



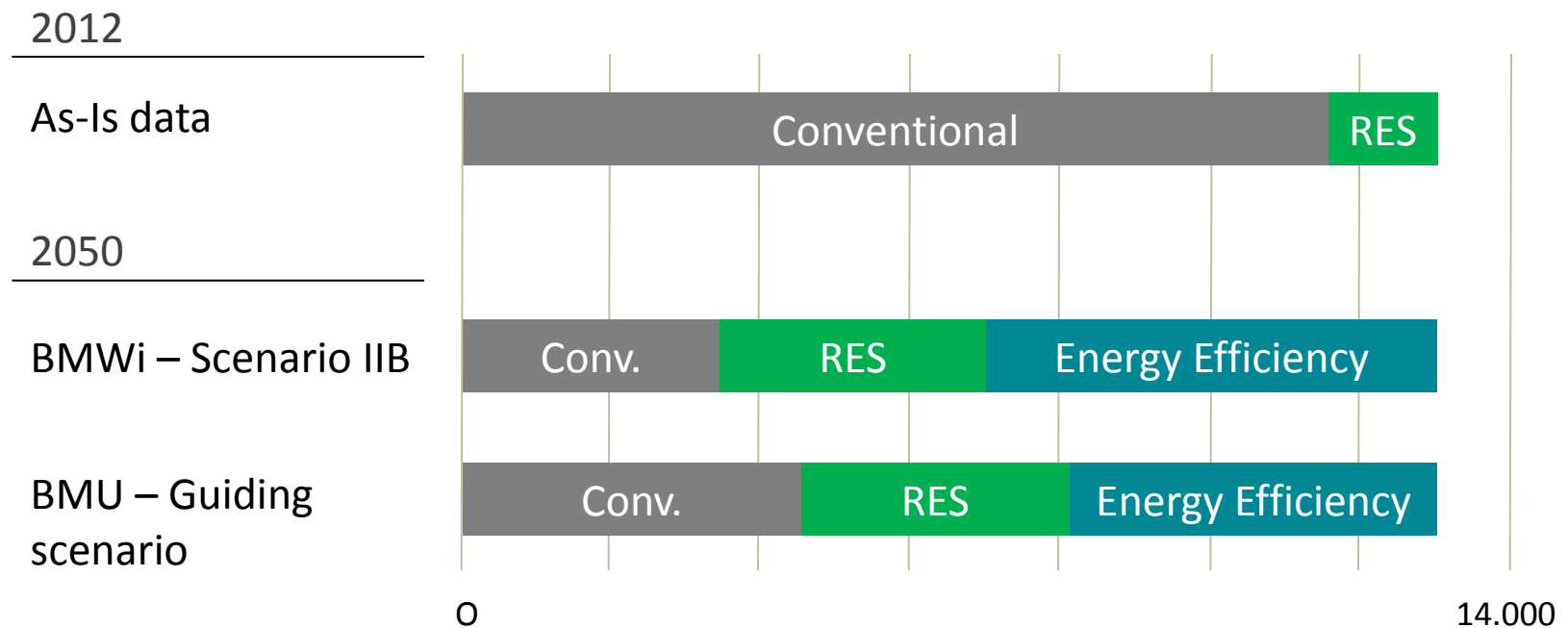
UNECE Sustainable Energy Week 2014  
Group of Experts on Energy Efficiency

Input on: „**Why energy efficiency is not improving fast enough**”  
Christian Noll, DENEFF (Germany)

Geneve, November 17, 2014

# Economic Precondition to Germany's Energiewende: A Reducton of energy consumption by ~50 % until 2050

Primary Energy Consumption 2012 versus 2050 in Germany  
by Energy Sources (in PJ/a)

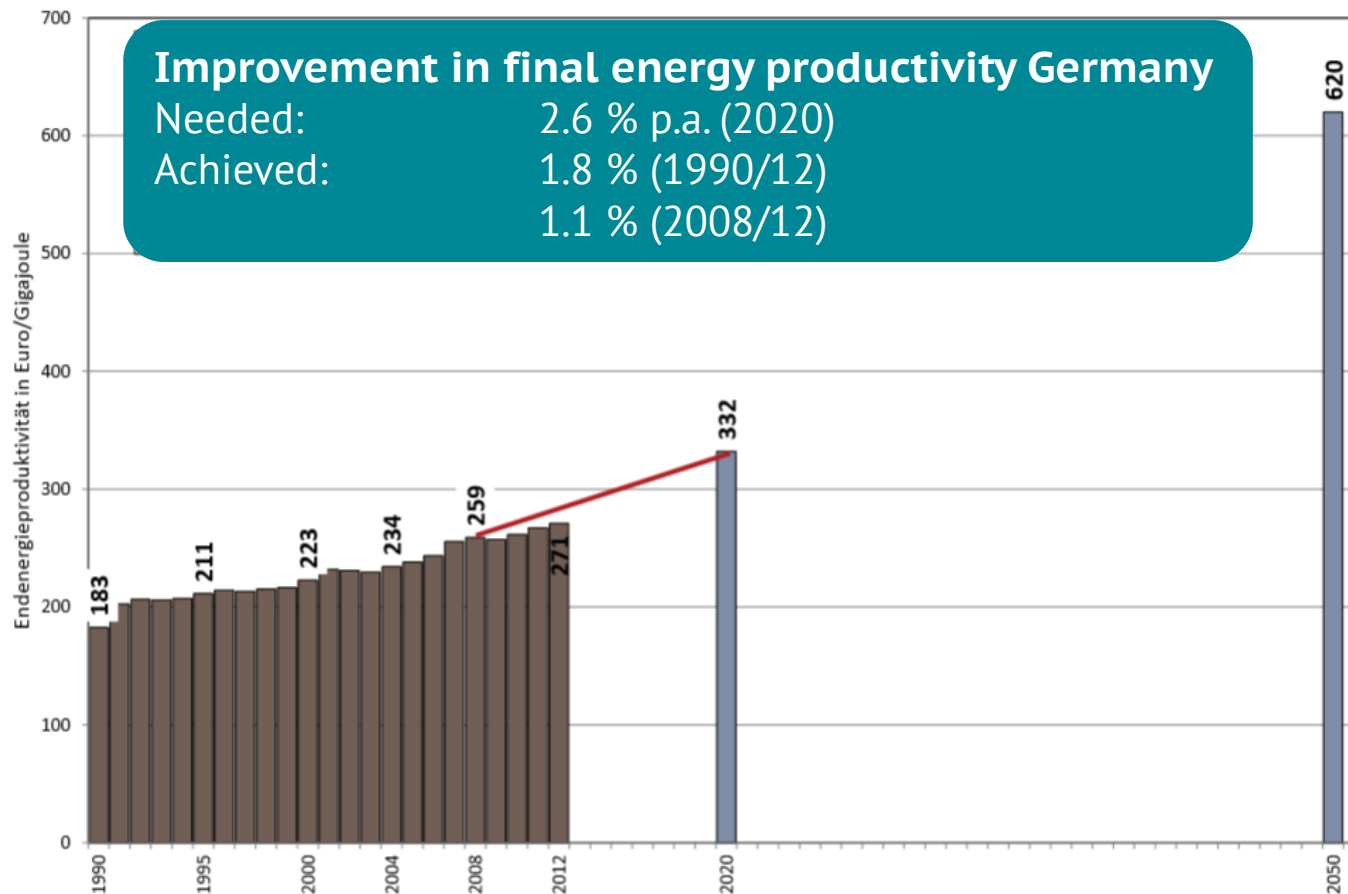


>> Energy Efficiency must Become Biggest Energy Resource

# Various targets/indicators are part of energy concept. Danger of shortfall due to slow policy implementation

## Specific targets for 2020 and 2050 on:

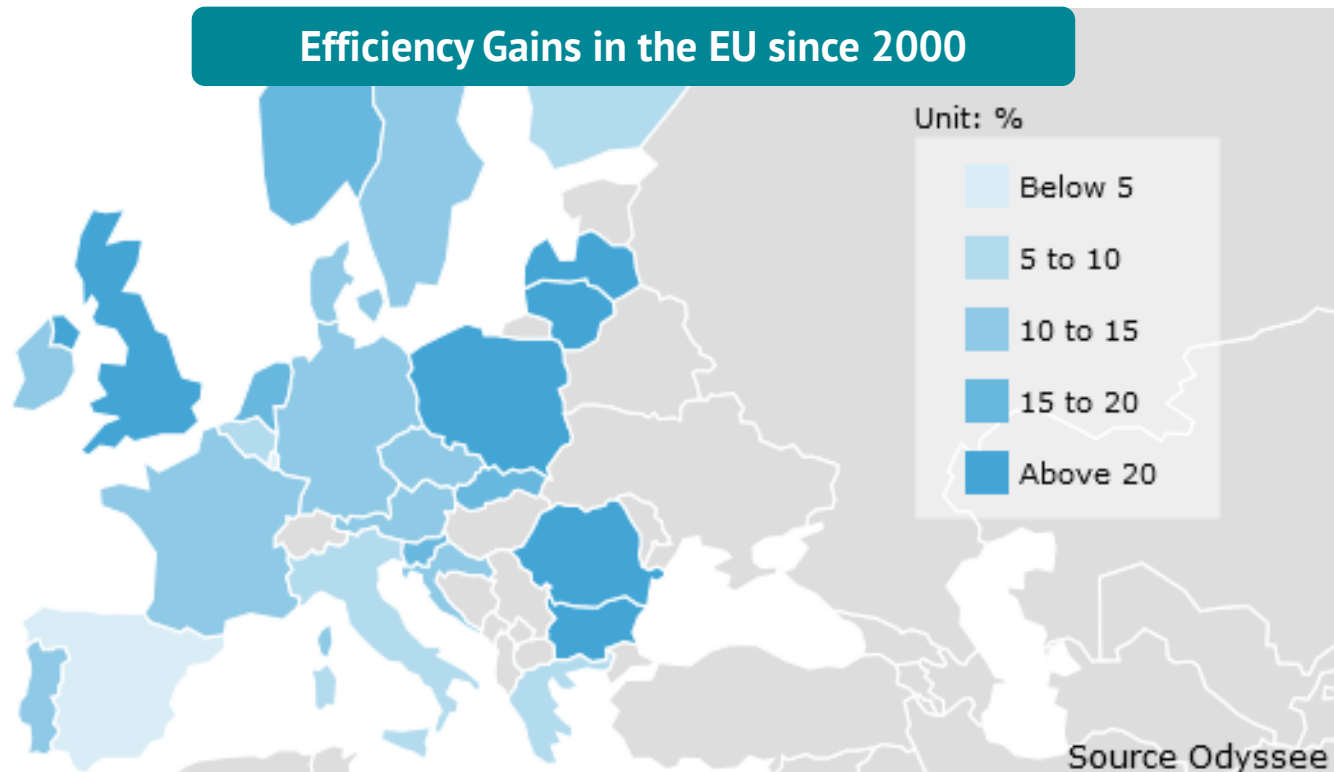
Primary energy consumption, final energy productivity, electricity use,  
heat demand (buildings) → **but now aggregated index / target**



**Source:**

Experts Commission on  
Monitoring Energiwende

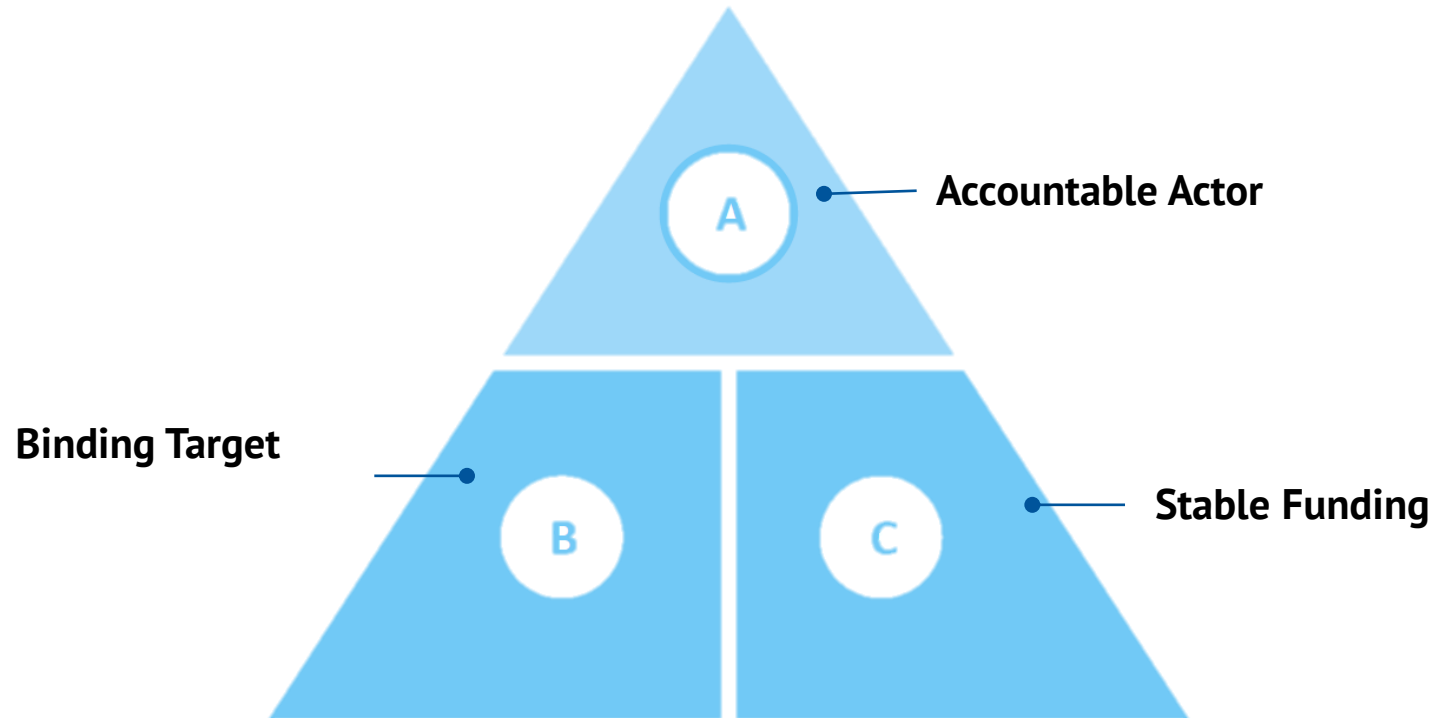
# Odysee Database monitors trends in energy efficiency showing i.a. CEE significantly catching up since 2000



Odysee is using a composite energy efficiency index (ODEX) as a weighted average of sub-sectoral indices of energy efficiency progress

<http://www.indicators.odyssee-mure.eu>

# Beyond metrics: Overarching success factors for a striking EE policy



Source: The CO-Firm (2012): MEAS

## As addressed by:

- Energy Saving Obligations (Various Regions: US-States, Chile, EU-EED (Option))
- „Energy Efficiency Utilities“ (Vermont, Maine)
- Denmark (Combination of legally binding target and measures, i.e. DSO-obligation)

