



Federal Ministry
for Economic Affairs
and Energy



MITTELSTAND
GLOBAL
EXPORTINITIATIVE ENERGIE

energy solutions – made in Germany

Thai-German Technology Conference Energy Efficiency in Buildings & PV Rooftop

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Deutsch-Thailändische
Handelskammer
German-Thai
Chamber of Commerce



Content

1. The German Energy Solutions Initiative
2. The role of Renewables Academy (RENAC) AG
3. Energy Transition in Germany

Aims of the German Energy Initiative

Promotion of renewable energy and energy efficient technologies

Showcase sustainable energy solutions

Implementation of projects

Know-how transfer

Contribution to international **climate protection**



The Initiative – a success Story

The **German Energy Solutions Initiative** creates benefits for Germany and the participating countries by:

- ✓ boosting global interest in renewable as well as energy-efficient technologies
- ✓ while encouraging their overall acceptance
- ✓ improving the economic, technological and political cooperation between Germany and other countries
- ✓ generating jobs in Germany and also in your country



How can you participate and meet German enterprises?



✓ Foreign trade fairs



✓ Networking opportunities



✓ Know-how transfer
✓ Information
✓ Capacity building



✓ Trade missions



✓ Fact finding missions



✓ Project development & flagship projects

Information about Events and German companies

On our website you can find:

- ✓ Information about technologies made in Germany on a Database
- ✓ Current news and upcoming events
- ✓ www.german-energy-solutions.de
- ✓ You may also always contact us!



Energy solutions – made in Germany

Die Exportinitiative Energie unterstützt kleine und mittlere, deutsche Unternehmen aus den Bereichen erneuerbare Energien und Energieeffizienz bei der Erschließung von Märkten in Ausland. Auf den folgenden Seiten finden Sie umfassende Informationen und Veranstaltungshinweise zu spannenden Märkten weltweit:



The Renewables Academy (RENAC) AG

- ✓ RENAC is a Berlin-based training specialist for renewable energy and energy efficiency
- ✓ We are Implementing Consultants for the Energy Solutions Initiative since 2008. We offer renewable energy (RE) and energy efficiency (EE) Trainings worldwide on technical and non-technical issues



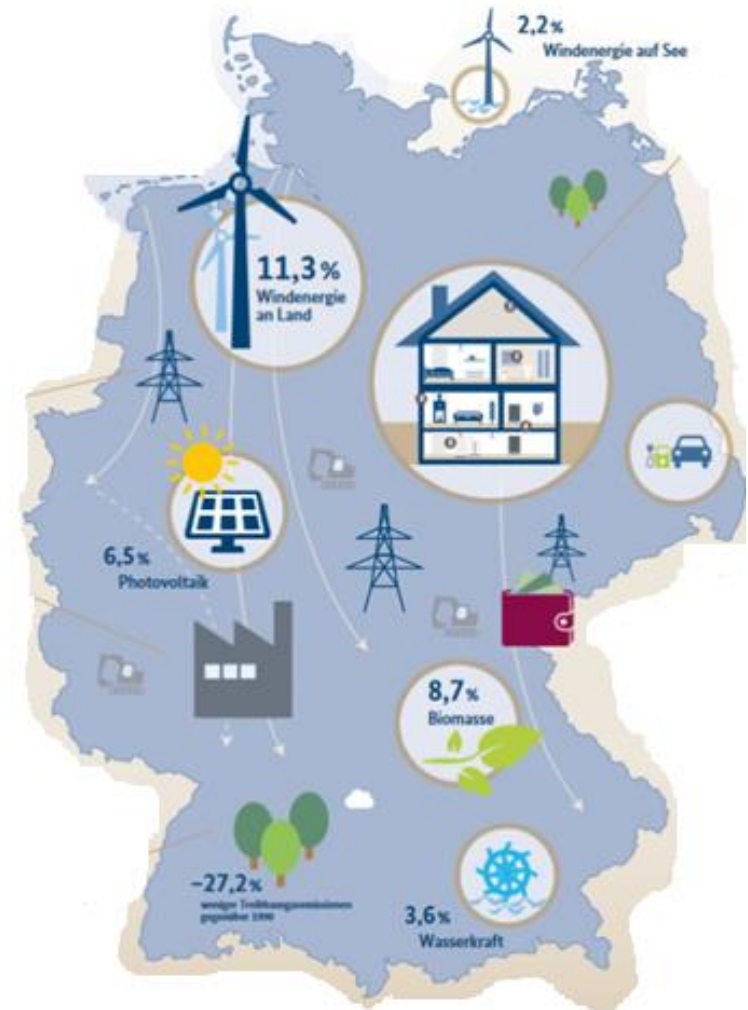
RENAC Service Expertise

- ✓ We offer renewable energy (RE) and energy efficiency (EE):
 - Training courses (face to face/ online)
 - Academic education
 - Capacity Building services
- ✓ Market leader for RE and EE capacity building and trainings
- ✓ Covered issues: technical, financial, legal, policy and project management
- ✓ Training for policy makers, finance institutions, engineers, project developers, technicians
- ✓ Independent
- ✓ Worked with over 140 countries



Reasons for an Energy Transition in Germany

- ✓ Phase-out nuclear power generation
- ✓ Reduce dependency on energy imports
- ✓ Reduce carbon emissions and reach climate protection targets
- ✓ Development of new technologies as new sources of growth and employment
- ✓ Energy policy can be both sustainable and economically successful (combined with measures for energy efficiency)



Targets and status of the Energiewende until 2050

		2015	2020	2030	2040	2050
Climate	% greenhouse gas reduction (vs. 1990)	-27,2 %	-40 %	-55%	-70%	-80-95%
Renewable energy	% gross final energy consumption	14,9%	18%	30%	45%	60%
	% gross electricity consumption	31,6 %	Min 35%	Min 50%	Min. 65%	Min 80%
	Share in heat consumption	13,2%	14%			
	Share in Transport sector	5,2%	10% (EU)			
Energy efficiency	% primary energy consumption (vs. 2008)	-7%	-20%			-50%
	Final energy productivity (2008-2014)	1,3% p.a.	2,1% per year (2008-2050)			
	Gross electricity consumption (vs. 2008)	-4,0 %	-10%			-25%
	Primary energy demand (buildings) (2008)	-15,9%				- 80 %
	Heat demand (buildings) (vs. 2008)	-11,1%	-20%			
Transport	Final energy consumption in transport (vs. 2008)	-1,3%	-10%			-40%
	Number of Electric vehicles (incl. hybrids)	130.000	1 million	6 million		

The energy transition follows a transparent, long-term strategy with specific targets

Integrated policy package for the Energiewende

Electricity



- Priority access for renewable energies
- Support scheme for renewable energies

Heating



- Renewable energies heat act, with requirements for new buildings
- Financial support through Market Incentive Programme

Transport



- Emission reduction quota for biofuels in transport
- Lower tax for gas as fuel
- Tax exemptions for electric and hydrogen vehicles

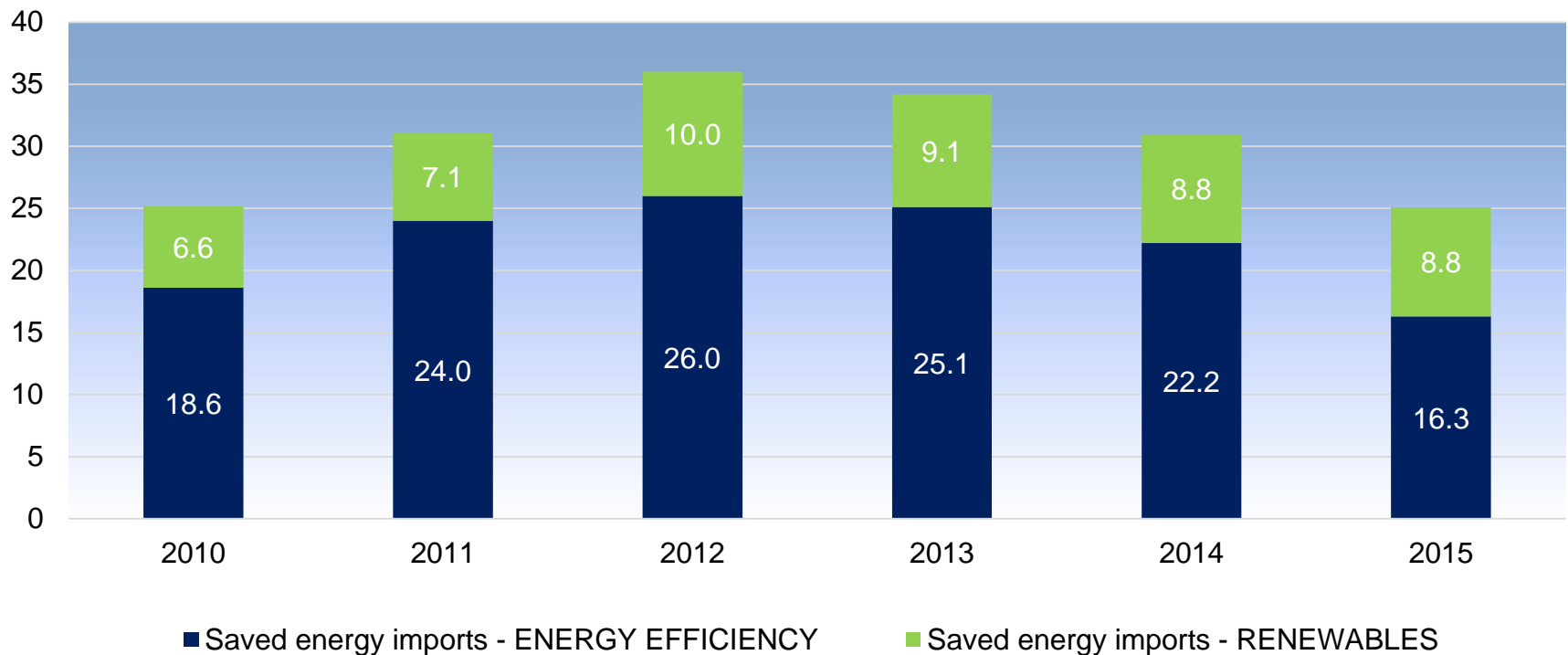
Research & Development



- (Sixth) Energy Research Programme (Federal Government)
- Research funding for renewables 328 mill € in 2016

Renewable support schemes tackle all energy sectors and ensure a holistic energy transition.

Benefit: reduced cost of energy imports



Renewable sources of energy saved € 8,8 billion in 2015. Efficiency-measures account for € 16.3 billion

Contact

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