

The image shows a complex industrial facility with numerous stainless steel pipes, tanks, and machinery. The equipment is arranged in a structured manner, with blue structural beams visible in the background. The lighting is bright, highlighting the metallic surfaces. A central banner with a grid pattern contains the text 'Fraunhofer UMSICHT Sulzbach-Rosenberg'. In the bottom right corner, the Fraunhofer logo and the text 'Fraunhofer UMSICHT' are displayed.

Fraunhofer UMSICHT

Sulzbach-Rosenberg



Fraunhofer
UMSICHT

About Fraunhofer UMSICHT

Institute Branch Sulzbach-Rosenberg



Joseph von Fraunhofer (1787 – 1826)



Fraunhofer lines



The Fraunhofer-Gesellschaft (since 1949)

Discovery of the »Fraunhofer lines« in the sun's spectrum

New manufacturing methods for lenses

Director and co-partner of a glass factory

Researcher



Inventor

© Deutsches Museum

Businessman

Research and development by order of industry and government

File format mp3, white LED

Spin-Offs

Fraunhofer-Gesellschaft

Research and development

- International research with focus on direct use for both private and public sector, and for the benefit of society
- Application-orientated fundamental research

Entrepreneurship

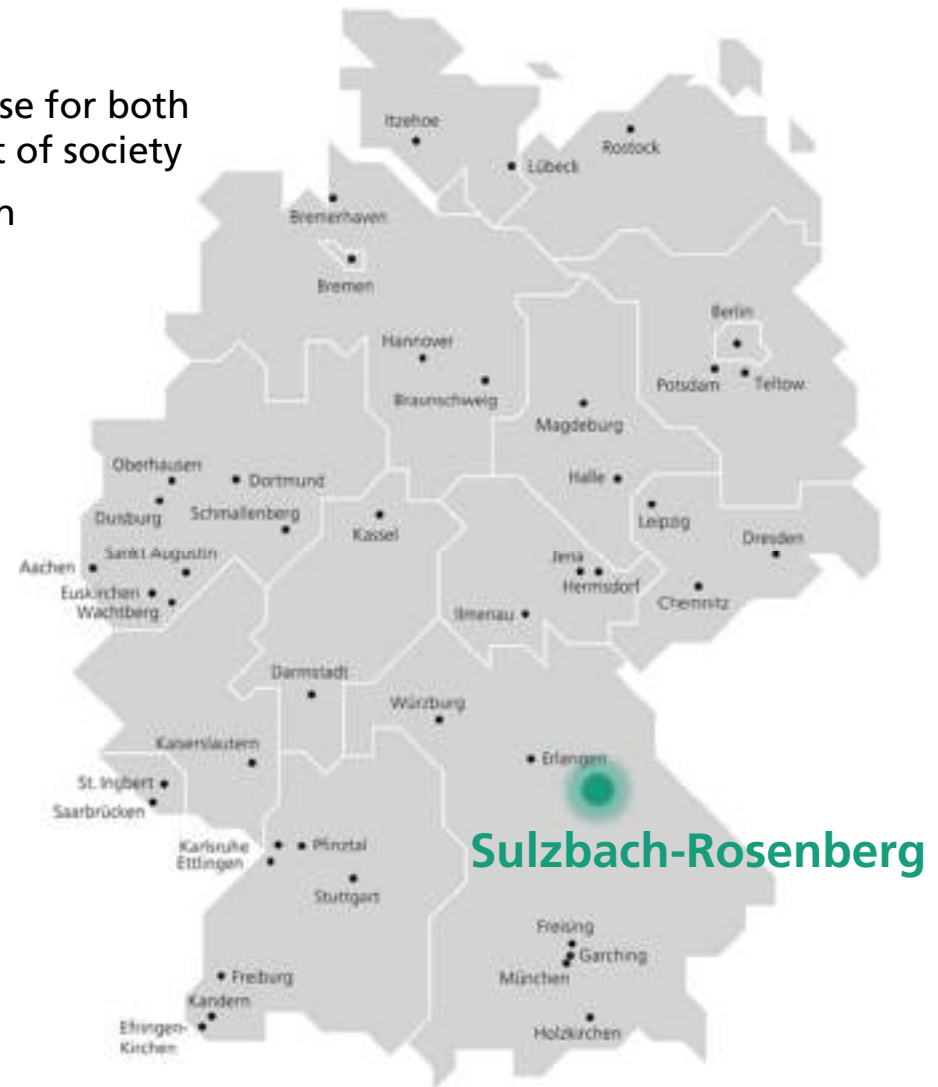
- Institutes organized as profit-centers
- A third of the budget are revenues from industrial projects
- Spin-offs are promoted

Contracting parties/ clients

- Industrial and service companies
- Public sector

Facts and figures

- > 24 000 staff members
- 69 research institutes
- 2.1 bn € annual research budget



Fraunhofer UMSICHT



Director
Prof. Dr.-Ing. Eckhard Weidner

Fraunhofer UMSICHT OBERHAUSEN 2013

Permanent staff	245
Other staff	182
Technical infrastructure	4500 m ²

Energy

Processes

Products



Director Sulzbach-Rosenberg
Prof. Dr. Andreas Hornung

INSTITUTE BRANCH SULZBACH-ROSENBERG

Permanent staff	65
Other staff	60
Technical infrastructure	1700 m ²

Renewable Energy

Recycling Management

Biological Process Technologies

Thermal Process Technologies

Fraunhofer UMSICHT Sulzbach-Rosenberg

Our topics



Production of new energy sources – Use of biogenic residual materials / energy storage



Protecting the biodiversity – Concepts for preservation of ecosystem services



Recycling – Recovery of critical raw materials from end-of-life high-tech products



Center for Energy Storage

Our Services



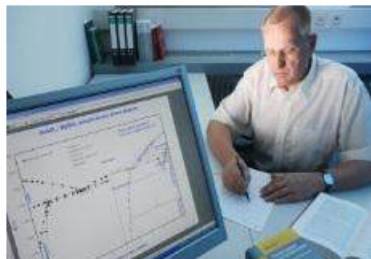
From the Idea...



Consulting & Studies



Development & Design



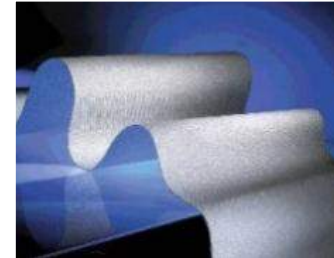
Construction



Pilot plant Operation



... to the Product



... Process-implementation



Feasibility • Economy • Ecology • Safety • Legal / Political Framework

Thermochemical Treatment of Waste Fractions

International UMSICHT-Activities

