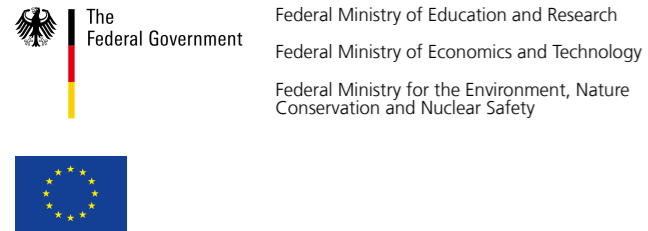


**FACTS AND FIGURES**

The Fraunhofer ISI has been shaping the innovation landscape both in Germany and internationally since its foundation in 1972. Its contractual partners and clients comprise industrial and service enterprises as well as the public sector. More than 15 percent of its budget comes from contracts with industry. About 50 percent is generated from publicly financed national research projects; around 15 percent is commissioned by the European Union.

**SELECTED CLIENTS**



We work for the leading energy suppliers in Germany.

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**The Competence Center consists of three Business Units:**  
Energy Efficiency  
Energy Economy  
Demand Analyses and Projections

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**HOW TO FIND US**

**By car** | On the A5 motorway, take the exit Karlsruhe-Durlach and drive towards Karlsruhe on the B 10 then follow the signs for Waldstadt.  
**By tram** | From the main train station (Hauptbahnhof), take Tram 4 in the direction of Waldstadt to the tram stop Glogauer Strasse (approx. 25 minutes).

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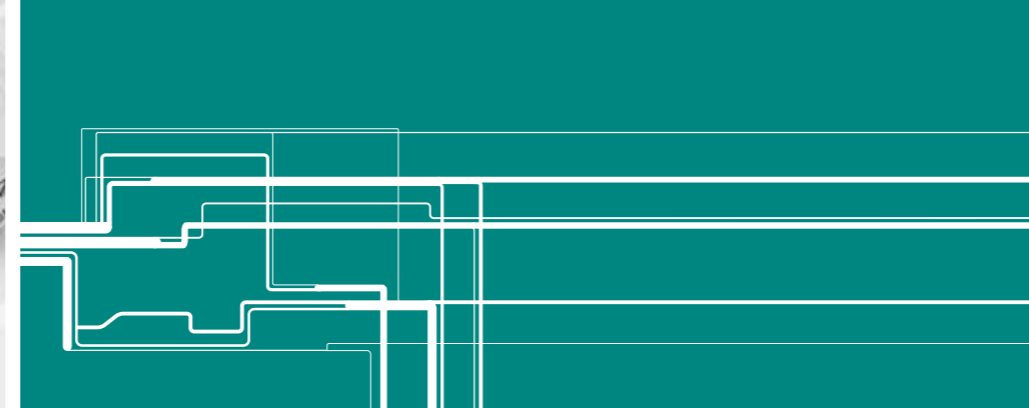
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**ENERGY TECHNOLOGY  
AND ENERGY SYSTEMS**





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## ENERGY TECHNOLOGY AND ENERGY SYSTEMS

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The Fraunhofer Institute for Systems and Innovation Research ISI analyzes the origins and impacts of innovations. We research the short- and long-term developments of innovation processes and the impacts of new technologies and services on society. On this basis, we are able to provide our clients from industry, politics and science with recommendations for action and perspectives for key decisions. Our expertise lies in a broad scientific competence as well as an interdisciplinary and systemic research approach.

### OUR COMPETENCES

The Competence Center Energy Technology and Energy Systems contributes to designing a sustainable energy system. The efficient use of energy is a key strategy to satisfying energy demand in an environmentally-friendly and resource-conserving way.

The rational use of energy helps to strengthen the competitive position of industrial locations and the export-oriented capital goods industry. In the coming decades, great market opportunities for energy services will open up in domestic and international markets.

We design and evaluate instruments for a more rapid development and diffusion of sustainable, innovative energy technologies as well as strategies for research and development.

Our analytical studies of how the increased use of energy-efficient technologies affects employment, income, economic structures and the environment help decision-makers to design practical and effective sustainability strategies.

In addition, we advise our national and international clients from government ministries, organizations and enterprises on the introduction of future-oriented technological, economic and institutional innovations.

### OUR BUSINESS UNITS

Energy efficiency is becoming increasingly important due to high energy prices and climate change. This is why the *Business Unit Energy Efficiency* analyzes techniques and measures to increase energy efficiency and develops strategies for enterprises and policymakers.

A safe, economical and environmentally-compatible energy supply needs sustainable supply systems. The *Business Unit Energy Economy* conducts market analyses of technologies and services, assesses new energy sources in transport and energy storage technologies and compiles energy-economic system analyses.

Planning a sustainable energy system requires detailed analyses of the demand developments expected in the future and the potentials of demand-side efficiency strategies, which are essential to meet climate protection and supply security goals. In the *Business Unit Demand Analyses and Projections*, technology-based models are developed and used for contract research from industry and politics.

### OUR RANGE OF SERVICES

- Design and evaluation of instruments to diffuse energy-efficient technologies
- Technology, energy and emission forecasts
- Examination of the potentials of efficient energy use and CO<sub>2</sub> reduction measures
- Sector and market analyses of new energy sources, energy-technology products and energy services
- Research on the barriers, success factors and business strategies to integrate innovative technologies into existing systems and markets
- Advice on setting priorities in R&D programs

### SELECTED PROJECTS

- 30 Pilot Networks
- Electricity demand projections for the European Union
- Wind/hydrogen storage systems
- Market success of electric vehicles