

Brief introduction

The Fraunhofer-Gesellschaft

The Fraunhofer-Gesellschaft

At a glance

Founded in 1949, the Fraunhofer-Gesellschaft is the world's leading applied research organization, focusing on key future-relevant technologies and the commercialization of findings in business and industry. A trailblazer and trendsetter in innovative developments.



30,800 employees

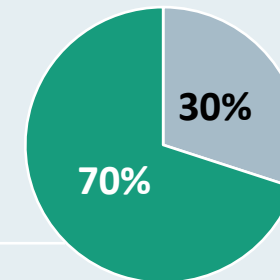


76 institutes and research units

€ 3.0 billion total funding
€ 2.6 billion contract research



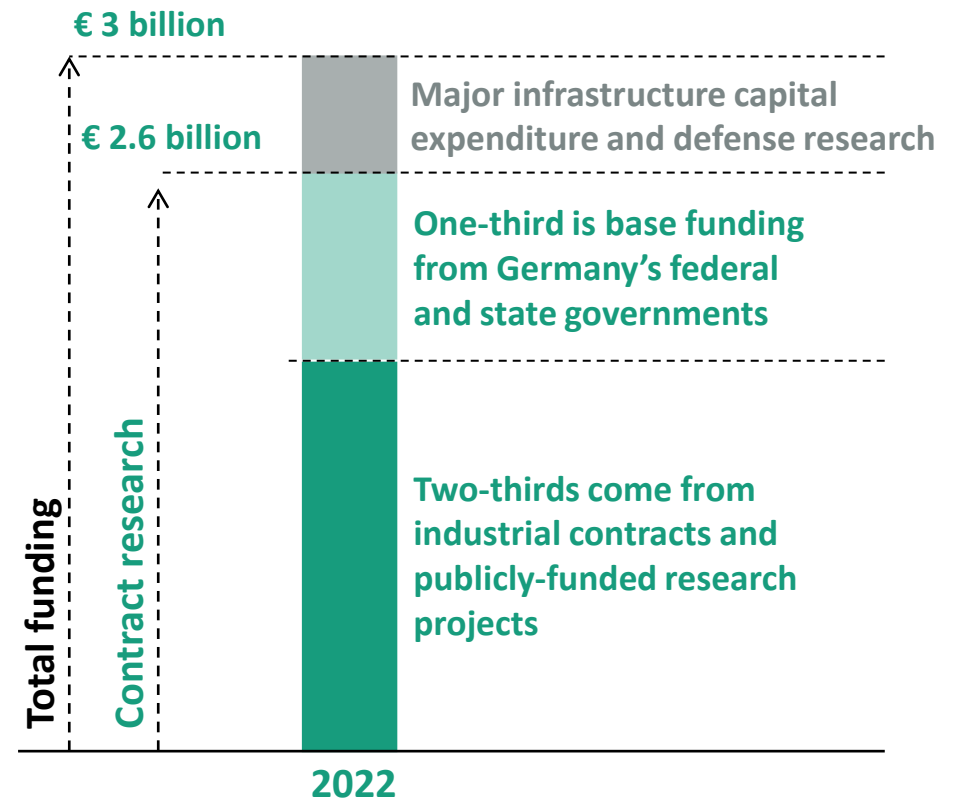
Industrial contracts and publicly-funded research projects



Base funding from Germany's federal and state governments

The Fraunhofer-Gesellschaft

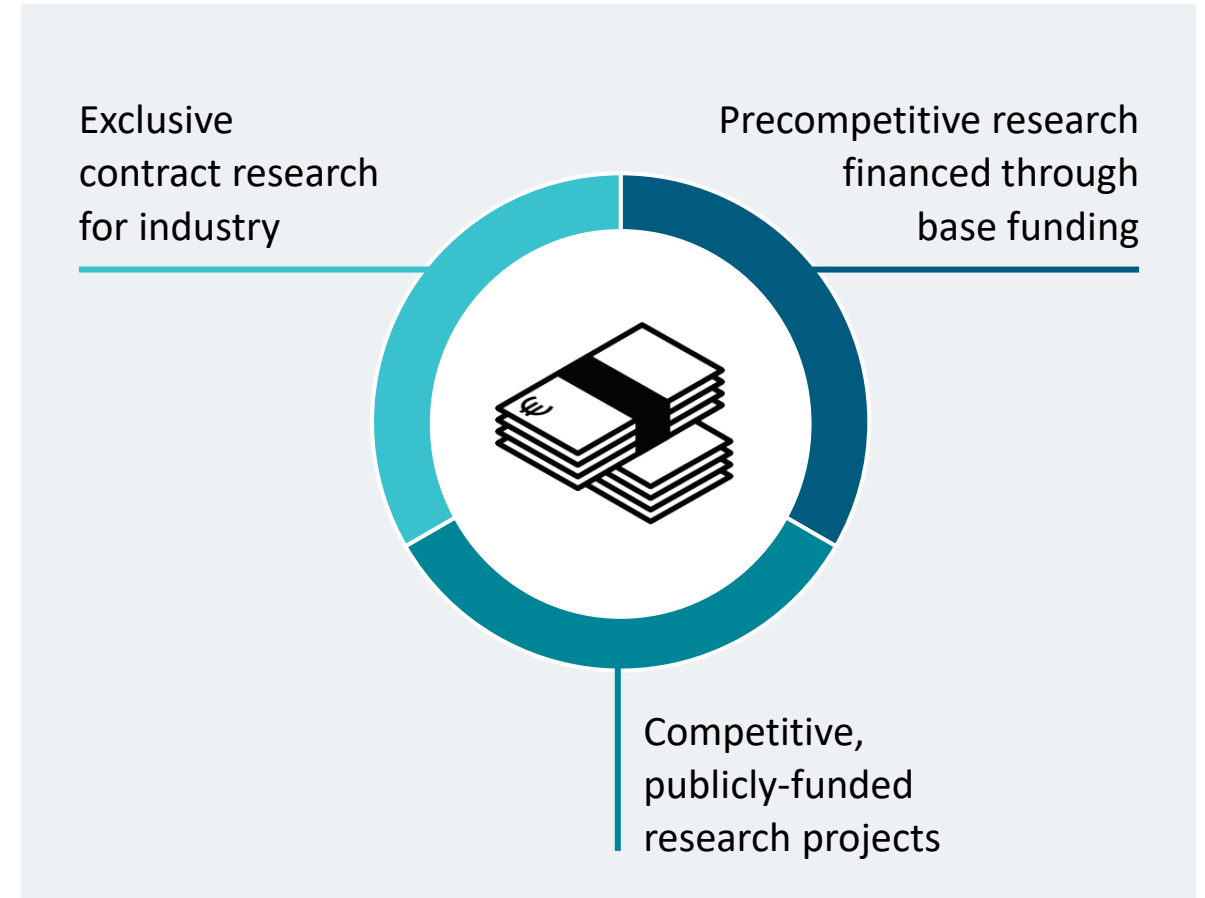
At a glance



The Fraunhofer-Gesellschaft

Funding sources

Contract research is the mainstay of Fraunhofer's business activities and, in keeping with the **Fraunhofer model**, is based on three primary sources, each contributing equal amounts to the organization's funding.



The Fraunhofer-Gesellschaft

International network



- Eight independent international Fraunhofer affiliates
- Activities with partners in approximately 80 countries
- Representative offices and senior advisors around the world build bridges to local markets



Fraunhofer Group for Energy Technologies and Climate Technologies

Anett Hauser



Fraunhofer Group for Energy Technologies and Climate Protection

The Group as a Partner in Energy Research Policy

Abstract

The Fraunhofer Group for Energy Technologies and Climate Protection brings together the **combined expertise of the energy research of the Fraunhofer Society**.

Our tasks include

- The strategic orientation of Fraunhofer's energy research,
- The maintenance of its competencies,
- The orientation of research through coordinated offers and roadmaps,
- And political agenda setting.

At the member institutes, the research and development of renewable energy technologies and storage systems is a priority alongside with **energy distribution, system analysis and system integration**. Various formats of the Group for E+C increase the visibility to the outside and simultaneously strengthen the internal networking of the institutes.

Fraunhofer Group for Energy Technologies and Climate Protection

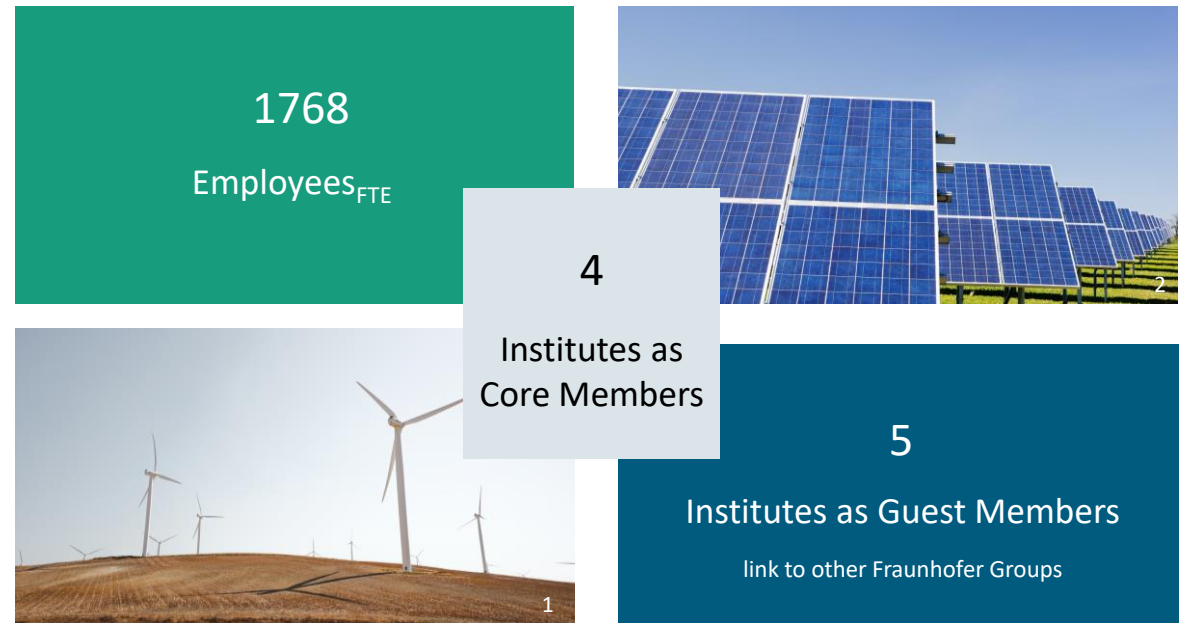
The Group as a Partner in Energy Research Policy

Members

Fraunhofer Institute / Research unit

- Energy Infrastructures and Geothermal Systems **IEG**
- Energy Economics and Energy System Technology **IEE**
- Solar Energy Systems **ISE**
- Wind Energy Systems **IWES**

- Environmental, Safety, and Energy Technology **UMSICHT**
- Manufacturing Engineering and Automation **IPA**
- Manufacturing Technology and Advanced Materials **IFAM**
- Optronics, System Technologies and Image Exploitation **IOSB**
- Systems and Innovation Research **ISI**



Fraunhofer Group for Energy Technologies and Climate Protection

Our research areas

Energy sources

Development and characterization

- Wind energy
- Solar energy
- Water energy
- Geothermal energy
- Hydrogen

Energy distribution

System analysis, development and simulation

- Coupled energy infrastructures
- Energy grids and energy neighborhoods
- Power grids

Energy conversion

Development, testing and inspection

- Wind energy plants
- Photovoltaic plants
- Converters (thermal, electrochemical and mechanical, biological)

Energy utilization

System analysis, development and simulation

- Energy efficiency and industrial processes
- System integration
- Digitalization of the energy system

Energy storage

Development, testing and analysis of storage systems

- Batteries
- Thermal storage
- Carbon capture and conversion technologies

Dialogue

- Science communication
- Stakeholder workshops
- Political events

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