

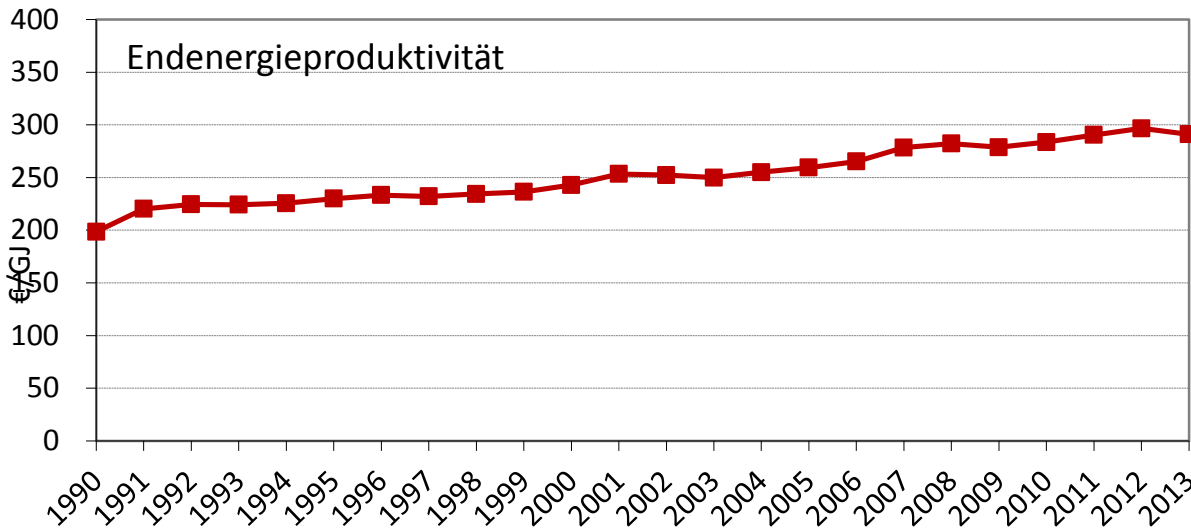


Best Practice Policies for Promoting Energy Efficiency
Christian Noll, DENEFF (Germany)

Geneve, 6th November 2015

After some initial progress in EE improvements Germany is lagging massively behind (10fold improvements needed!)

Ziel: Target EP improvement at 2,15 % p.a.



IS: 0,26 % p.a.
(2008-2013)

Entwicklung der temperatur- und lagerbestandsbereinigten gesamtwirtschaftlichen Endenergieproduktivität
Quelle: BMWi Fortschrittsbericht zur Energiewende, Dezember 2014

Reduktion des Energieverbrauchs und Steigerung	IS	effi: 2020	2050
Primärenergieverbrauch (gegenüber 2008)	-3,8 %	-20 %	-50 %
Endenergieproduktivität	0,2 % pro Jahr (2008-2013)	2,1 % pro Jahr (2008-2050)	
Bruttostromverbrauch (gegenüber 2008)	-3,2 %	-10 %	-25 %
Primärenergiebedarf (gegenüber 2008)	-5,5 %		in der Größenordnung von -80 %
Wärmebedarf (gegenüber 2008)	+0,8 %	-20 %	
Endenergieverbrauch Verkehr (gegenüber 2005)	+1 %	-10 %	-40 %

Existing Policies

**„Most effective“
*according to NEEAP***

1. Energy Taxes
2. Building Codes
3. EEG (RES levy)
4. Grid Charges
5. KfW scheme

Mostly based on

- 1970s energy crisis (e.g. building codes)
- 2007 climate package (e.g. KfW funding)
- 2011 Fukushima (e.g. targets)
- 2012 EU-Directive (EED)

***Catatstrophies, not reason
is the main driver!***

Quid pro quo: Benefits for energy management systems

Energy Intensive Companies

may benefit of

energy tax reliefs

or/
and

**exemptions on
renewables
and grid levies**

only if

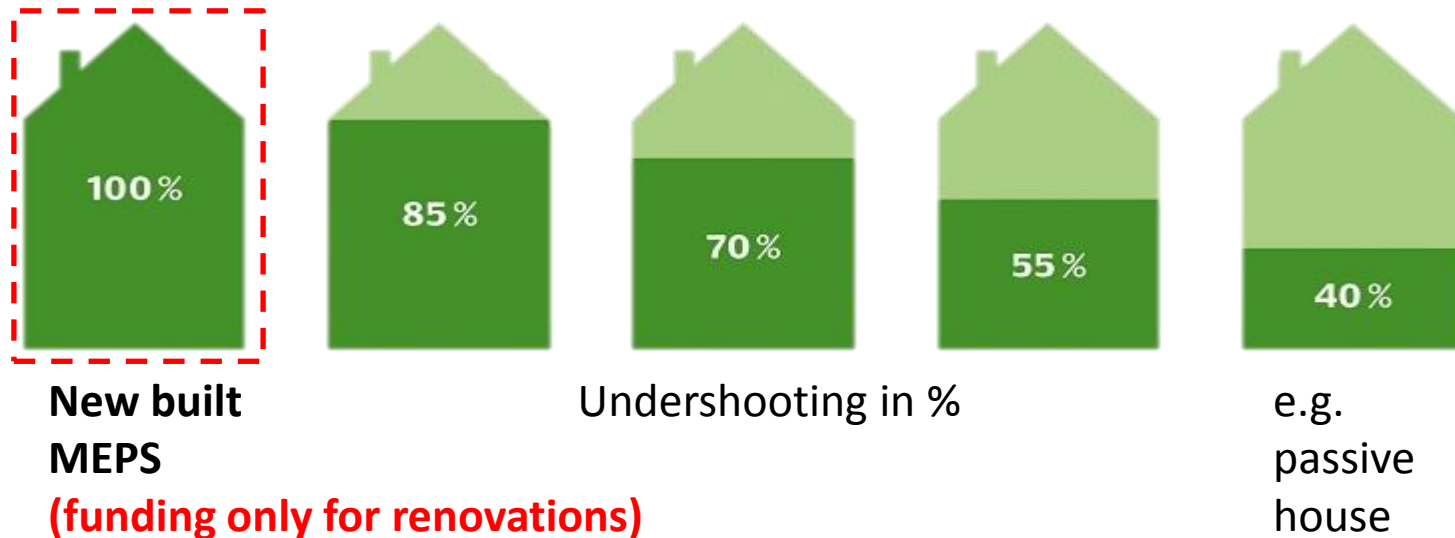
ISO 50001 energy management system

(or audits for SMES)

***No obligation to implement at least
implement cost-effective measures!
(next step?)***

Co-evolution of building-codes and funding standards

Progressive level of funding



Please also note:

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

The next big thing: competitive tenders

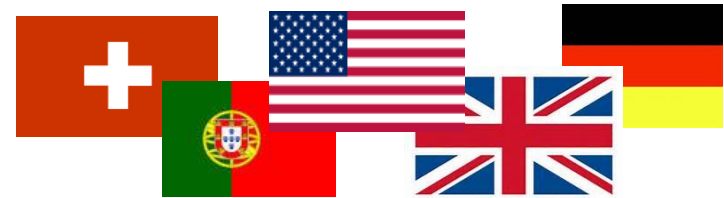
How it works

Tendering Energy efficiency

- Awards those market actors who save 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