German approaches in promoting energy efficiency KfW best practice experience

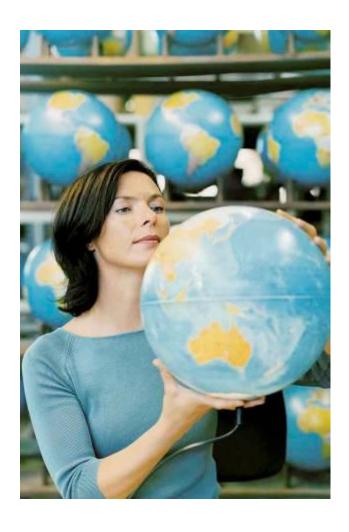
Workshop on Energy Efficiency Paris, March 2012

Gudrun Gumb KfW Bankengruppe



KfW Bankengruppe





- Founded 1948 as Promotional bank of the Federal Republic of Germany, Shareholders: 80% Federal Republic, 20% federal states
- Balance sheet total at 30.9.2011 EUR 477 billion
- Total Commitments in 2011 EUR 70 billion
- KfW has a wide array of functions
- Environmental and climate protection is a major promotional priority
- Focus: investments in renewable energies and energy efficiency in housing and SMEs
- Commitments in this sector in 2011 EUR 23 billion

KfW Bankengruppe is one of the world's biggest financing institution for energy efficiency and renewable energy

A bank with a wide array of functions







International project and export finance

Promotion of developing and transition countries

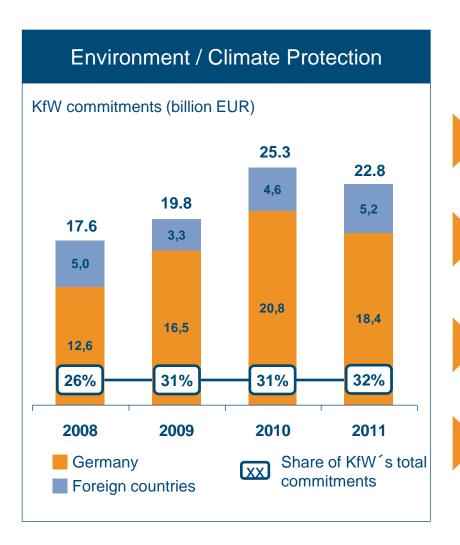
Figure 1. The property of the property of the project and export finance are provided by the project and the proje

Promotion of environmental and climate protection

Environmental Protection und Climate Protection



KfW is one of the largest financiers in this field worldwide



Central pillar for KfW's activities.

Ambitious increase of commitments in recent years.

Main focus on renewable energies and energy efficiency.

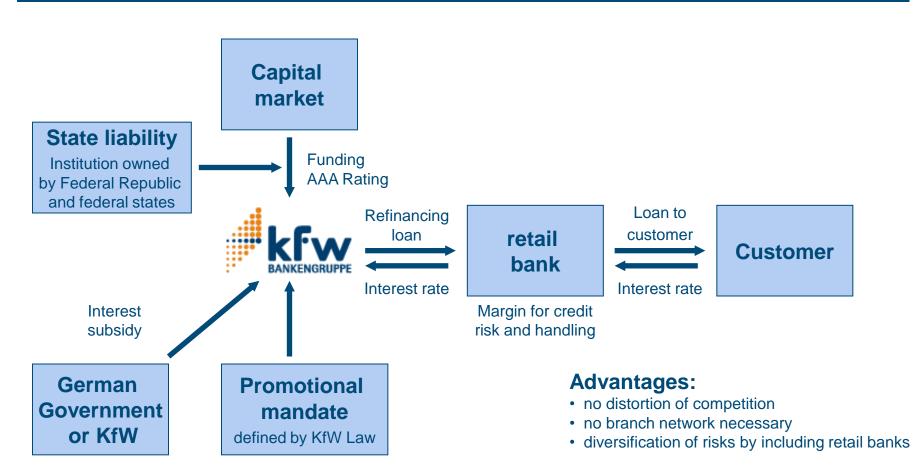
Continuance on high level in future.

Business Area KfW Mittelstandsbank





Funding by KfW and on-lending through private banks



How to Promote Energy Efficiency?







Carrot

Stick

Framework in Germany



"Information and Consulting"

Energy Efficiency

"Promotional Programmes"

Legislation, Rules and Regulation

Climate Policy Framework in Germany



Energy efficiency

Renewable energy

Information and Consulting

Regulation

Promotional Programmes

Energy Prices

- > 2007 Integrated energy and climate programme (regulation)
- > 2008 Climate Initiative (revenues from tendering carbon certificates)
- > 2010 Energy strategy (reduction targets)
- ➤ 2011 "Energiewende" turn around of German energy system

Reduction of greenhouse gas emission compared with 1990

- > minus 40 percent by 2020
- > minus 80 95 percent by 2050

Reduction of primary energy consumption compared with 2008

- minus 20 percent by 2020
- > minus 50 percent by 2050

mandator y targets

The German Energy Savings Directive (EnEV 2009)



The EnEV covers

- Energetic permissible limits for the construction and the rehabilitation of existing residential and non-residential buildings
 - with regard to building shell
 - with regard to heating, cooling and air conditioning techniques
- Regulation for Energy Performance certificates
- Determination of calculation methods
- Definition of energy consultants

KfWs Lobbying and Networking Activities



Public Relations



- Internet
- Press
- Trade fairs
- Print media
- Speaker service

Customer Relations



- Call center
- Counseling center
- Partner liaison

Lobbying



- Politics
- Government
- Associations etc.

Awards

KfW Academy

Assistance to On lending banks

Advisor data base

Equity holding

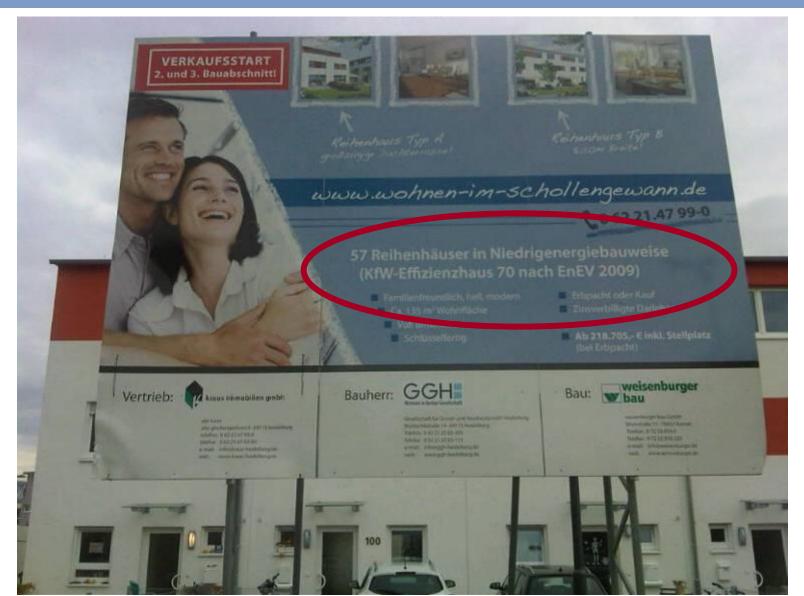
Information and Consulting





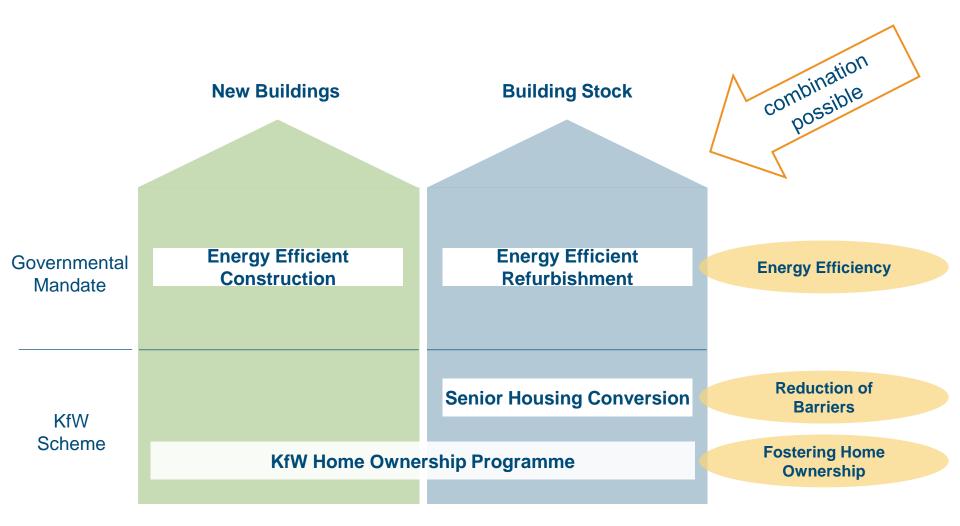
KfW Efficiency House as a brand





Overview of KfW's Residential Promotion





Key Principles of KfW's Energy Efficiency Promotion in Housing





KfW-70

Effizienzhaus

German Energy Conservation Ordinance (EnEV) is the baseline

- + Harmonizing of legal framework and promotion
- + promotional incentives require higher efficiency standards than legal framework

KfWs promotion is focussed on a holistic approach

- + Focussing on energy efficiency and renewable energies
- + Technological neutral (heating system or building envelope)
- + Cost efficiency and reduction of energy consumption is crucial

KfW-Efficiency House as standard and brand for energy efficiency

- + consistent standard for construction and refurbishment approved by an energy auditor
- makes a difficult regulation easy to understand:
 "The smaller the number the higher energy efficiency."
- + creates high transparency

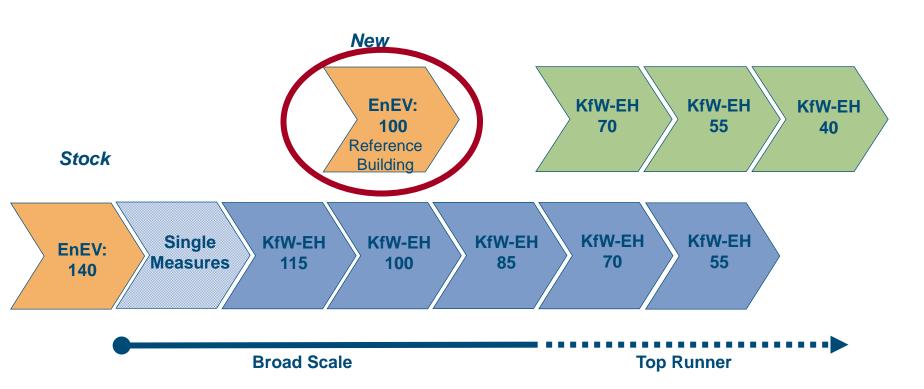
Higher energy efficiency means higher promotional incentives

Promotional Stages of KfW Efficiency House



KfW Efficiency House standard

- Consistent standard for retrofitting and construction with different stages
- Benchmark is legal requirement for new buildings defined in EnEV
- Reduction of complex legal requirements to two dimensions primary energy demand and specific transmission heat loss in defining the stages



KfW's Energy Efficient Construction and Rehabilitation Programme



New Homes Building Stock Energy Efficient Construction Energy Efficient Rehabilitation - Loans • Promotion of KfW-Efficiency House 70, 55 • Promotion of KfW-Efficiency House 115, 100, KfW-Efficiency and 40 85, 70 and 55 Interest subsidised loans Interest subsidised loans Partial debt relief from 5% to 10% Partial debt relief form 2,5% to 12,5% • Up to 50.000 Euro per housing unit • Up to 75.000 Euro per housing unit or Single measures • Single measures to improve energy efficiency Interest subsidised loans • Up to 50.000 Euro per housing unit

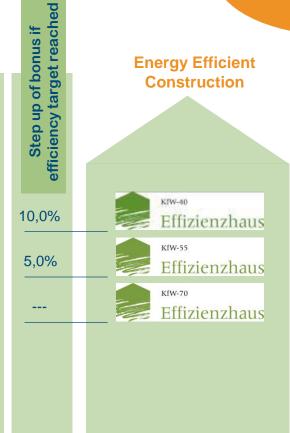
-Subsidised interest rates for a maximum of 10 years
-All groups of investors are eligible

Promotional Incentives

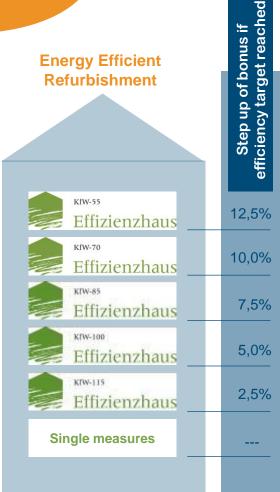


Higher energy efficiency means a higher bonus

one interest rate for financing



Energy Efficient Refurbishment



One interest rate for financing

Promotional Effects Housing



	2009	2010	2011
Commitments (in millions of EUR)	8,863	8,746	6,510
housing units (in 1.000)	617	953	282
reduction of CO ₂ (in 1,000 Tonnen p.a.)	1,452	1,049	567
jobs * (in 1,000)	292	342	247
investments (in millions of EUR)	18,335	21,330	18,427
federal budget (in millions of EUR)	2,033	1,337	934
leverage (9.0	16.0	19.7

Effects of promotion

Since 2001

- More than 740.000 loans committed since 2001
- comittment volume 45bn EUR
- 2,1m housing units promoted

Since 2006

 CO2 reduction sums up to 156 bn tons

> Budget funds being recovered by additional revenues of taxes

^{*} safeguarded employment for one year

Lessons Learnt



Comprehensive system of incentives in Germany

- Regulation is baseline
- Harmonizing of regulation and promotion
- Information is crucial to raise awareness

KfW's eligibility criteria are linked to residential buildings

- All groups of investors can apply
- Incentives for different investor groups provided

Focus on interest subsidised loans

- provides capital and incentives
- Effective leverage on government funds

KfW-Efficiency House as brand for energy efficiency

- creates visibility and transparency

On-lending principle promotes scale up

- broad distributional network through retail banks
- local risk assessment







Contact Details



Gudrun Gumb
KfW Bankengruppe
Fon +49 69-7431-3831
Palmengartenstraße 5–9
60325 Frankfurt am Main

<u>gudrun.gumb@kfw.de</u>



Thank you for your attention!



Die Zukunftsförderer