

Renewable Energies in Germany and Saxony – Supporting possibilities for German-Polish R&D projects

Innovation forum Renewable Energies
25th November 2009, Poznań

Nadine May, EESA

Saxon State Ministry for Economic Affairs
and Labor (SMWA)

Objectives:

- Enhance the competitiveness of Saxon companies especially SMEs in the field of renewable energies
- Provide long-term support for the creation of complete value chains
- Support regional and cross-national co-operations and networks



Guiding Principles

Strategic targets	Implementation
Support networking	<ul style="list-style-type: none"> - Expert meetings, workshops, match making for new research and business partner
Encourage innovations	<ul style="list-style-type: none"> - Initiation of R&D joint projects - Support funding application on State, Federal and European levels
Improve framework conditions	<ul style="list-style-type: none"> - Reduction of barriers like shortages of skilled staff or incomplete value chains - Initiation of international co-operations
Increase the visibility of topics	<ul style="list-style-type: none"> - Exhibitions, trade missions, conferences - Business and press delegations
Enhance transparency	<ul style="list-style-type: none"> - Well-directed public relation and marketing measures (website, newsletter, flyer, databases)

Importance of Renewable Energies

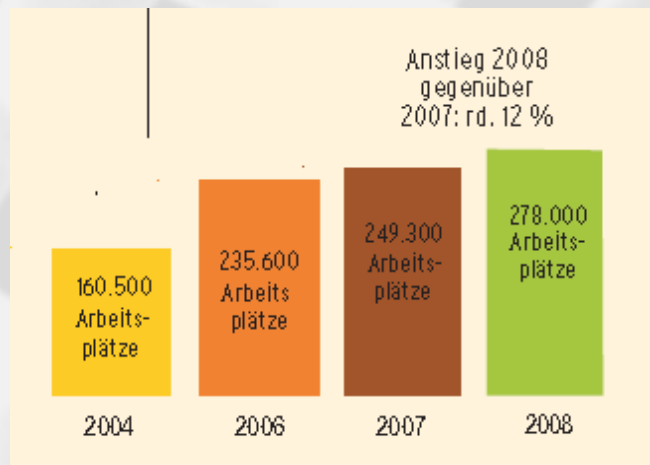
Innovation + Technik

German goals for 2020

- minus 40% CO₂ (comp. to 1990)
- 15 % → minimum 30 % renewables share in electricity consumption
- 8 % → 14 % renewables share in heat demand
- 6 % → 12 % biofuel share

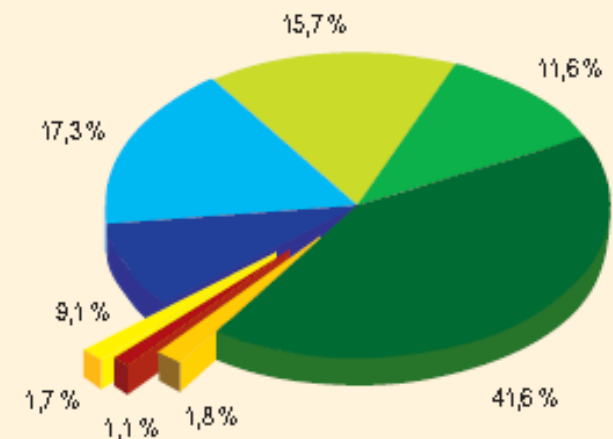
→ EEG + MAP since 2000

→ 28.8 billion € turnover in 2008



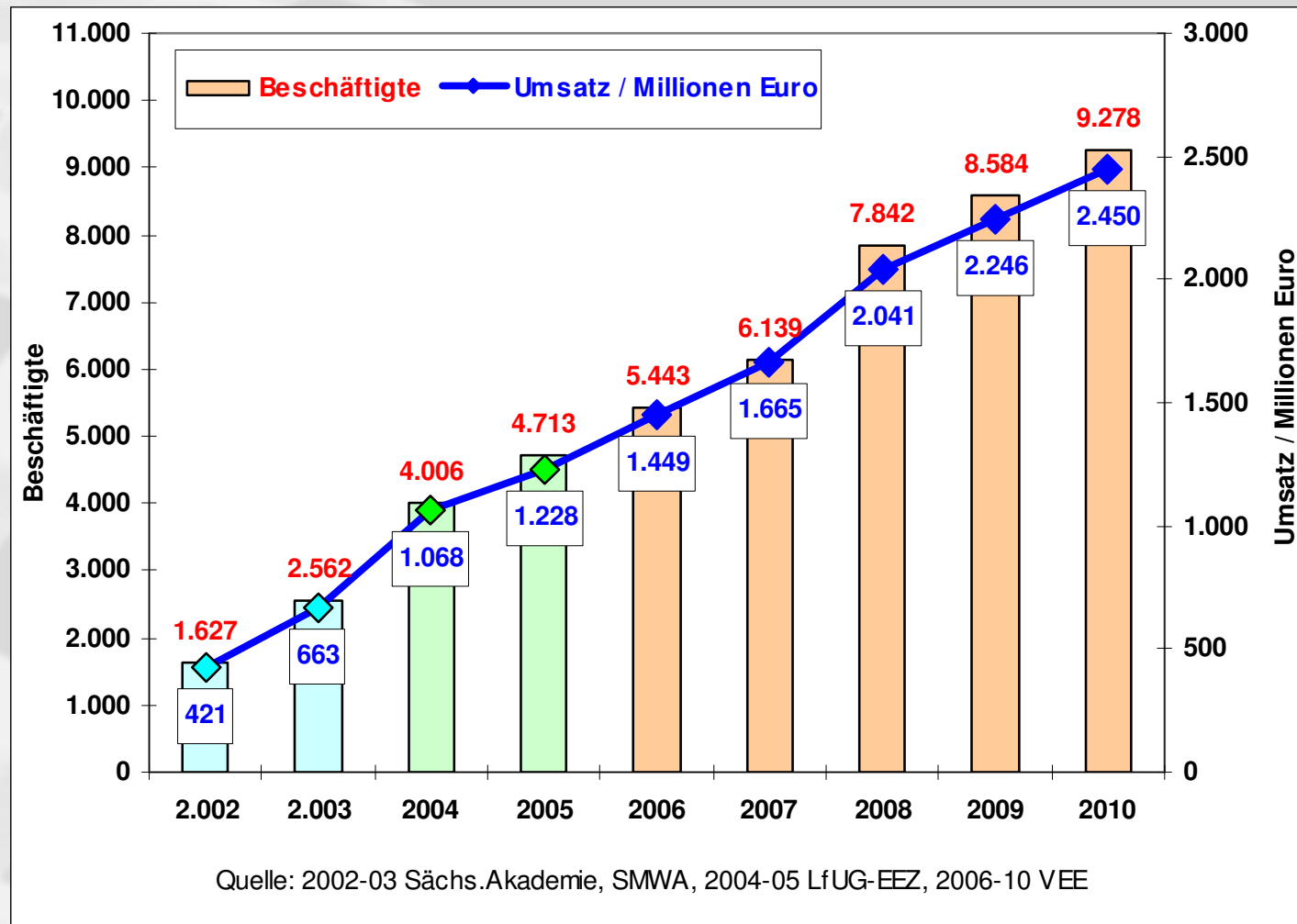
Struktur der Endenergiebereitstellung aus erneuerbaren Energien in Deutschland 2008

- Wasserkraft
- Windenergie
- Biokraftstoffe
- biogene Brennstoffe, Strom
- biogene Brennstoffe, Wärme
- Solarthermie
- Geothermie
- Photovoltaik



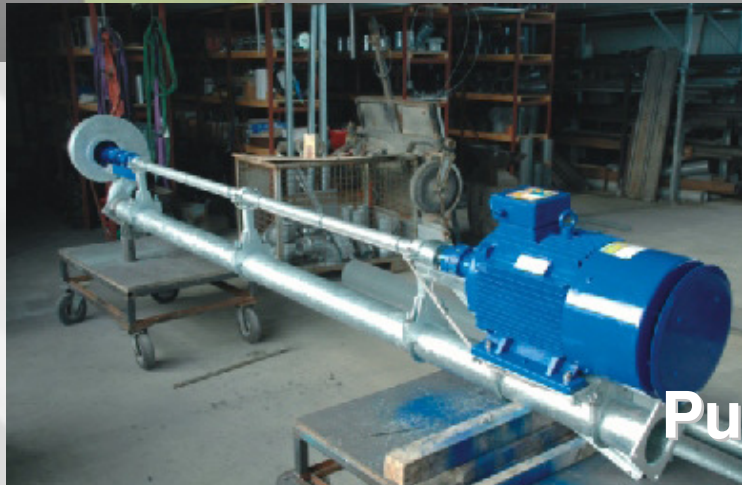
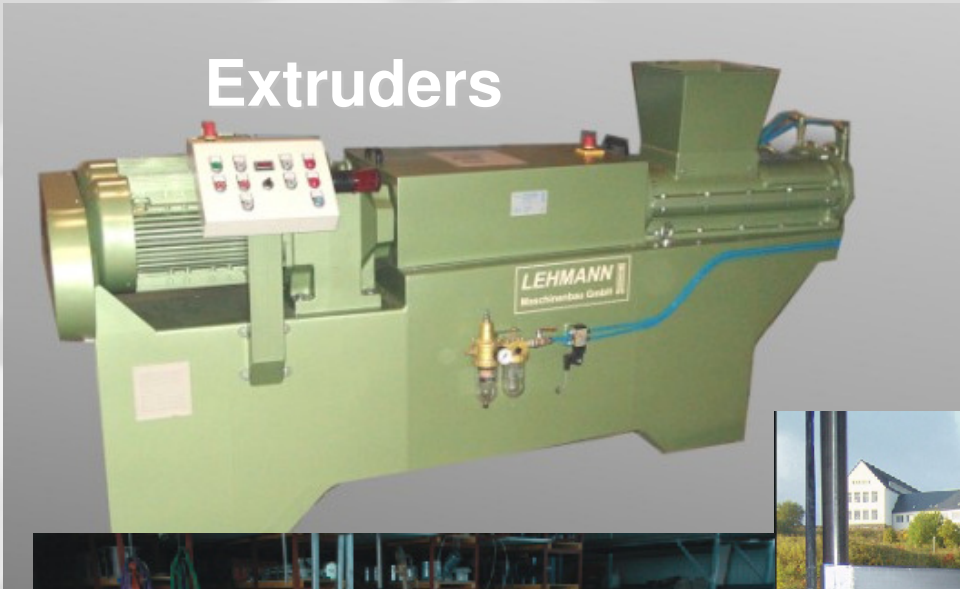
Effects on turnover and employment in Saxony

Innovation + Technik



Innovation + Technik

Extruders



Pumps



Lab fermenter

Source: Lehmann Maschinenbau,
FF-Maschinenbau

Saxon technologies for Wind energy

Im Auftrag des Sächsischen Ministeriums
für Wirtschaft und Arbeit (SMWA)

Innovation + Technik



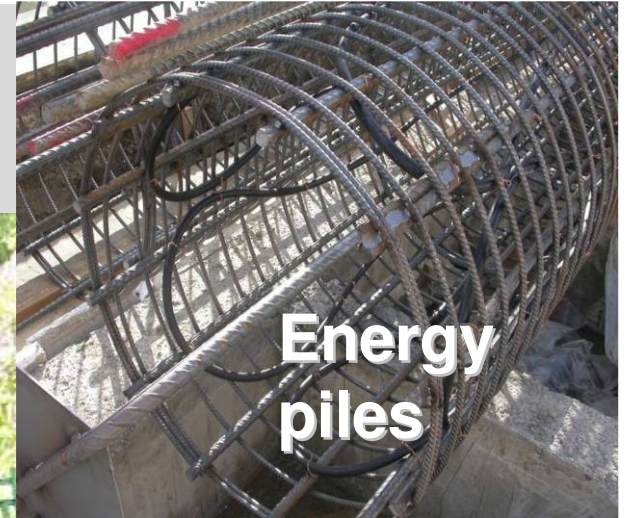
Source: Siag, VEM, Eickhoff

Saxon technologies for Geothermal energy

Innovation + Technik



Probes



**Energy
 piles**



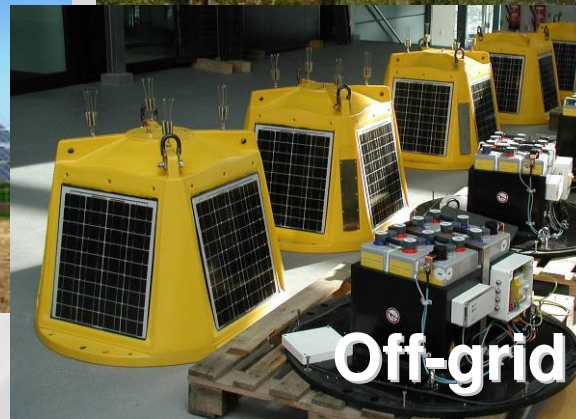
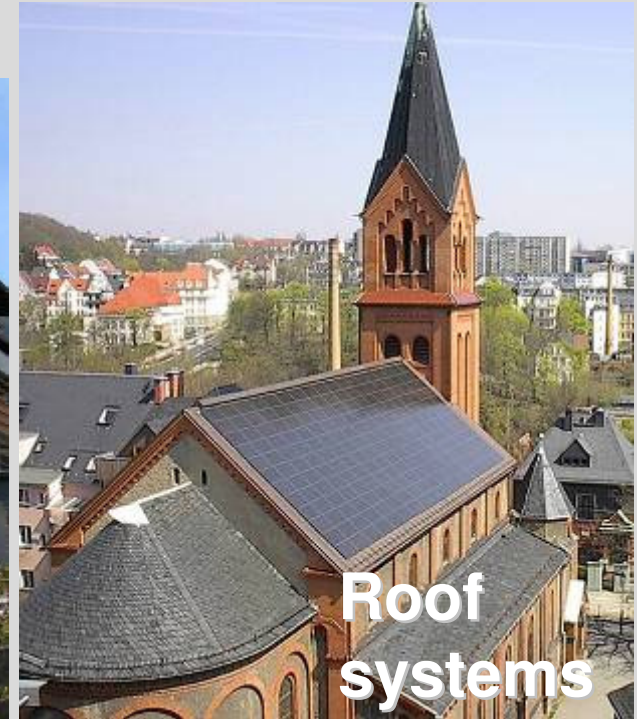
**Earth
 collectors**



Distributors

Saxon technologies for Solar energy

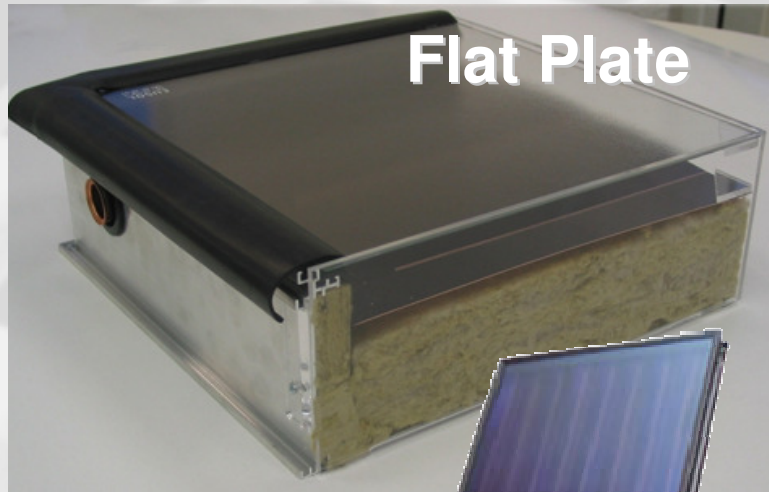
Innovation + Technik



Source: Solarwatt

Saxon technologies for Solar thermal energy

Innovation + Technik



Source: Narva, STI

Growing markets in Poland

Renewables share at total energy consumption:
 4 % in 2008, Ziel 15 % in 2020

Future markets:

- Bioenergy, Biogas, Biofuels
- Wind energy
- Small hydro power
- Geothermal energy
- Solar thermal energy

Installations list		
Location / installation type	Count	Power [MW]
▼ Polska		
BG	120	69.104
BM	14	246.490
PV	1	0.001
WI	282	666.332
WO	724	944.130
WS	38	0.000 *

<http://www.ure.gov.pl/uremapoze/mapa.html>

Funding for companies located in Poland (EU-Co-Financing):

Operational Programme Infrastructure and Environment (1.7 billion € for renewables) → Regional Operational Programmes

EU-Funding programme – Ziel 3

Operational Programme of cross-border collaboration between Saxony - Poland 2007-2013

Cross-border projects for strengthening the economic and social cohesion

Criteria:

- minimum 1 Polish and 1 German partner
- One of them is the "Lead Partner"
- minimum two of four requirements have to be met:
 - joint planning of the project
 - joint execution of the project
 - joint personnel for the project
 - joint financing of the project



Eligible contents

Priority 1 (cross-border development)

- Economy and science (**exchange of experience, networking, R&D projects, technology transfer**)
- Tourism and health facilities
- Traffic and communication
- Environment
- Regional policy and regional planning

Priority 2 (cross-border social integration)

- Education and qualification
- Art and culture
- Social infrastructure
- Public security
- Development of a close cooperation
- Small project funds



R&D joint projects in the field of
future technologies

FQ invest: max. 50 % for SMEs

500.000 Euro per year and
partner

Funding area



Eligible applicants

For Saxony:

- **Agencies**, chambers, associations, foundations, communities
- Health facilities
- Museum, libraries, group of artists
- **Local traffic companies**
- Universities, technology centres, research institutions
- SME, agriculture and forestry companies

For Poland:

- Counties and communities, chambers, foundations, associations, public administrative bodies
- Health facilities
- **Country parks and national parks**
- Cultural institutions, museum, libraries, **NGOs, churches**
- Educational institutions, universities, technology centres, research institutions
- SME, agriculture and forestry companies

- Strengthening of the scientific and technological basis of the European industry
- Improvement of the international competitiveness
- Additional benefit for Europe → Transnationality (min. 3 countries)
- yearly working programmes, calls, review process (Cordis, EPSS)
- Single programmes (Σ 50.5 billion €, 2007-2013):
 - COOPERATION (joint research projects, 32 billion €)
 - IDEAS (fundamental research, 7.5 Mrd. €)
 - PEOPLE (research scholarship, mobility, 4.75 billion €)
 - CAPACITIES (research infrastructure, 4 billion €)
 - NUCLEAR RESEARCH (ITER, 1.75 billion €)
- eligible: companies, research institutions, universities
- FQ: 50-75 % for joint projects, 50 % for demonstration projects



Competitiveness and Innovation Framework Programme (CIP)

- Improvement of the competitiveness and the innovation potential of the EU
- Creation of a convenient framework for the cross-border cooperation between SMEs
- Support of SMEs when adopting
 - new information, communication and environmental technologies
 - Eco-innovations
 - Energie efficiency, Renewable Energies
- Working programmes and support measures, calls



Competitiveness and Innovation Framework Programme (CIP)

- Sub programmes (3.6 billion €, 2007-2013):

Intelligent Energy Europe (730 Mio. €)

- Transfer of demonstration projects into profitable products,
- PR measures,
- Implementation of energy specific legal rules,
- Erection of local energy agencies

Entrepreneurship and Innovation (2.2 billion €)

- Start-up financing,
- Eco-innovations: products, processes, services,
- SME support for internationalisation and networking through Enterprise Europe Networks,
- Conferences



Thank you for your attention!

EESA

**Office Dresden
World Trade Center
Freiberger Straße 39
01067 Dresden**

Tel. +49 351 4865-421

Email: may@eesa-sachsen.de

www.eesa-sachsen.de