

# Citizen Power in the German Energiewende

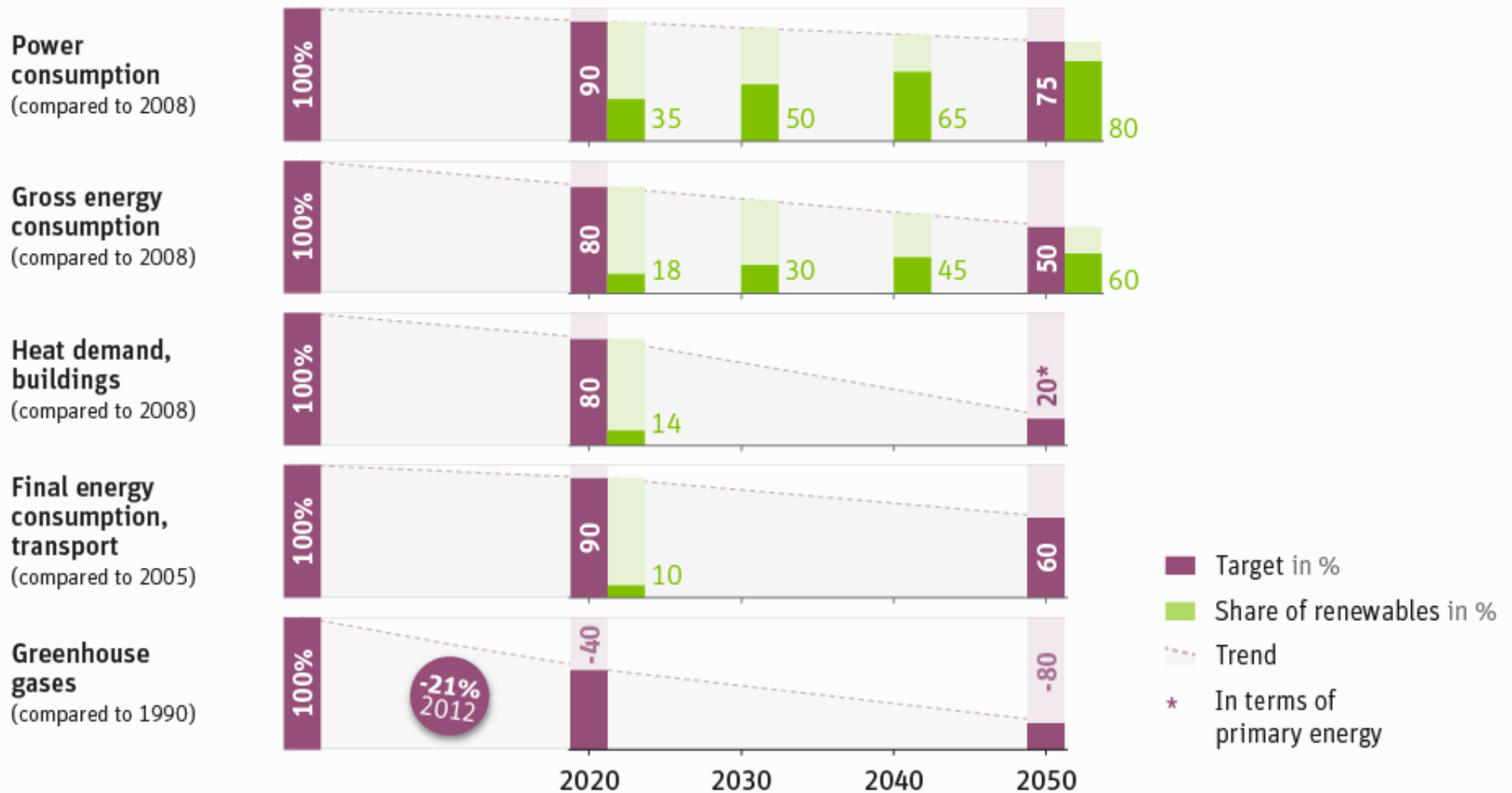


*by Arne Jungjohann, Policy Adviser  
Launch of NESC Report: Wind Energy in Ireland  
Dublin, July 4, 2014*

# German energy transition: high certainty with long-term targets

Long-term, comprehensive energy and climate targets set by the German government in 2010

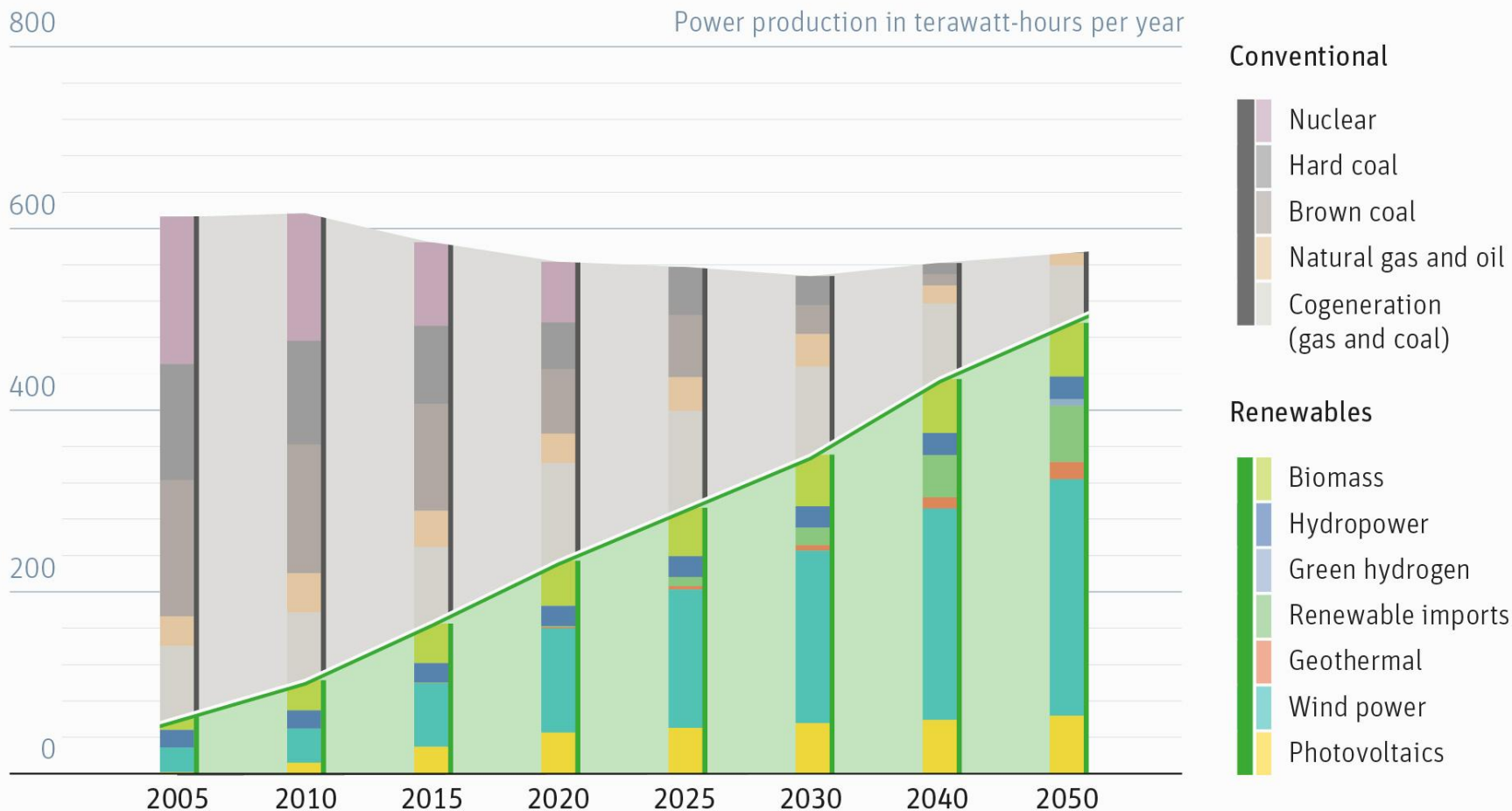
Source: BMU



# Germany's plan: switch from coal and nuclear to renewables

Electricity generation in Germany 2005-2050, scenario

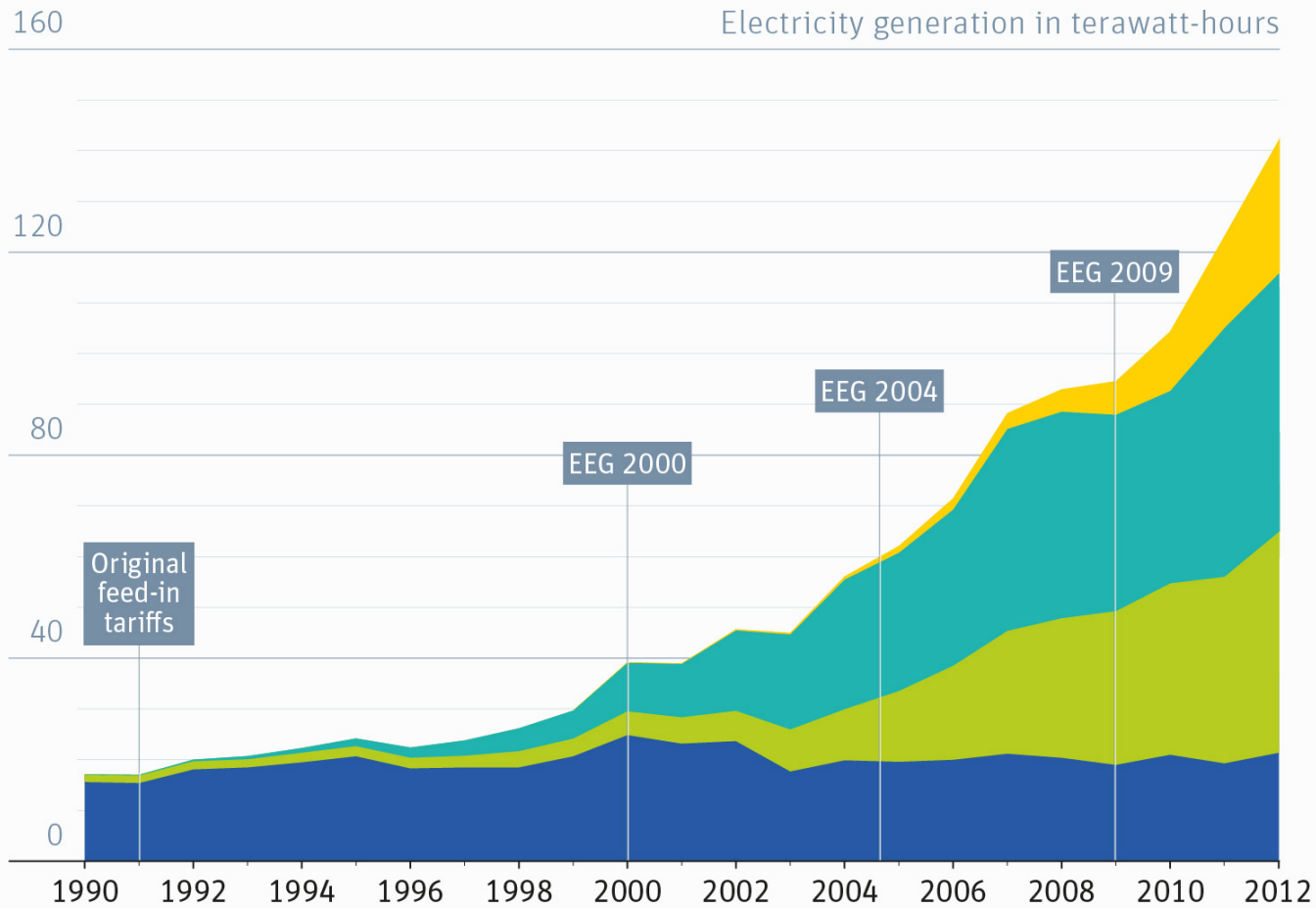
Source: DLR and Fraunhofer IWES



# Feed-in tariffs grow renewables

Renewable electricity generation in Germany, 1990-2012

Source: BMU



**23%**  
renewables  
by 2012

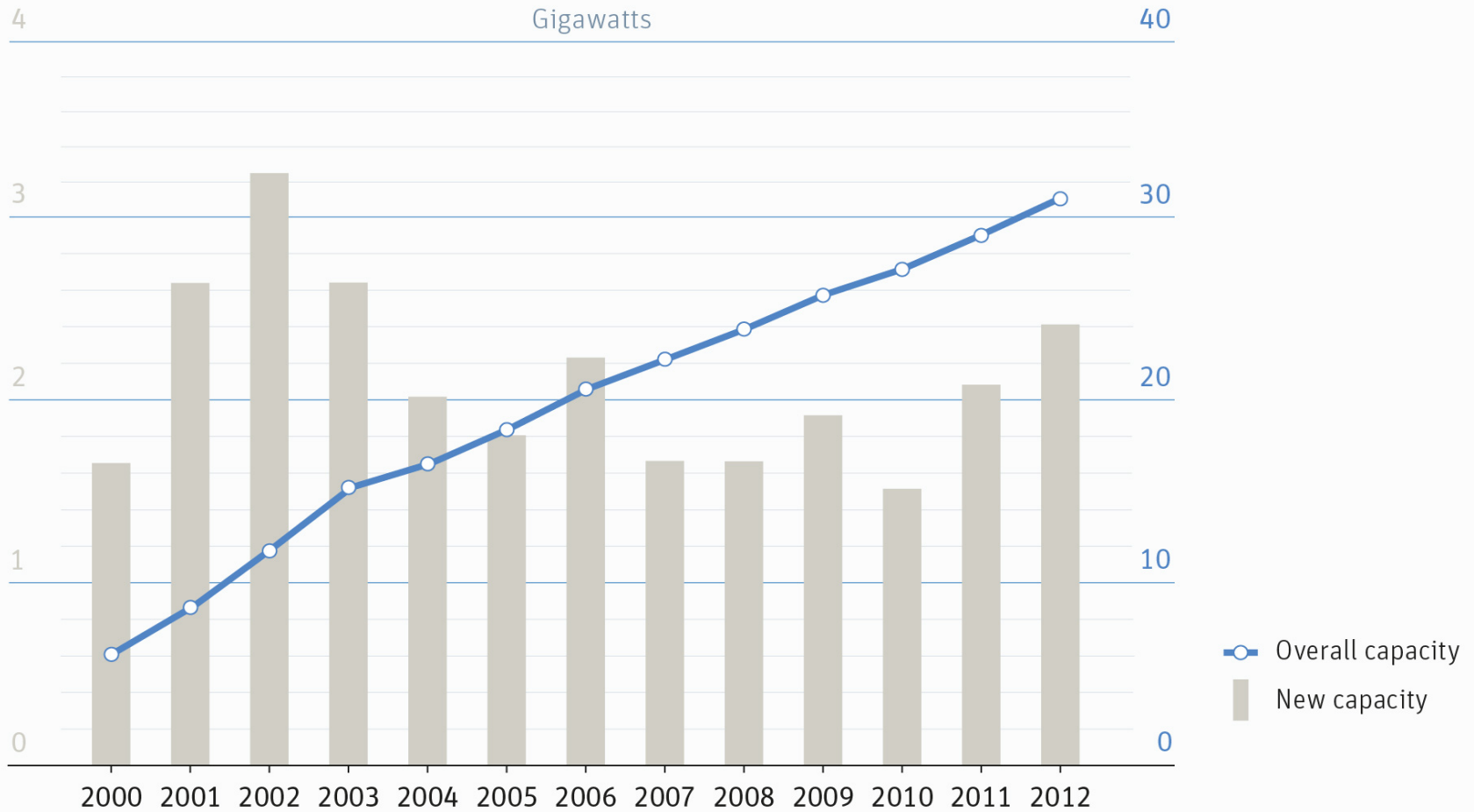
## Renewables

- Photovoltaics
- Wind power
- Biomass
- Hydropower

# Germany has steady wind power growth

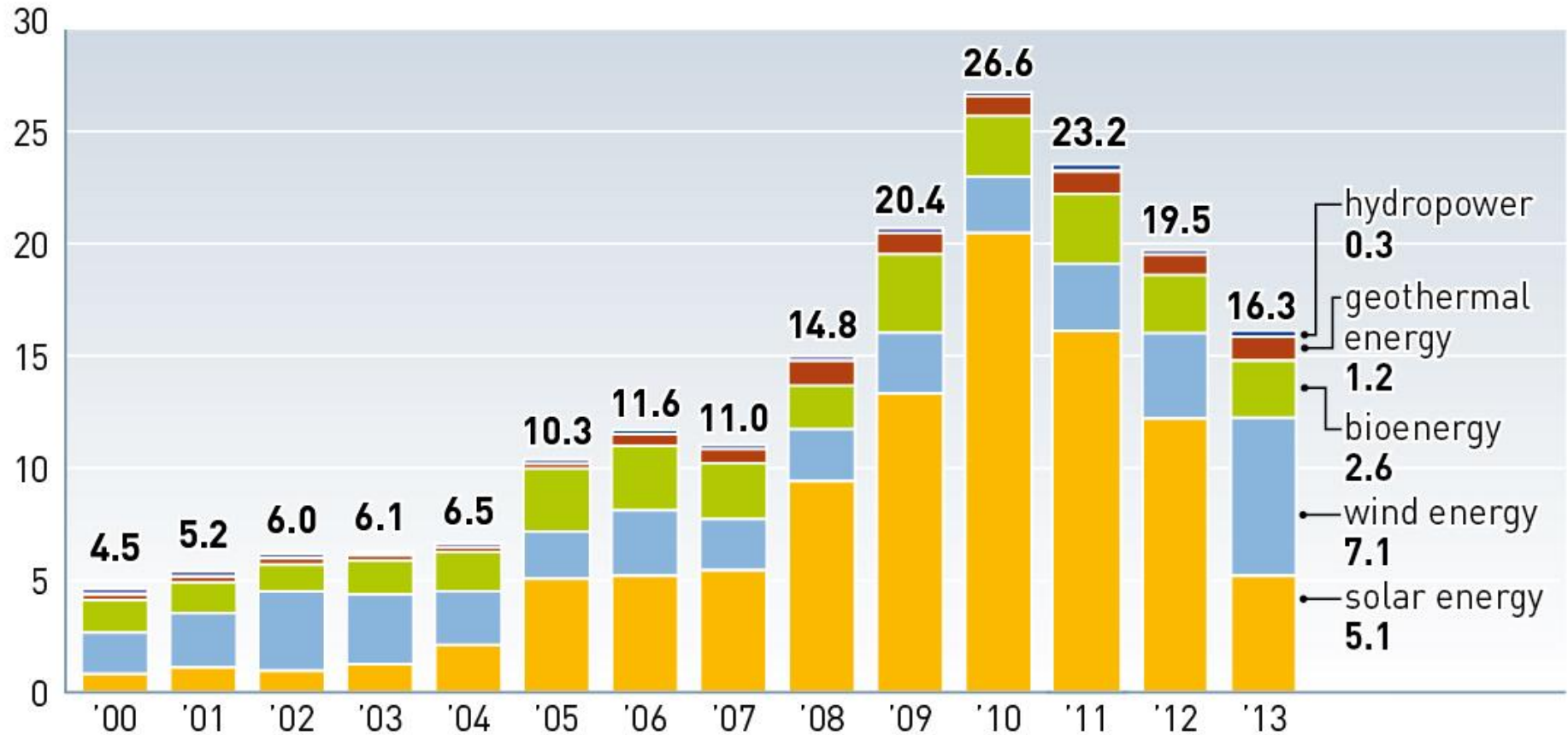
Cumulative and newly installed wind power capacity in Germany, 2000-2012

Source: DEWI



# Investment in RE installations 2000-2013

billion euro



Sources: federal government, AGEE-Stat;  
as of 05/2014

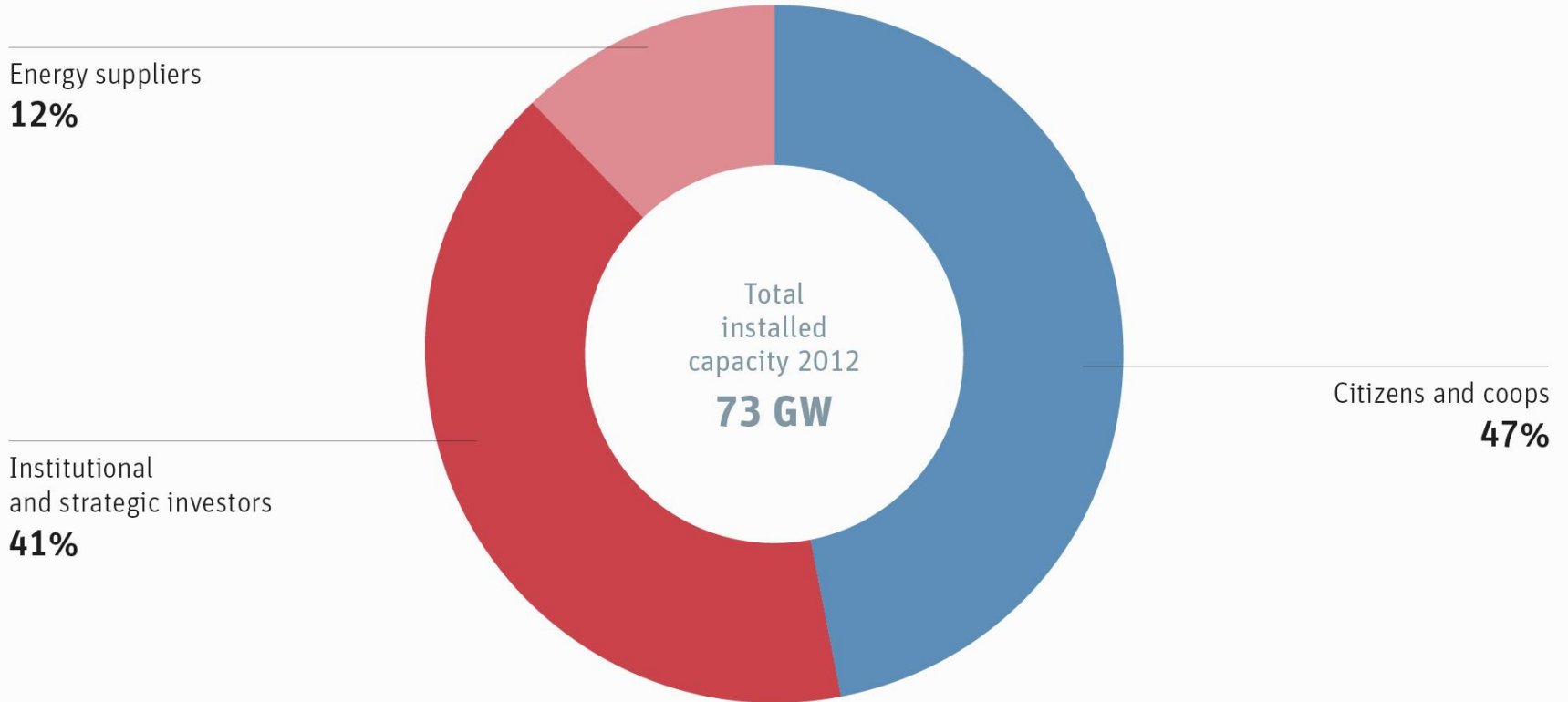
[www.renewables-in-germany.com](http://www.renewables-in-germany.com)



# German energy transition is a democratic movement

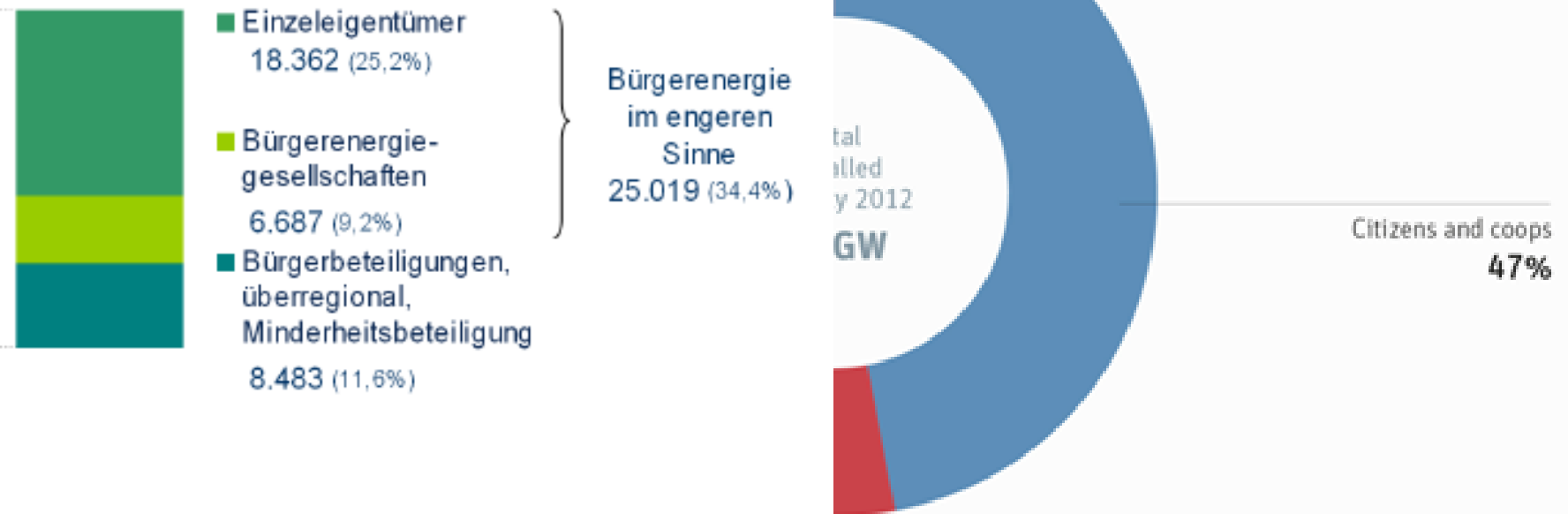
Ownership of renewables in 2012

Source: AEE, [www.unendlich-viel-energie.de](http://www.unendlich-viel-energie.de)



# 47% Renewable Citizen Energy

- individual owners (18GW);
- cooperatives & Co (6GW);
- [- minority shares, transregional 8GW]





# 50% of Germany's installed onshore wind power capacity is citizen-owned

Installierte Leistung Windenergie (Onshore)  
nach Eigentümergruppen in Deutschland 2012 in MW  
(gesamt 30.854 MW)

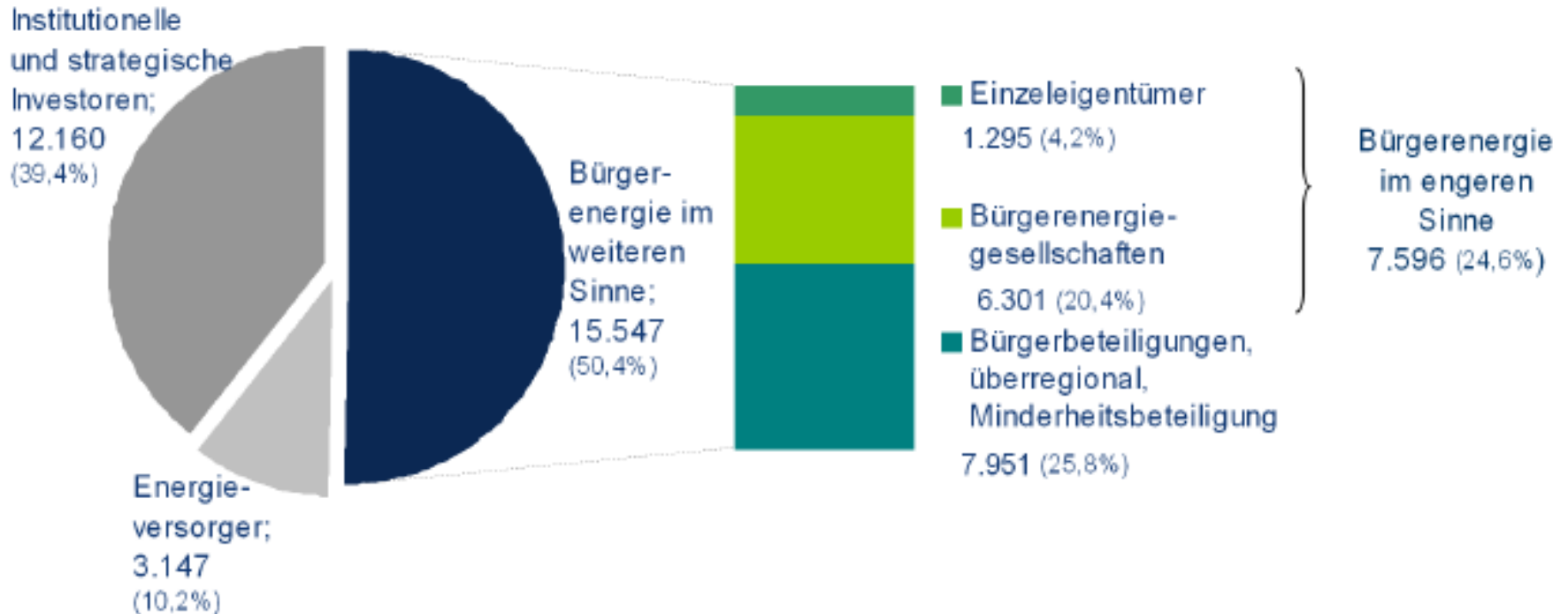
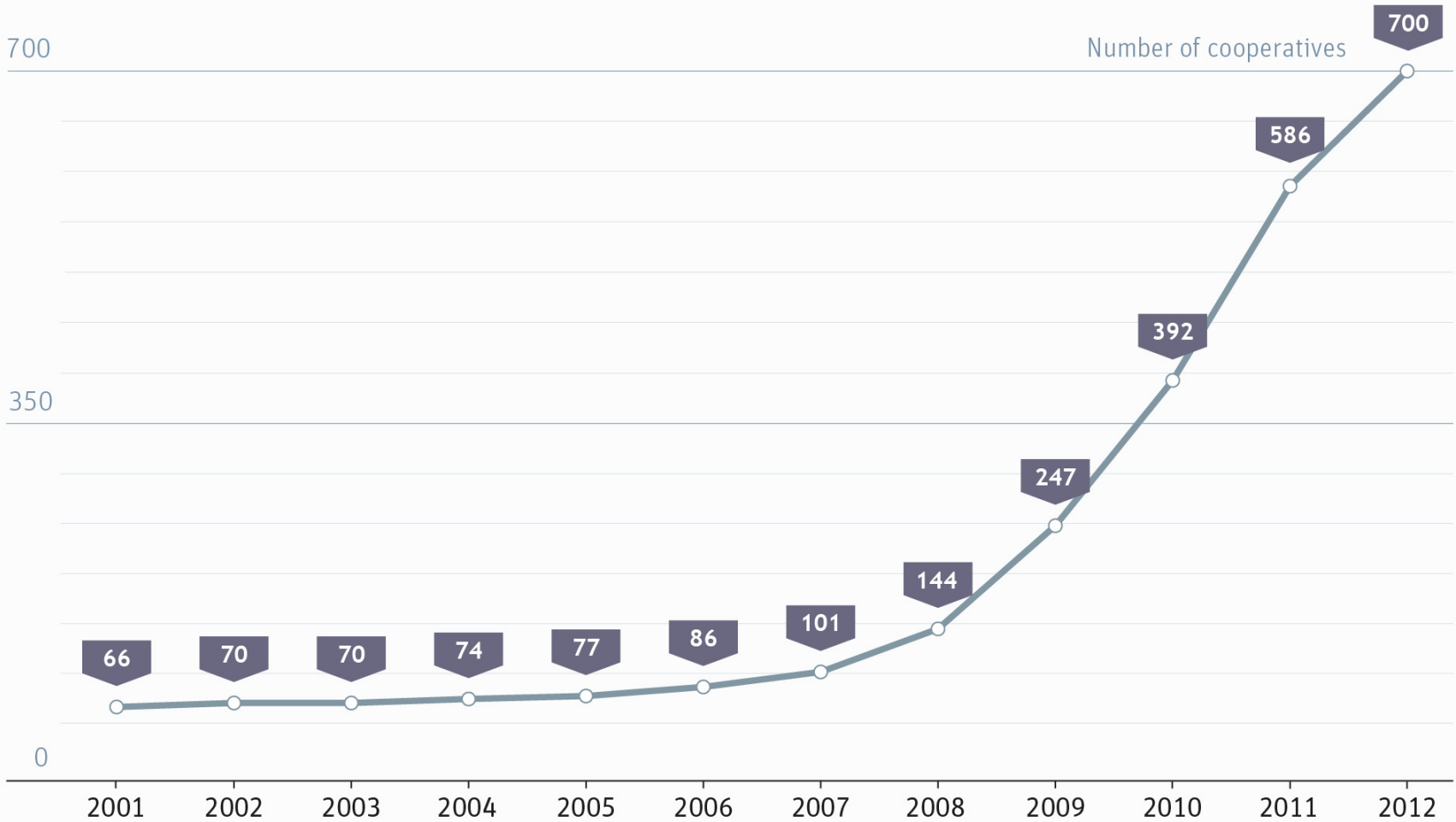


Abbildung 10: Anteile an der installierten (Onshore-)Windenergieleistung (Quelle: trend:research)

# Citizens form cooperatives to drive the energy transition

Number of energy cooperatives in Germany, 2001-2012

Source: [www.unendlich-viel-energie.de](http://www.unendlich-viel-energie.de)



# Most cooperatives in wind

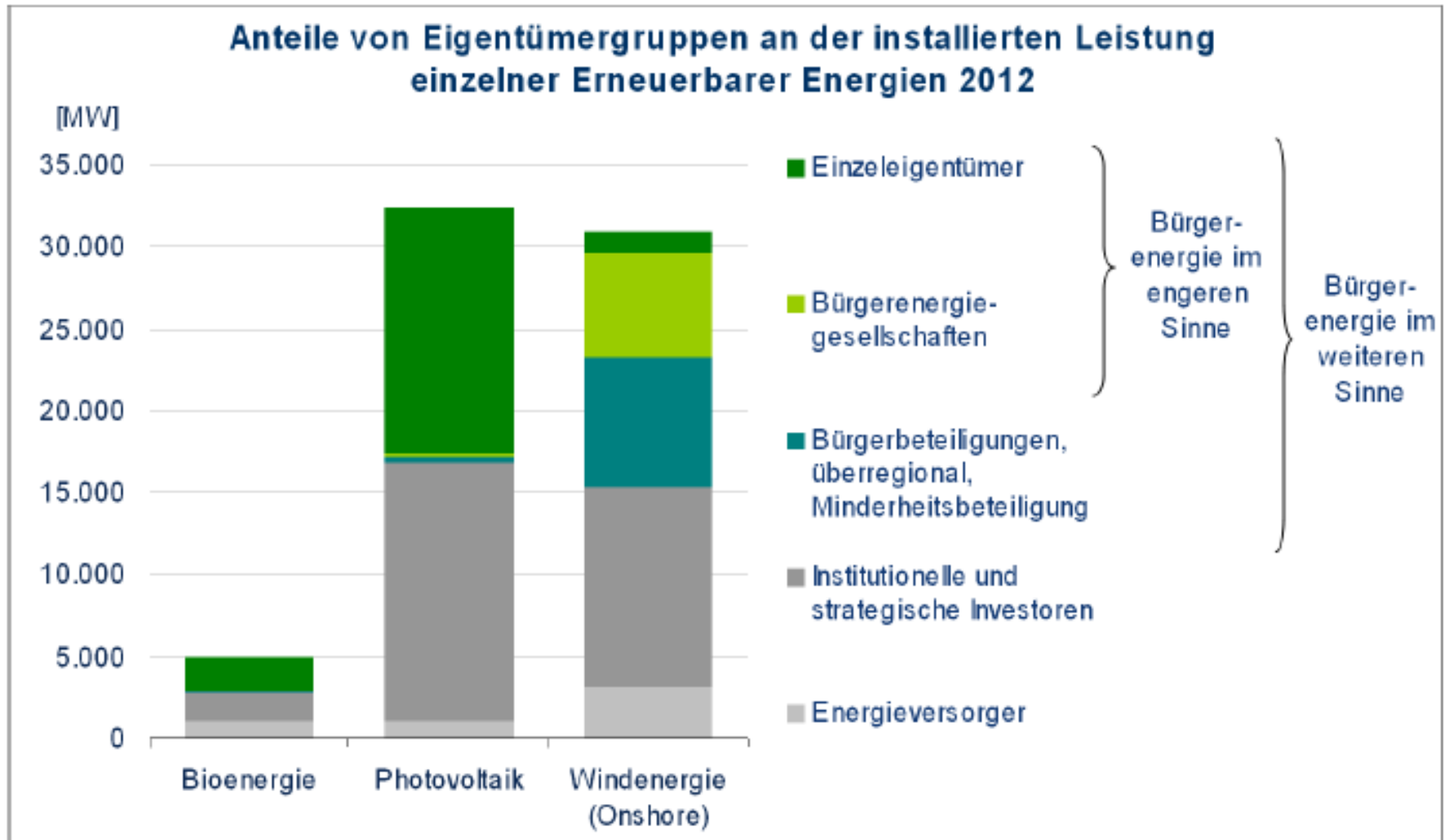
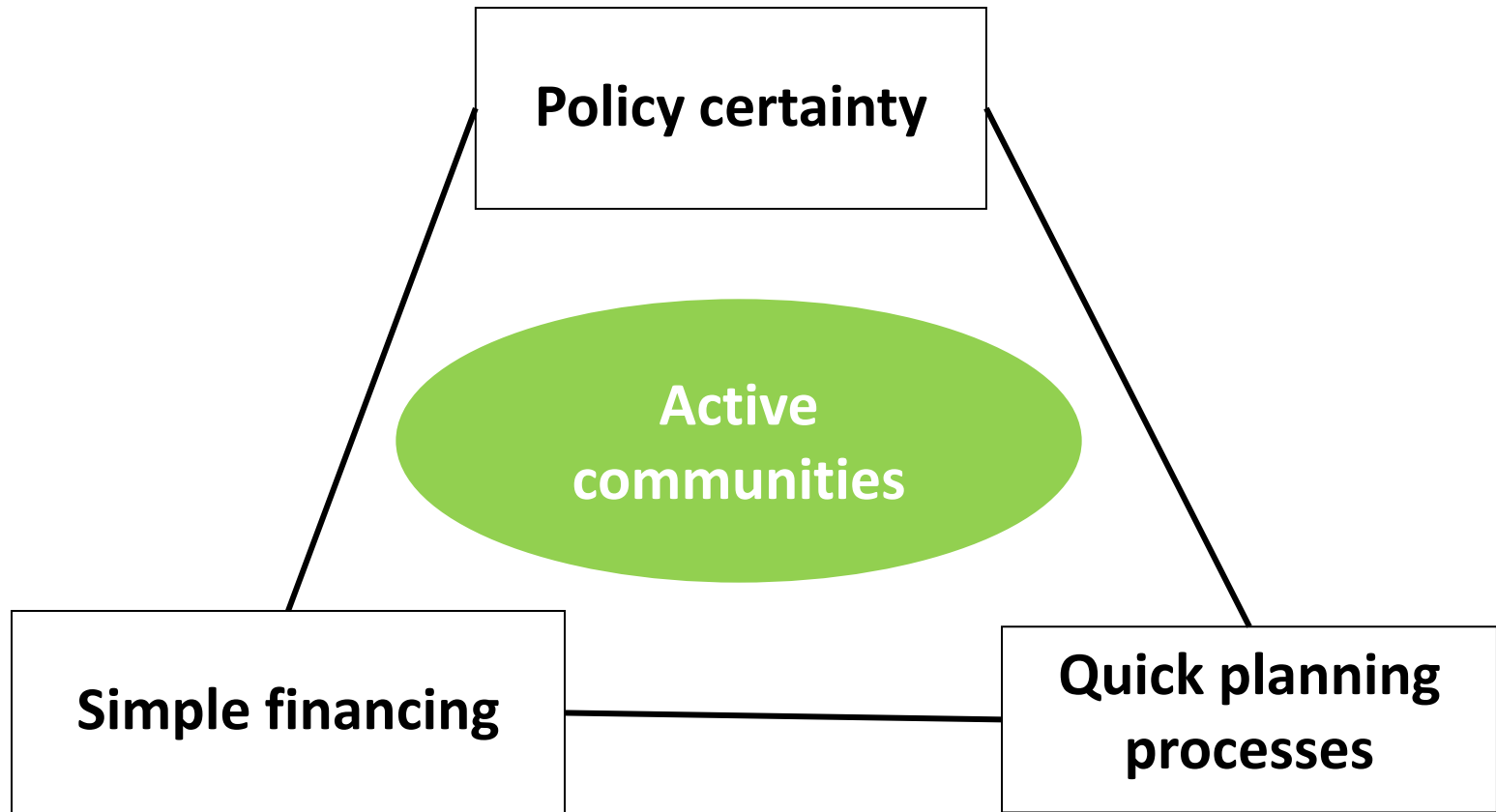


Abbildung 7: Anteile an der installierten Leistung einzelner Erneuerbarer Energien (Quelle: trend:research)

# The success to Germany's citizen driven Energiewende



## Conclusion:

**The German Energiewende empowers citizens to produce their own energy and drive the transition to a renewable energy economy.**

[www.EnergyTransition.de](http://www.EnergyTransition.de)

Twitter: @EnergiewendeGER

**Energy Transition**  
**The German Energiewende**

