













Overview

- 1. German Energy Transition
- 2. Energy Solutions Made in Germany
- 3. The German Delegation







German Energy Transition





The German *Energy Transition* combines security of supply, cost-effectiveness & environmental protection











Source: BMWi 2017

The energy transition triad combines efficiency, direct use of renewables and sector coupling

Efficiency first



Direct use of renewables



Sector coupling



Facilitator









The *Energiewende* is Germany's long-term energy and climate strategy

		Achieved 2017	2020	2025	2030	2035	2040	2045	2050	
Climate	% greenhouse gas reduction (vs. 1990)	27.6% (2016)	40		55		70	8	0 to 95	
Renewable Energy	% gross electricity consumption	36.2%	35	40 to 45	65				80	
	% gross final energy consumption	14.8% (2016)	18		30		45		60	
Energy Efficiency	Primary energy consumption (vs. 2008)	-6.0%	-20						-50	
	Final energy productivity (vs. 2008)	1.1% p.a. (2016)		+2.1% p.a. (2008-2050)						
	Primary energy demand in buildings (vs. 2008)	-15.9% (2015)	_						-80	
	Final energy consumption in transport (vs. 2005)	+1.3% (2015)	-10		-15 to -2	0			-40	







Main federal-level energy efficiency measures cover all key areas



Buildings

- Energy-saving legislation
- Financial support programmes (KfW, MAP)



Products and appliances

- Active implementation of EU energy efficiency labelling
- National Top Runner Initiative



Industry and business

- Tendering scheme
- KfW credits and loans
- Obligatory audits and energy efficiency networks



Transport

- Motor vehicle taxation
- Regulation of consumption



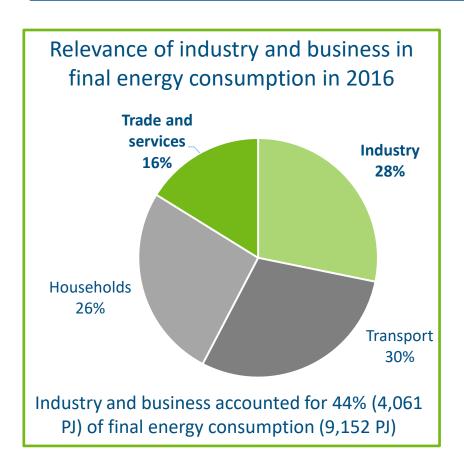






Source: Ecofys 2018, BMWi 2018

Energy efficiency in industry and business sector depends largely on investment in new technologies



Area measures

- Mandatory energy audits
- Exemptions from EEG surcharge and eco tax if energy management system is implemented
- Financing measures (KfW loans, grants for cross-cutting technologies and energy efficient production processes)
- European emissions trading
- Voluntary agreements with the manufacturing sector







Source: Ecofys 2017 based on AGEB, 2016, BMWi 2016

High potential for increasing energy efficiency in buildings

Final energy consumption 2015 Buildings: 35,3% Other: 64,7% Energy consumption in buildings: 3,069.4 PJ

Area measures

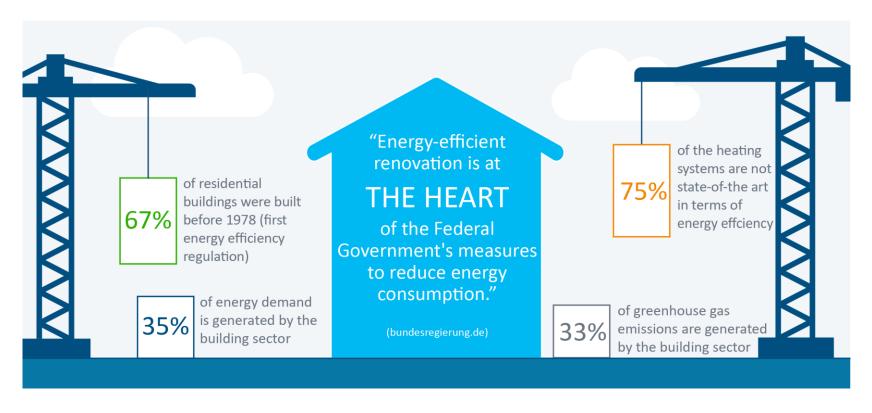
- On-site energy consulting programme
- KfW programme for energy-efficient construction and renovation
- Heating check and labelling
- Energy-saving legislation (EnEV)
- Energy performance certificates
- Key points of the energy efficiency strategy for buildings







Low-energy refurbishment of existing building stock is crucial for the success of the energy transition



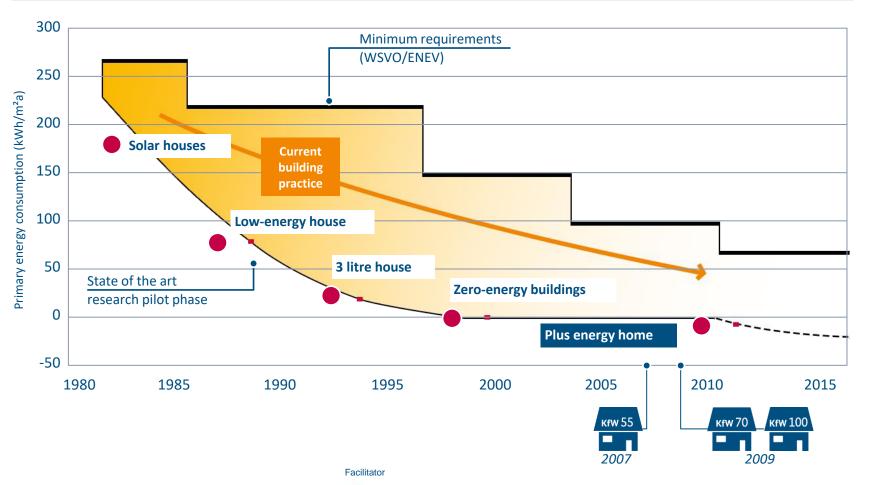








Building efficiency regulation follows the technical learning curve













Energy Solutions Made in Germany





Objectives of the initiative

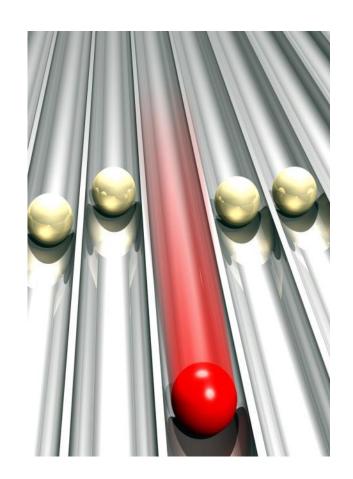
Promotion of renewable energy and energy efficient technologies

Showcase sustainable energy solutions

Implementation of projects

Know-how transfer

Contribution to international climate protection











Instruments offered by the initiative



✓ Foreign trade fairs



Networking opportunities



- ✓ Know-how transfer
- ✓ Information
- ✓ Capacity building



✓ Trade missions



✓ Fact finding missions



Project development& flagship projects













The German Delegation





Participating German Companies

Siekerkotte GmbH & Co. KG

EEPro GmbH

Volterion GmbH

skytron energy GmbH

TESVOLT GmbH

Solare Datensysteme GmbH

ABO Wind AG









Thank you for your kind attention!

Contact

Coordination Office German Energy Solutions Initiative

+49 (0)30 18 615 6401 7386

office@german-energy-solutions.de

www.german-energy-solutions.de

Follow us: @export_EE

eclareon GmbH

Sebastian Ulm

Project Manager

+49 (0)30 88 66 740 57

su@eclareon.com

www.eclareon.com









