Accelerating energy efficiency activities in the manufacturing sector

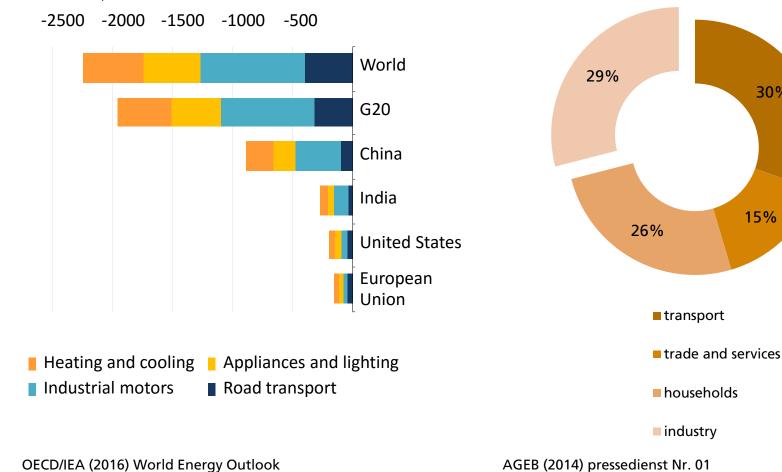
Panel 5: Business models and financing





GHG emission savings from energy efficiency for the "2°C-aim", 2030

Mt CO_{2--eq}



Final energy consumption in Germany divided by sectors



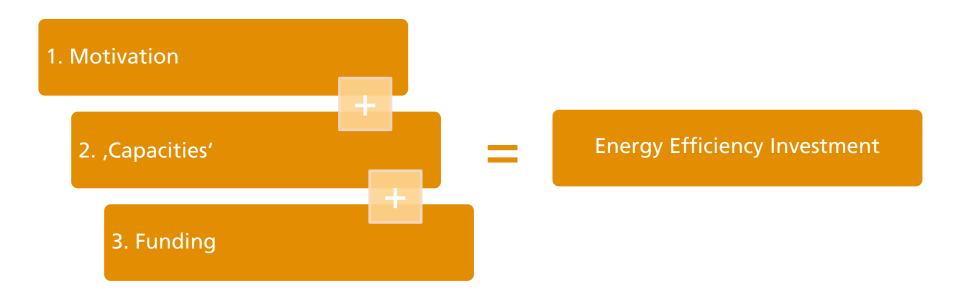
30%

15%

ECEEE - Industrial Efficiency 2016, Berlin

Requirements

for energy efficiency investments in the industry sector









Try to establish a "Craving for Efficiency".

Don't: Policies should not force companies to implement energy efficiency investments, but

- identify motivation & underlying company values
- identify barriers which reduce energy efficiency activity, like transaction costs, too long payback periods or policy barriers

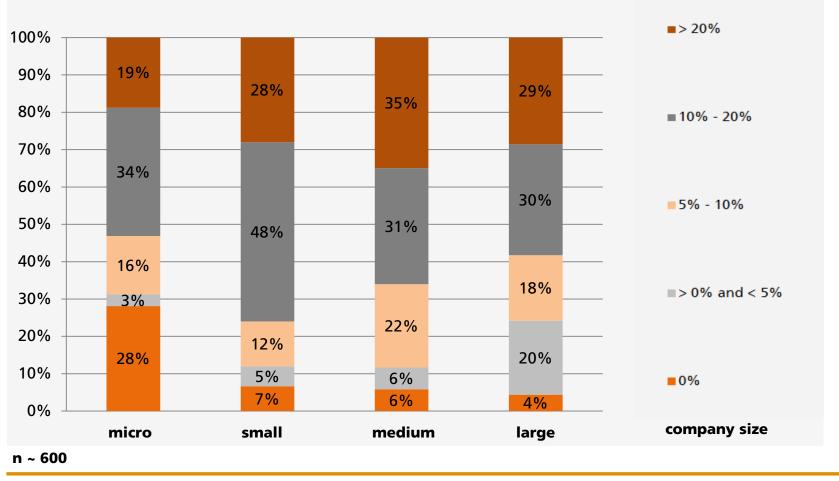
Do: Structurally integrate energy efficiency in the thinking of decision makers! Make successes visible.

- Competitors will soon realize what additional profit and competitiveness they can achieve through energy efficiency
- This might kick-start a "viral" upscaling of energy efficiency investments in the industry



Example: 6th Energy Efficiency-Index of the German Industry

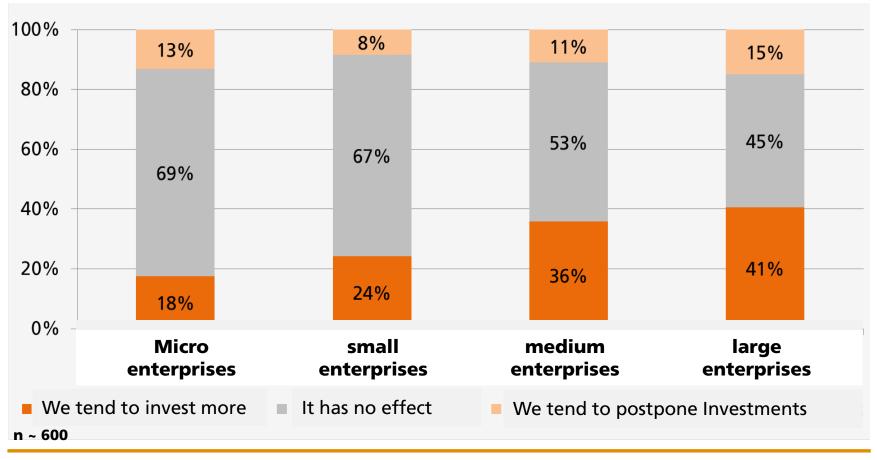
What share of the overall planned investments over the next twelve months will be allocated to energy efficiency measures?





Example: 6th Energy Efficiency-Index of the German Industry

Which influence has a decrease of energy costs on planned energy efficiency investments?





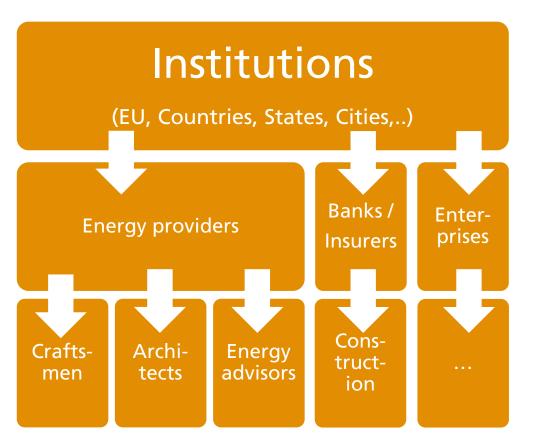


- "Change through anticipative steering" ...
 - does not only need conciousness and capability of the companies themselfes,
 - but also of all other acteurs who are involved in the energy efficiency investment process,
 - i.e. government departments, technology suppliers, energy providers, architects, craftsmen, constructeurs, energy advisors, banks and insurances.
- > "Capacity building" is crucial for the "Energiewende"!



Different stakeholders cater for different aspects:

Mulitple ,Capacities of Energy Efficiency':



Different types of knowledge are needed in different dimensions

Strategic Level Policies, Laws, Regulations, Frameworks

Service-/Advice (...) Level Conciousness, Advise, ..

Operational Level

Note: arrows underline that there are different levels, not a structural link between specific ones of them





Policies and Support Programmes must not be general.

- they should focus on the needs and the value system of the companies.
- They should be tailored to serve a specific focus (e.g. tailored medicine vs. broadband antibiotics)

E.g. Small investments are not viable enough for banks, due to transaction costs

- Create a pool of similar energy efficiency investments to increase the scale of the investment and ist profits.
- Companies can be clustered through already existing energy efficiency networks in Germany

More Details: Boosting industrial energy efficiency investments through distributed internal fund in (b2b) Energy Efficiency Networks (EEN) – Panel 5, Tuesday 9am.





Thank you for your attention.

Any Questions?

Dipl.-Volkswirt Stefan M. Buettner

Institute for Energy Efficiency in Production Nobelstraße 12 | 70569 Stuttgart Telefon +49 711 970-1156

stefan.buettner@ipa.fraunhofer.de stefan.buettner@eep.uni-stuttgart.de

www.ipa.fraunhofer.de www.eep.uni-stuttgart.de





