

[Read more](#)

Guidance and tools

- » **Designing Adaptation Initiatives Toolkit**
- » **GRaBS Climate Change Adaptation Action Plan Guidance**
- » **Preparing for Climate Change: A Guidebook for Local, Regional and State Governments**
- » **UKCIP 'Adaptation Wizard'**
- » **Compendium on methods and tools to evaluate impacts of, vulnerability and adaptation to, climate change**

Publications and reports

City specific information

- » **Climate-Friendly Cities: A Handbook on the Tracks and Possibilities of European Cities in Relation to Climate Change.**
- » **Changing Climate, Changing Communities: Guide and Workbook for Municipal Climate Adaptation**
- » **NordRegio, 'Climate Change Emergencies and European Municipalities: Guidelines for Adaptation and Response'**
- » **Planning for Adaptation to Climate Change - Guidelines for Municipalities**
- » **Adaptation Compass**
- » **The Integrated Management for Local Climate**

Adaptation support tool

Aligned with EU Guidelines on developing adaptation strategies

Step 1: Preparing the ground for adaptation

(includes information on funding)

Step 2. Assessing risks and vulnerabilities to climate change

Step 3. Identifying adaptation options

Step 4. Assessing adaptation options

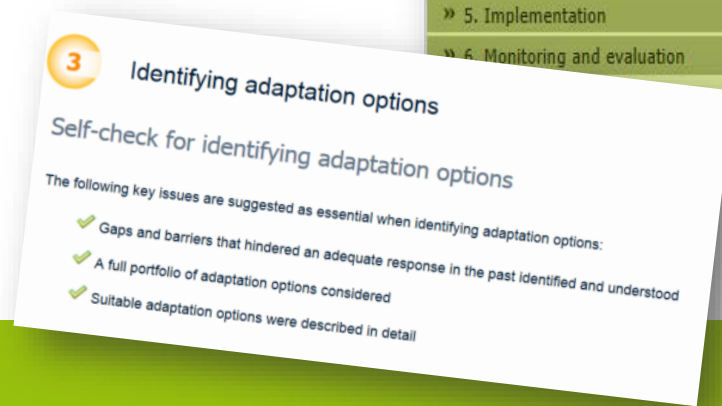
Prepare a strategy document and get political approval

Step 5: Implementation

Develop an action plan

Step 6: Monitoring and evaluation

Self-check check-list for each step





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Information on countries adaptation strategies and actions



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→ General → Countries → Transnational regions → Cities and towns



Choose a country ▼

France

Legal framework | Assessments | **Priority sectors** | Local actions | Summary | Contact

Responsibility for climate change adaptation is split between national, regional and local levels.

- The creation of a National Observatory for the Effects of Global Warming ([ONERC](#)) in 2001, tasked specifically with adaptation to climate change, followed by the adoption of the [National Adaptation Strategy in 2006](#), marked the beginning of French government activity in the adaptation field;
- Programme law 2009-967 of 3 August 2009, relating to the implementation of the Grenelle Environment Forum, makes provision in Article 42 for "the preparation of a National Adaptation Plan for a variety of areas of activity by 2011". The first [National Adaptation Plan](#) was published on 20 July 2011 and aims to present concrete measures designed to prepare for and exploit new climatic conditions in France. The Plan covers a five-year period (2011-2015). 20 key fields are identified for action. More than 90 % of actions have started and some like [Drias les futur du climat](#) are completed.
- Regional adaptation guidelines are defined in Regional Climate, Air and Energy Schemes (SRCAE) and local adaptation actions are designed within Territorial Climate-Energy Plans ([PCET](#)), under the provisions of Law 2010-788 of 12 July 2010.

Some French overseas communities have a specific competency regarding environmental policy (e.g. French Polynesia, New Caledonia). Thus adaptation policy falls under their local decision making process. French Polynesia is currently developing its strategic climate plan with specific provisions for adaptation issues.

In November 2009, France submitted its [fifth national communication](#) to the UNFCCC, with a significant part dedicated to adaptation issues and policies.



European Commission



European Environment Agency

Information on countries adaptation strategies and actions



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France

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Heat wave impact on elderly persons during summer 2003 triggered the establishment of an early warning and crisis management scheme called "Plan Canicule". Since 2004, this forerunner action is updated each year. Despite it was not designed specially for climate change adaptation, it contributes directly to reduce vulnerability to climate extreme events and future climate constraints are now mainstreamed in their procedures.

Adaptation is a cross cutting issue and many sectors are interlinked, therefore the National adaptation plan adopted in France does not prioritize any specific sector. Nevertheless, within the 20 vulnerable fields identified in the plan, concrete measures have been prioritised to be implemented in the next five years. Other identified actions have been postponed for a next phase.

On-going governmental programmes will contribute to the scaling up of some adaptation actions in the field of climate adaptation knowledge and disaster risk reduction.

| | |
|--|--|
| National adaptation plan | <p>The plan has prioritised 230 concrete measures covering the 20 thematic areas of the plan:</p> <ul style="list-style-type: none">• Cross-cutting actions• Health including "PlanCanicule"• Water• Biodiversity• Natural hazards• Agriculture• Forests• Fisheries and aquaculture• Energy and industry• Transport infrastructures• Urban planning and the built environment• Tourism• Information• Education and training• Research• Funding and insurance• Coastlines• Mountains• European and international actions• Governance |
| All actions of the plan are agreed and planned | |



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Case studies

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→ General → Adaptation support tool → **Case study search tool** → Map viewer
→ Uncertainty guidance → Guidelines for project managers → Urban adaptation support tool

Case Study Search tool ?

Enter location



Display Options

Climate Impacts:
All climate impacts

Adaptation Sectors:
All adaptation sectors
Agriculture and Forest
Biodiversity
Coastal areas
Disaster Risk Reduction
Financial
Health
Urban
Infrastructure
Marine and Fisheries
Water management

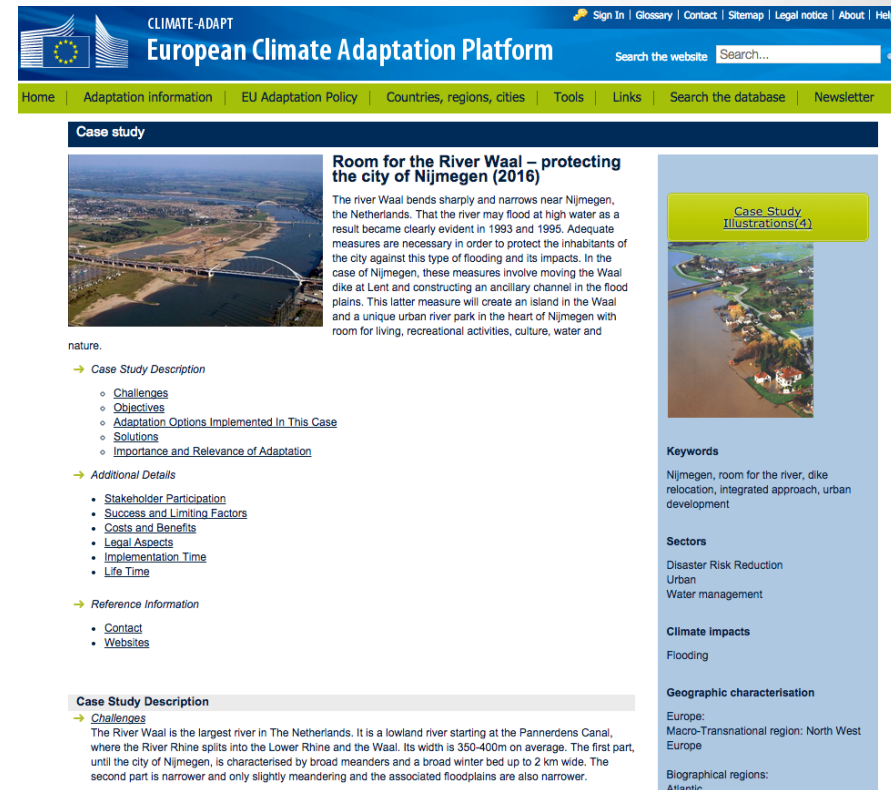
Case Study Search Results

Case studies in similar biogeographical region



Case studies

- **Strict quality criteria** for the selection, e.g. implemented action
- **Detailed** description and pictures
- **Success factors**
- **Cost-benefit** information
- Links to **adaptation options** section
- **Local contact** is provided



The screenshot displays the 'European Climate Adaptation Platform' website. The header includes the 'CLIMATE-ADAPT' logo, navigation links (Sign In, Glossary, Contact, Sitemap, Legal notice, About, Help), and a search bar. The main navigation bar lists: Home, Adaptation Information, EU Adaptation Policy, Countries, regions, cities, Tools, Links, Search the database, and Newsletter.

The 'Case study' section features a large image of the River Waal and a title: 'Room for the River Waal – protecting the city of Nijmegen (2016)'. The text describes the river's path and the need for adaptation measures. Below the image, a 'nature.' link is present. The 'Case Study Description' section lists: Challenges, Objectives, Adaptation Options Implemented In This Case, Solutions, and Importance and Relevance of Adaptation. The 'Additional Details' section lists: Stakeholder Participation, Success and Limiting Factors, Costs and Benefits, Legal Aspects, Implementation Time, and Life Time. The 'Reference Information' section lists: Contact and Websites.

The 'Case Study Illustrations(4)' section shows a small image of the river. The 'Keywords' section lists: Nijmegen, room for the river, dike relocation, integrated approach, urban development. The 'Sectors' section lists: Disaster Risk Reduction, Urban, and Water management. The 'Climate impacts' section lists: Flooding. The 'Geographic characterisation' section lists: Europe, Macro-Transnational region: North West Europe, and Biographical regions: Atlantic.



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Searching the database




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Type of Data +
Adaptation sectors -
☒ Any of the sectors selected below
☐ Exclude sectors as a filter criteria
☐ Agriculture and Forest
☐ Biodiversity
☐ Coastal areas
☐ Disaster Risk Reduction
☐ Financial
☐ Health
☐ Urban
☒ Infrastructure
☐ Marine and Fisheries
☐ Water management
Climate Impacts +
Adaptation Elements +
Countries +
Year +

The database contains quality checked information and is annotated by climate adaptation experts with keywords.

Search the database using the keywords field below and filter the results using one or more of the filters from the left side bar

Keyword: ☐ Any of these words: ☒ All of these words:

Search results: 92

▼ Publications and reports (43)
Sort by: ☒ Search relevance ☐ A to Z ☐ Year in descending order

< 1 2 3 4 5 6 7 8 9 >

- » **Climate Impacts on Energy Systems - KEY ISSUES FOR ENERGY SECTOR ADAPTATION (2011)** - This report was produced by the Energy Sector Management Assistance Program (ESMAP) and the World Bank Group's Global ...
Search relevance: ■■■■■■
- » **Impacts of Climate Change on Regional Energy Systems (2009)** - It is assumed that climate change will in general lead to more extreme weather conditions, putting additional pressure on the energy infrastructure ...
Search relevance: ■■■■■■
- » **Climate Change and Energy Systems. Impacts, Risks and Adaptation in the Nordic and Baltic countries (2011)** - This report summarises results from the research project Climate and Energy Systems (CES), which del ...
Search relevance: ■■■■■■
- » **Adapting to climate change in the infrastructure sectors Maintaining robust and resilient infrastructure systems in the energy, transport, water and ICT sectors (2010)** - Sustained, effective operation of the n ...
Search relevance: ■■■■■■
- » **Vulnerability of US and European electricity supply to climate change (2012)** - During recent warm, dry summers several thermoelectric power plants in Europe and the southeastern United States were forced to re ...
Search relevance: ■■■■

► Information portals (8)

► Guidance (3)

► Tools (3)

► Indicators (1)

► Research and knowledge projects (27)



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Questions?



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