

DEUTSCHE UNTERNEHMENSINITIATIVE ENERGIEEFFIZIENZ

Best practices (and rising stars)
to improve energy efficiency
(Lessons learned and to be learned in Gemany)

Baku, 18th Octobre 2016

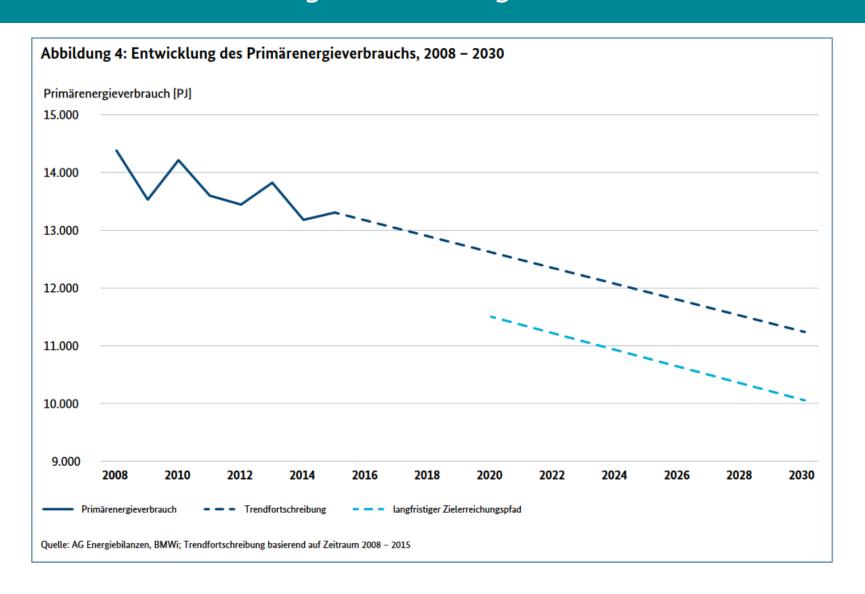
Time to put Energy Efficiency First: EU calls member states. Need to re-spin the "Energiewende" debate



Without massive energy efficiency progress the German Energiewende will become unafordable!

Source: BMWi 2010, BMUB 2010, AG Energiebilanzen 2013

Despite newly introduced efforts (NAPE) Germany will still fail to meet ist long-term EE targets



New Green Book asks stakeholders for additional political options to close the gap and stimulate EE market

Green Book Energy Efficieny



Questions

- How to put "energy efficieny first"?
- Need for an EE-act to set a level playing field and binding targets?
- Additional Instruments: flexi-tax, obligations?
- Role of EU-instruments?
- How to vitalize the ESCO market?
- Role of digitalization?

English Version available:

http://energycoalition.eu/sites/default/files/Green%20Paper%20Energy%20Efficiency.pdf

DENEFF's key asks:



34 promising policy options: b2b-EE networks, competitive tenders, energy saving meters and indiv. renov. roadmaps

B2B Energy Efficiency Networks



→ Promote as explicit eligible alternative for energy audits

Energy Saving Meters



→ Pilot funding mechanism on a metered NWh-Basis (like feed-in)

Competitve Tenders



playong field with renewables

Individual Renovation Roadmaps

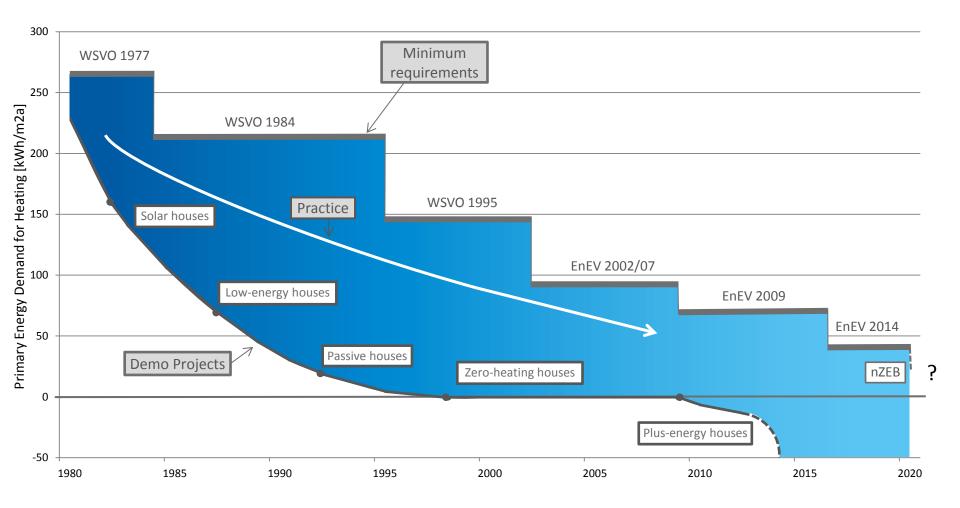


→ Give on-site building audits an individual long-term perspective

Backup

Evolution of energy-efficient building in Germany

Integrated approach of R&D, incentives, and standards drives market.



Source: Based on data from Fraunhofer IBP

Quid pro quo: Benefits for energy management systems

Energy Intentensive Companies

may benefit of

energy tax reliefs

or/
and

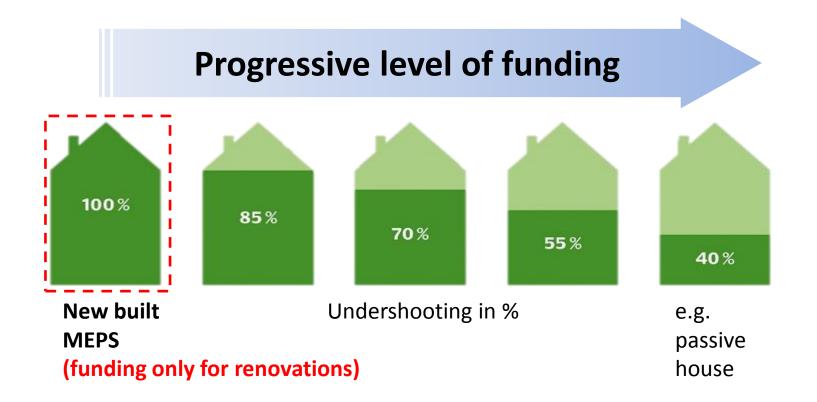
exemptions on renewables and grid levies

only if

ISO 50001 energy management system (or audits for SMES)

No obligation to implement at least implement cost-effective meassures! (next stept?)

Co-evolution of building-codes and funding standards



Please also note:

- scale effects to "most wanted" funding level increase
 cost-effectivenes and enable cost-effective future standards
- standards "KfW-Effizienzhaus x" also works as label e.g for resale

The next big thing: competitive tenders

How it works

Tendering Energy efficiency

- Awards those market actors who safe the most energy (by measures) at the least costs
- Complements existing instruments
- Activates innovation and searching capabilities of the market

International practices



- Switzerland (ProKilowatt)
- Portugal (PPEC)
- USA (Efficiency Vermont, Efficiency Maine...)
- UK: Pilot with Peak-EE
- Germany: Start 2016 (envisages also heat)



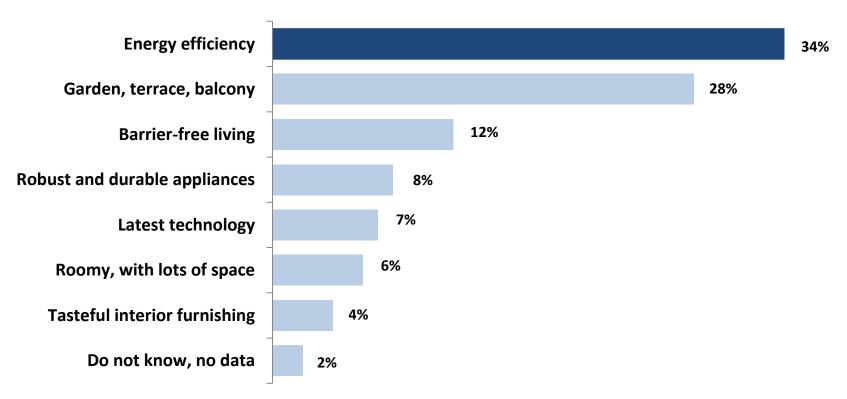
Ludwig Erhardt would love it!

Create the right political frame for a vital energy efficiency market

Energy-efficient building in Germany

• Energy efficiency trumps all other home features for Germans.

What is important to Germany when building a house?

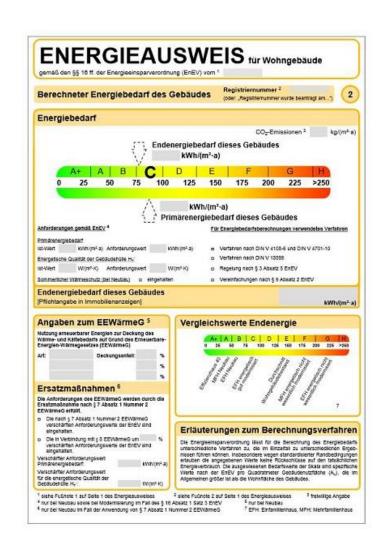


Source: E.On 2014

Building energy performance policy

• Germany uses a mix of requirements, information, and incentives to improve the performance of the building stock.

- Maximum allowed primary energy needs in new bldgs – NZEB from 2021 (EU)
- Regulation of permitted heat transmission losses of the building envelope (and of components after major refurbishments)
- Performance standards for building technologies (HVAC) + mandatory renewable heating in new buildings
- Mandatory energy performance certificates
 (EU)
- Attractive incentive programs for those who go beyond minimum standards!



German Energy Efficiency Regulation

- Residential reference building valid 2009-2015.
- From 2016, new buildings must be 25% more efficient.

