

## IZT – Profile

The Institute for Futures Studies and Technology Assessment (IZT) is a non-profit research institute, founded in 1981 conducting research projects, delivering expert opinions, and advising political and industrial decision makers.

The IZT strives towards contributing to a 'liveable' future. It is the mission of the IZT not only to conduct future oriented research, but also to actively shape the future and to develop strategies which are socially and ecologically sustainable. It is a key aim of our work to introduce a long-term oriented perspective into the development of technologies, policies and the economic system.

Our topics relate to the global challenges of mankind. The IZT has specific expertise in the fields of sustainable management and economics; ICT, media and communication; energy, climate protection and air pollution as well as regional studies, housing and mobility.

The IZT applies a mix of up-to-date qualitative and quantitative research methods. Projects are user-orientated and practice-based. The work spectrum of IZT features: future scenarios, assessment of technological effects, technology evaluation, benchmarking, service-engineering, LCA - life cycle analysis, feasibility studies, delphi surveys, integrated roadmapping, evaluation studies, technology design, market introduction concepts, future labs, and modelling.

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## Energy Research at IZT

**Energy**

**Climate Protection**

**Air Pollution Control**

**Institut für Zukunftsstudien  
und Technologiebewertung**

**Institute for Futures Studies  
and Technology Assessment**

## Energy Research at IZT

The use of energy is one of the key drivers for global social and economic development. The way energy is used today goes along with negative impacts like e.g. climate change, air pollution and contamination of soil and water. Therefore, a drastic change in both consumption and production patterns is necessary. In this respect, energy and resource efficiencies need to be increased considerably. Renewable energies need to be employed on a broader scale as well as modern, efficient storage technologies.

Energy research at the IZT addresses these challenges. The focus is on the analysis of prerequisites and impacts of transformations of the energy system towards sustainability on local, regional, national and international level.

Energy research at the IZT is pursued in an interdisciplinary manner. Project teams consist of members with various academic and professional backgrounds.

The spectrum of research projects embraces feasibility studies on the implementation of decentral and renewable energy technologies in existing markets, acceptance assessment of strategies and instruments for different stakeholders as well as emission modelling, monitoring and reporting.

## Topics

which describe IZT competences in the fields of Energy, Climate and Air Pollution Control:

- Energy Foresight and Energy Scenarios
- Sustainable Energy Policy and Policy Instruments
- Evaluation and Assessment of Energy Research Programmes
- Sustainability Assessment and optimisation of energy systems and their components
  - Energy Efficiency and Rational Use of Energy
  - Renewable Energy Technologies
  - Decentral Energy Systems and Energy Storage
  - IT Solutions and Telematic Applications to Enhance Energy Efficiency
  - Energy Efficient Buildings and Energy Related Services
- Life Cycle and Ecological Impact Assessment of Energy Technologies
- Urban and Regional Energy Management
- Acceptance of Energy Innovations
- Education and Awareness Raising
- Emission inventories, forecasts and modelling of emission reduction measures for greenhouse gases and other air pollutants
- Quality management of emission data according to IPCC and UN/ECE standards

### Selected Projects:

- EFONET – Energy Foresight Network (EC 2008-2010)
- Enerkey – Energy as Key Element for Sustainable Development of Johannesburg (BMBF 2008-2013)

- BewareE – Reducing the Energy Consumption of Residents by Behavioural Changes (EC 2007-2009)
- Development of RES in selected States of Eastern Europe (BMU 2008-2009)
- Strategies for the Reduction of Particulate Matter Load in Ambient Air (UBA 2007-2010)
- Biomodels – Modelling of the domestic energy system based on biomass energy in rural areas in Southern Africa (VW-Foundation 2007-2009)
- PV ATHLET – Advanced Thin Film Technologies for Cost effective Photovoltaics (EC 2006-2010)
- Railenergy: Innovative Integrated Energy Efficiency Solutions for Railway Rolling Stock, Rail Infrastructure and Train Operation (EC 2006 – 2010)
- Adaptation of Energy and Emission Projection Values to the Energy Data Model BEU (UBA 2006-2007)
- Experience Renewable Energies: powerado (BMU 2005-2008)
- Acceptance and Promotion Strategies for Renewable Energy Technologies on Local and Regional Level (BMU 2005-2007)
- RTD in Energy Storage - An International Comparison (TAB 2006)
- Environmental standards for thermal solar collectors (BMU 2005-2006)
- Technology-Roadmap Automation 2015+ (ZVEI 2005-2006)
- Measures to Comply with the Emission Ceilings of the NEC-Directive (UBA 2005-2006)
- Energy Data for Greenhouse Gas Reporting (UBA 2005-2006)
- Portfolio Analysis of European Community Non Nuclear Energy RTD Projects (EC 2005-2006)
- EURENDEL – Technology and Social Visions for Europe's Energy Future (EC 2002-2004)