

Interdisciplinary Research Projects of the Competence Centre

In addition to further extending the range of expertise and specifically promoting young scientists in climate related studies at the University of Kassel, one of the main objectives of CliMA is to carry out interdisciplinary research projects in the field of climate change mitigation and climate change adaptation. Alongside the projects conducted by individual departments, the following interdisciplinary projects are examples of the work being done at CliMA:

- Interdisciplinary project: "KLIMZUG-Northern Hesse", funded by the Federal Ministry of Education and Research (BMBF) (2008-2013)
- "GLOWA-Jordan", funded by the Federal Ministry of Education and Research (BMBF) (2008-2013)
- "Modelling of typical water users in the Danube basin" in the research project: "GLOWA-Danube", funding through the Federal Ministry of Education and Research (BMBF) (2001 – 2010)
- Interdisciplinary project: "PROGRASS (Securing the conservation of NATURA grassland habitats with a distributed bioenergy production)", from the Life+ program of the European Union (EU) (2009-2012)
- "Development perspectives for sustainable 100% renewable energy regions in Germany", funded by the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) (2007-2010)

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Competence Centre

for Climate Change Mitigation and Adaptation



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Climate Change
Mitigation and
Adaptation



Competence Centre for Climate Change Mitigation and Adaptation

(CliMA)

Climate change mitigation and adaptation to the unavoidable consequences of climate change are issues of top priority. In order to undertake these tasks, suitable strategies, measures and technical innovations must be developed and tested, and extensive changes in behaviour must be made, both economically and socially. At the University of Kassel, various departments and research centres have been working together on these matters for many years.

The Competence Centre for Climate Change Mitigation and Adaptation (CliMA), founded in 2009, has pooled its wide-ranging expertise into the following four fields of work: climate change mitigation solutions, climate change adaptation strategies, social framework conditions, and transfer of knowledge.



CLIMATE CHANGE MITIGATION TEAM

Climate change mitigation requires the interdisciplinary development of solutions for global, regional and local concepts, and measures, especially in the areas of energy generation and energy use. Research on decentralised energy supply (in particular from renewable forms of energy) and climate-friendly energy use (production, urban planning, house building, traffic concepts) has been conducted for many years at the University of Kassel.

Participating departments and facilities

Waste Engineering | Building Physics | Soil Biology & Plant Nutrition | Electrical Energy Supply Systems | Grassland Science & Renewable Plant Resources | Integrated Traffic Planning & Development of Mobility | Ecological Plant Protection | Production Organisation & Factory Planning | Regenerative Heat Generation | Waste Water Management | Solar & Systems Engineering | Continuous Flow Machines | Environmental Chemistry | Environmentally Compatible Products & Processes | Environmental Meteorology | Traffic Systems & Traffic Planning | Hydraulic Engineering & Water Management

CLIMATE CHANGE ADAPTATION STRATEGIES TEAM

The main concern of the climate change adaptation strategies team is to focus on climate change and its consequences. This team is responsible for developing adaptation solutions in the areas of resources, tourism, regional development, mobility, planning and construction. Sixteen departments and scientific centres at the University of Kassel are significantly involved in developing climate change adaptation strategies in the interdisciplinary project "KLIMZUG-Northern Hesse – Climate Change Adaptation Network for the Model Region of Northern Hesse".

Participating departments and facilities

Building Physics | Soil Biology & Plant Nutrition | Grassland Science & Renewable Plant Resources | Integrated Traffic Planning & Development of Mobility | Ecological Plant Protection | Economics of Urban and Regional Development | Regenerative Heat Generation | Solar & Systems Engineering | Environmental Chemistry | Environmentally Compatible Products & Processes | Environmental Meteorology | Traffic Systems & Traffic Planning | Hydraulic Engineering & Water Management



SOCIAL FRAMEWORK CONDITIONS TEAM

Without suitable social framework conditions essential for individual and collective changes in behaviour, climate change mitigation and climate change adaptation would be inconceivable. The main task of the interdisciplinary social framework conditions team is to investigate both business and economic issues, and the political, social (systems theory, scenarios), legal and psychological challenges of social change.

Participating departments and facilities

Center for Environmental Systems Research (CESR) | Sustainable Management | Public Law | Political & Legal Regional Development in the European Context | Political Science Environmental Research | Public and Private Enterprise Theory | Environmental & Behavioural Economics | Environmental System Analysis | Environmental System Technology

TRANSFER OF KNOWLEDGE TEAM

In order to practically implement research findings in the area of climate change mitigation and climate change adaptation, transfer of knowledge into practice is essential. This transfer can only take place through the involvement, networking, accompaniment and support of all relevant players. The interdisciplinary transfer of knowledge team designs, tests and evaluates education concepts encompassing the entire field of formal, informal and non-formal education. Members of this team include the competent departments of the University of Kassel, the Climate Change Adaptation Academy (KAA) of the research project KLIMZUG-Northern Hesse, and UniKasselTransfer.

Participating departments and facilities

General Pedagogy | Vocational and Business Education | Didactics of Political Education | Climate Change Adaptation Academy (KAA) | UniKasselTransfer