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The Role of Community Power in Germany's Energy Transition

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German Renewable Energy Federation



BEE – The strong voice of the German Renewable Energy sector



The German Renewable Energy Federation (BEE) is the umbrella organization for German renewable energy associations. The federation was founded in 1991 and represents the overall interests of the renewable energy industry in the political and public sphere. We stand for 340,000 jobs. Our objective: 100 percent renewable energy.

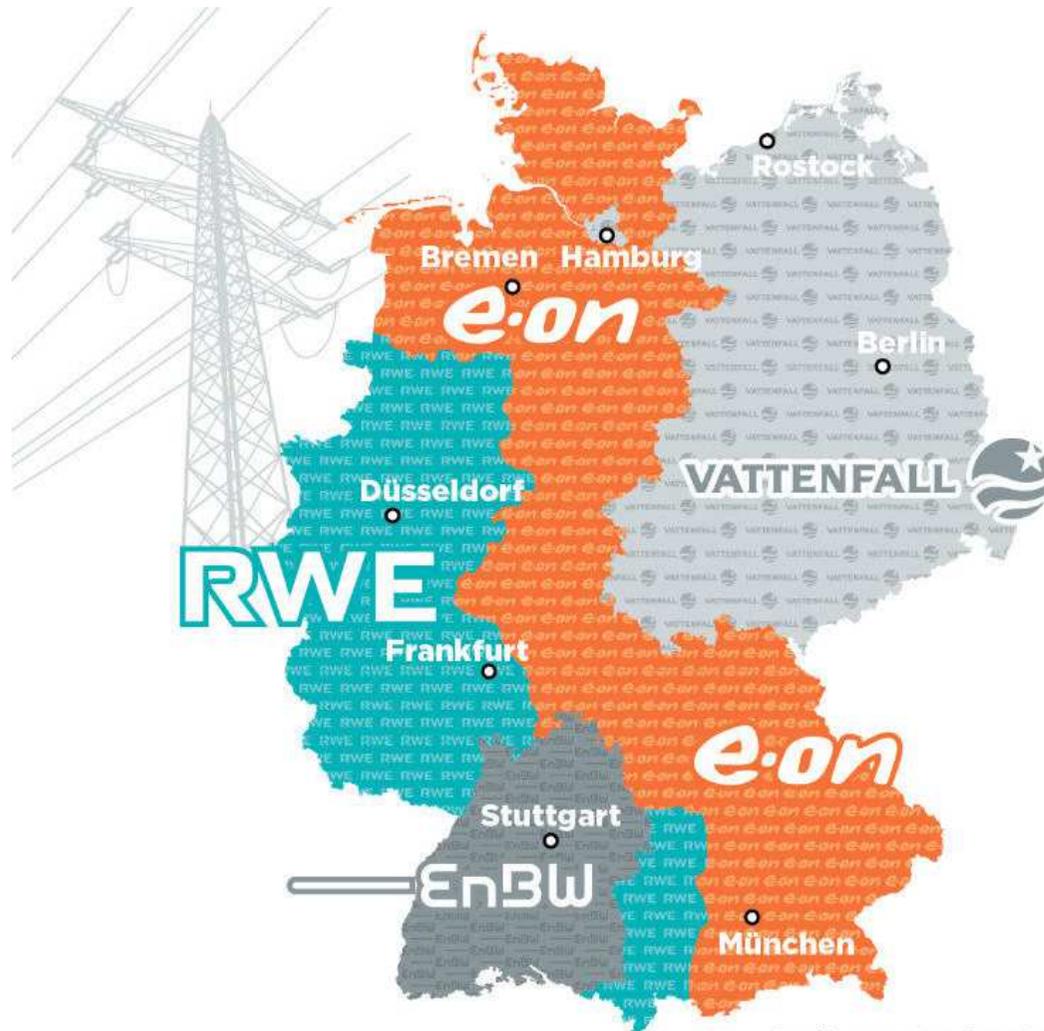


Förderkreis Biogas e.V. | OWAG Ostbayerische Windanlagen GbR



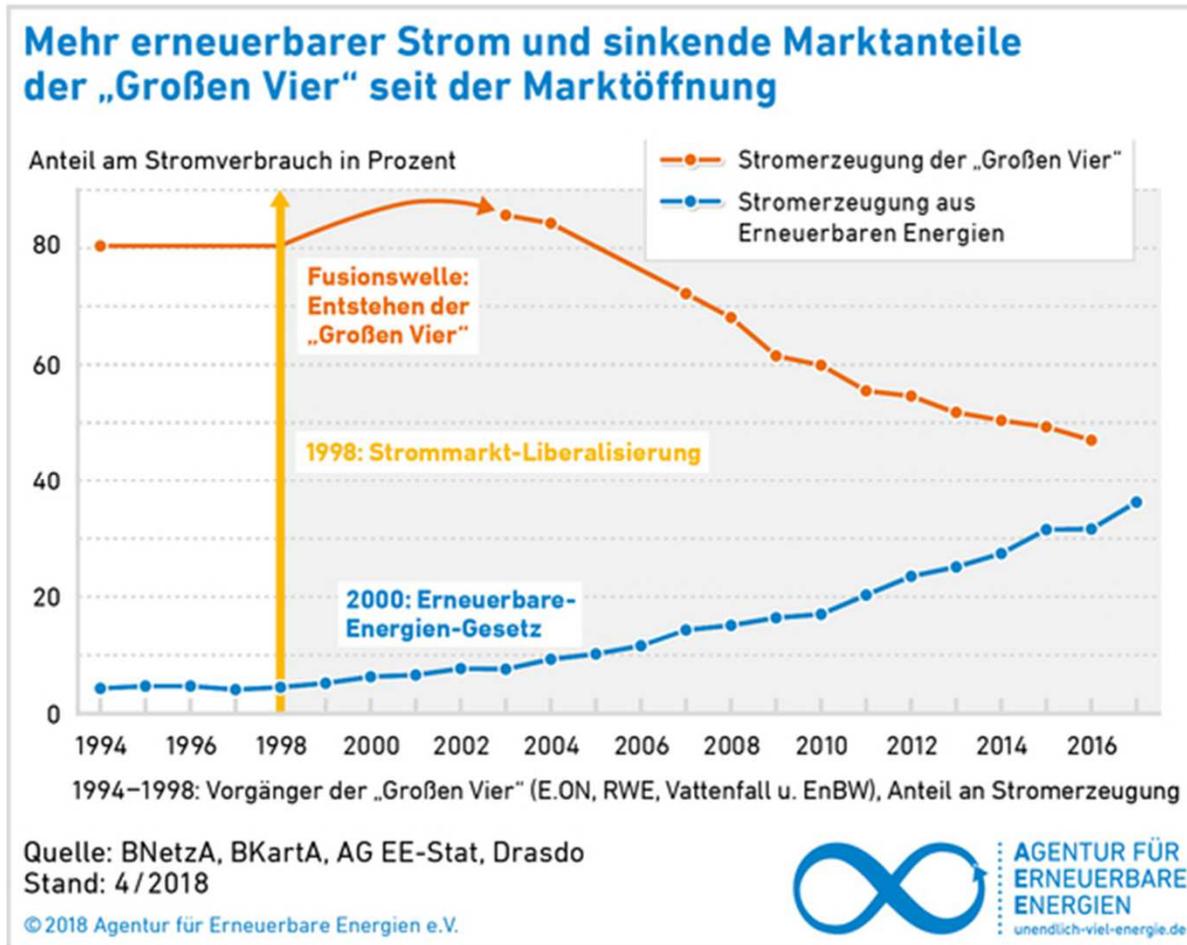
The transition to Renewables startet with the electricity market opening and the German Renewable Energy Act.

In the past,
the “big four”
dominated the
energy market in
Germany.



Quelle: next-kraftwerke.de

The transition to Renewables reduced the market share of the big four...



..and democratized the energy sector.



**The German
energy transition
was largely shaped
by community and
citizen power.**

The number of community energy companies and energy cooperatives increased.

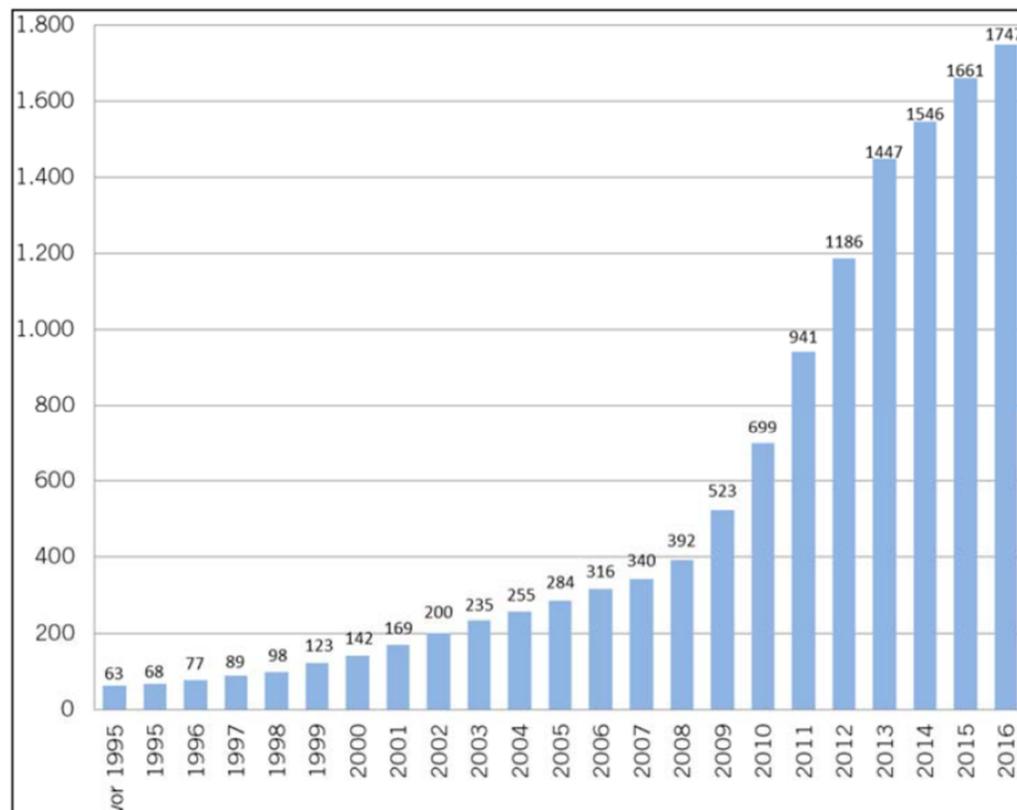
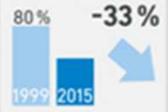
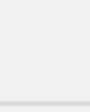
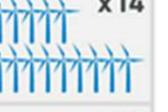
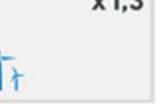


Abb. 1: Bestand an Bürgerenergiegesellschaften nach Jahren



The transition to Renewables in Germany benefits from the early electricity market opening.

Stärkerer Wettbewerb und mehr Erneuerbare Energien in EU-Ländern mit früher Strommarktöffnung

Strommarktöffnung für Endverbraucher seit dem Jahr ...	Anzahl Strom-anbieter	Endverbraucher, die ihren Strom-anbieter wechselten*	Größe des Ökostrommarkts (Endverbraucher)	Marktanteil der größten Stromerzeuger seit 1999	Anteil Erneuerbarer Energien am Stromverbrauch*	Vervielfachung erneuerbarer Stromerzeugung**
 DE 1998	 453	 10 %		 80% -33 %	 32 %	 x6
 ES 2003	 68	 7 %		 52% -27 %	 37 %	 x4
 DK 2003	 120	 3 %		 40% -7 %	 54 %	 x10
 NL 2004	 65	 16 %		k.A.	 13 %	 x10
 HU 2007	 4	 0 %		 39% +14 %	 7 %	 x14
 FR 2008	 21	 5 %		 94% -8 %	 19 %	 x1,3

*im Jahr 2016 **seit 1995

Quelle: EU-Kommission, ACER/CEER, BEUC, Eurostat
 Marktanteile Deutschland: BNetzA/BKartA, eig. Berechnungen
 Stand: 4/2018

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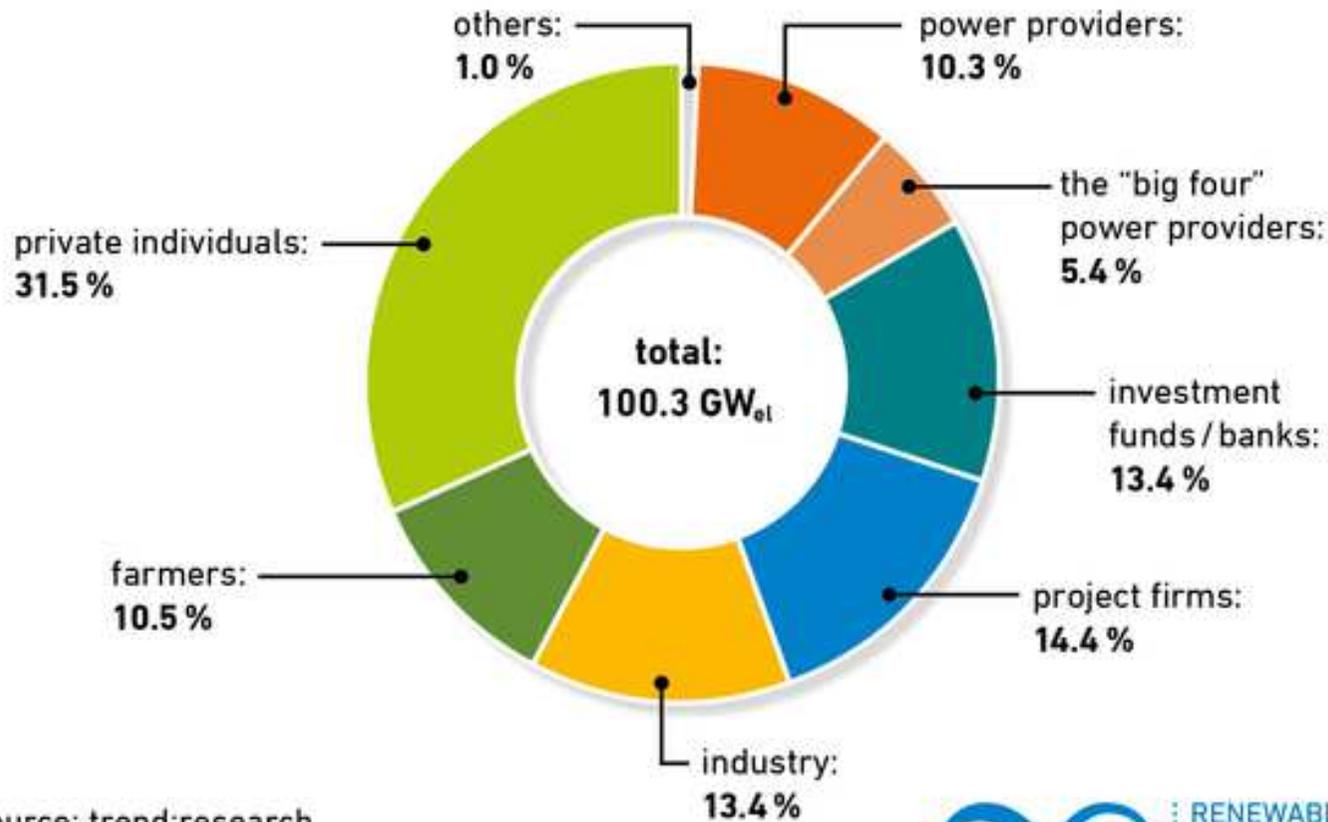


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 unendlich-viel-energie.de

Community and citizen-owned Renewable Energy is the key for the energy transition in Germany.

Renewable energy in the hands of the people

Ownership distribution of installed RE capacity for power production in Germany in 2016

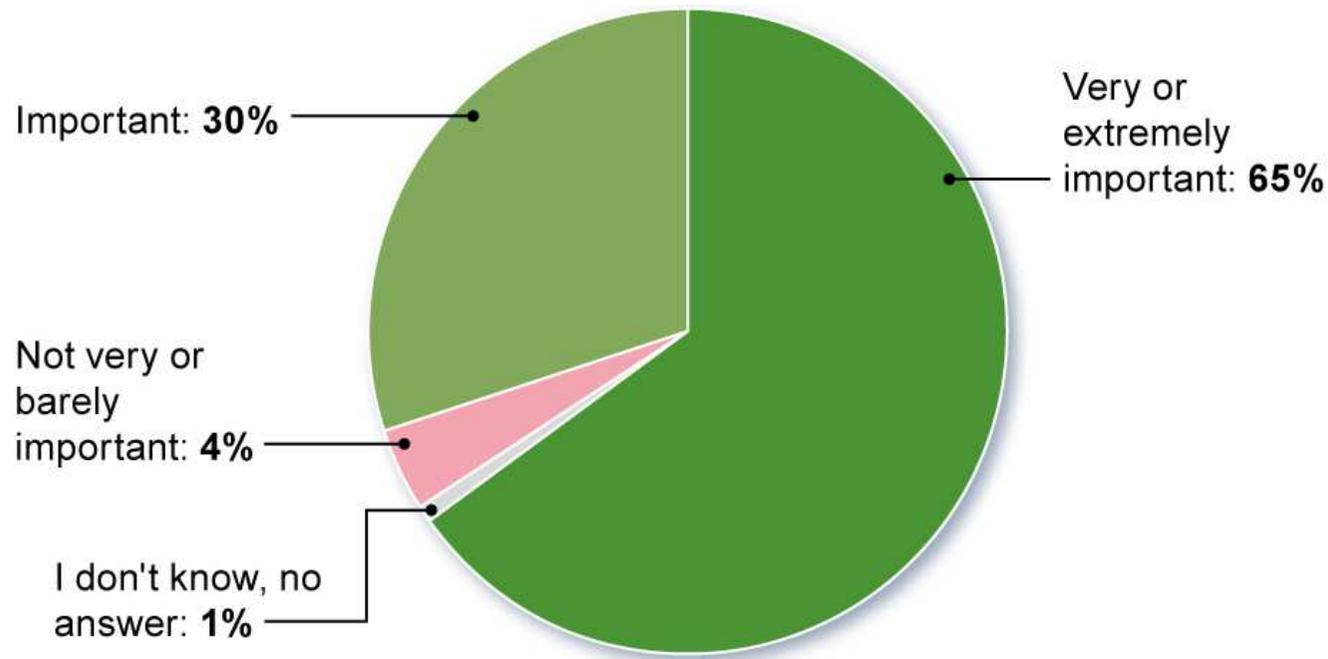


Source: trend:research
as of 12/2017

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Community and citizen-owned Renewable Energy significantly increases the acceptance: 95% of the German population support further expanding.

Increased use and expansion of renewable energy is...

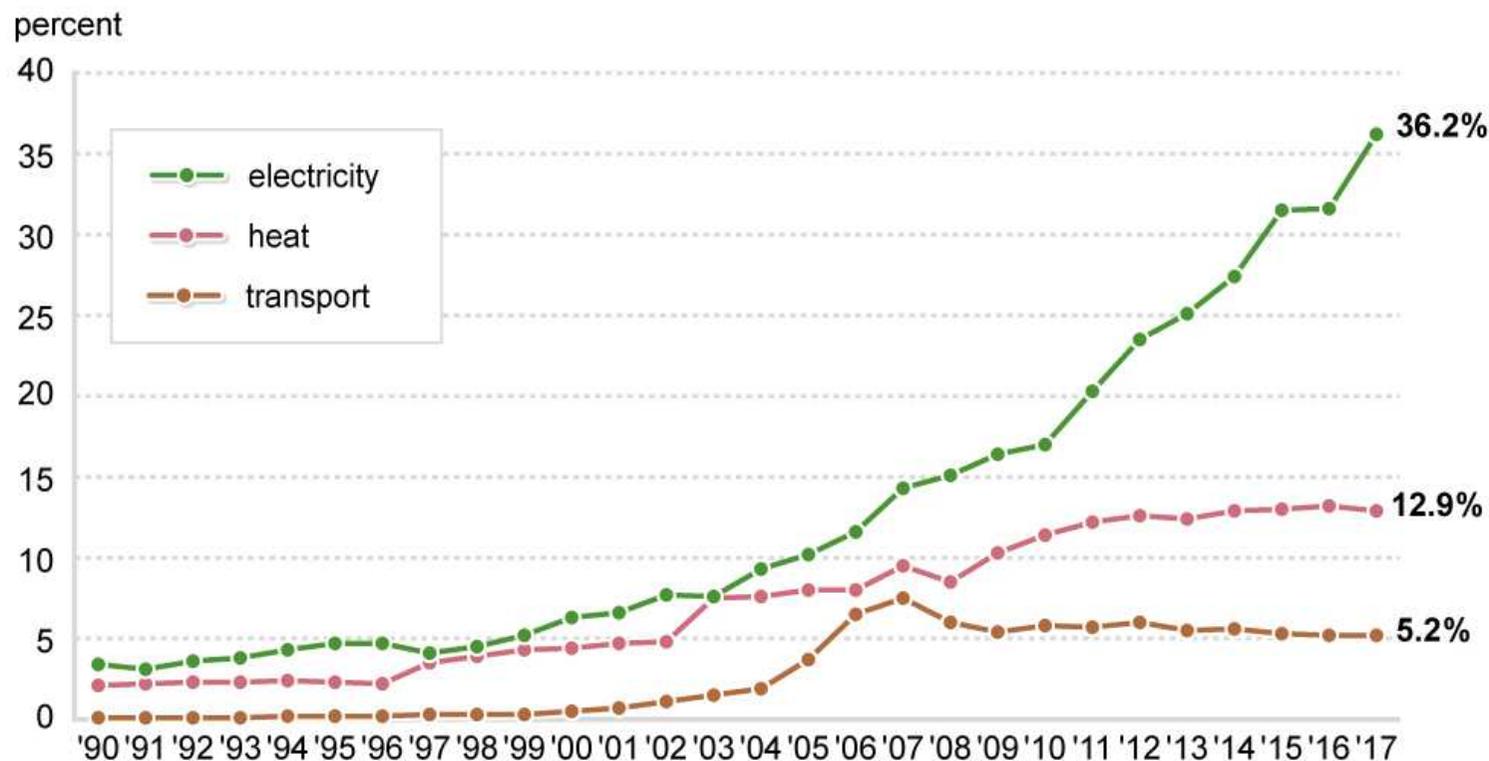


Source: Poll from Kantar Emnid commissioned by the Renewable Energies Agency, 1,016 polled
As of: 7/2017

Infographic made by:



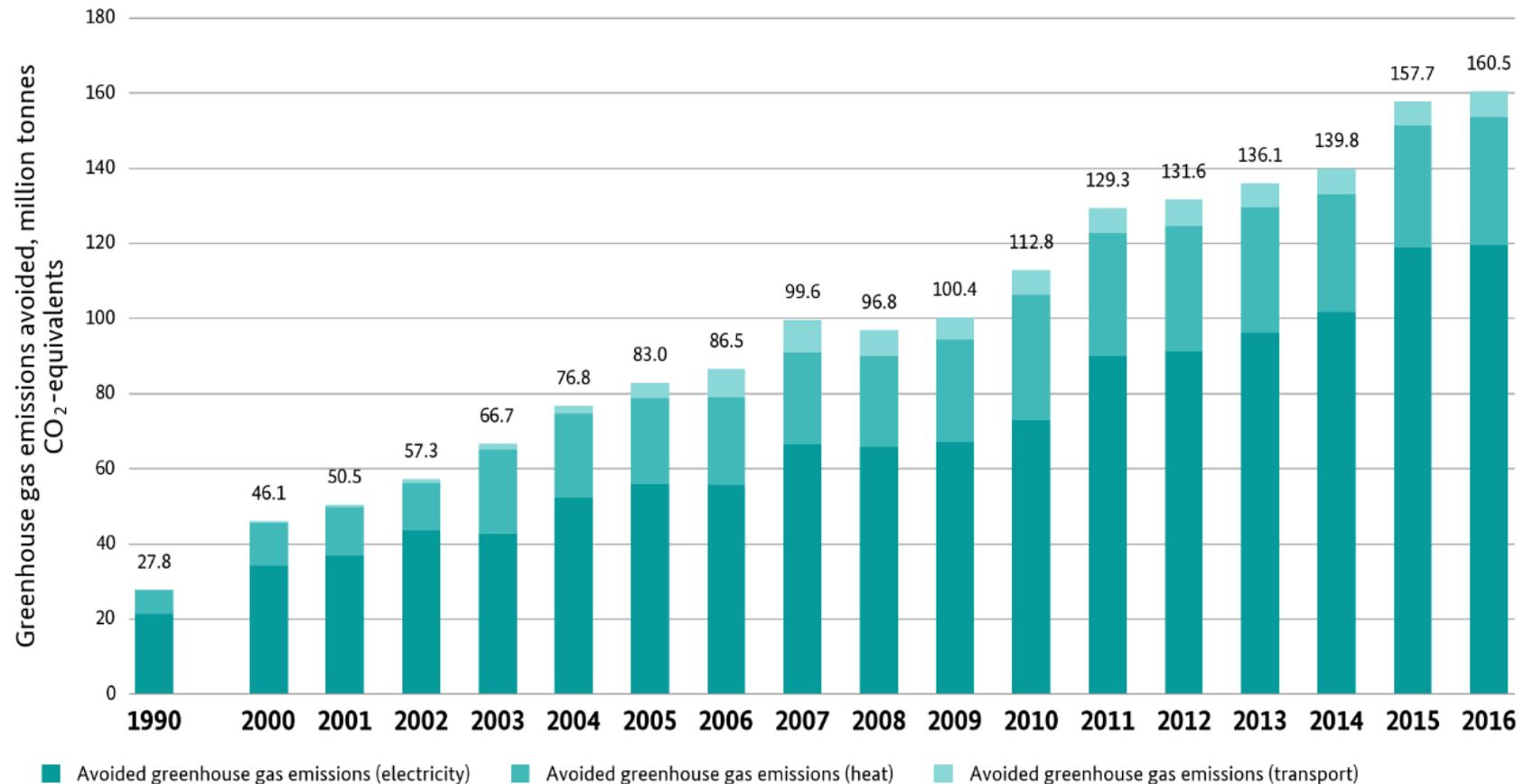
Share of Renewable Energy in Germany's final consumption 2017 – driven by communities and citizens.



Source: BMWi / AGEE-Stat
 as of: 3/2018



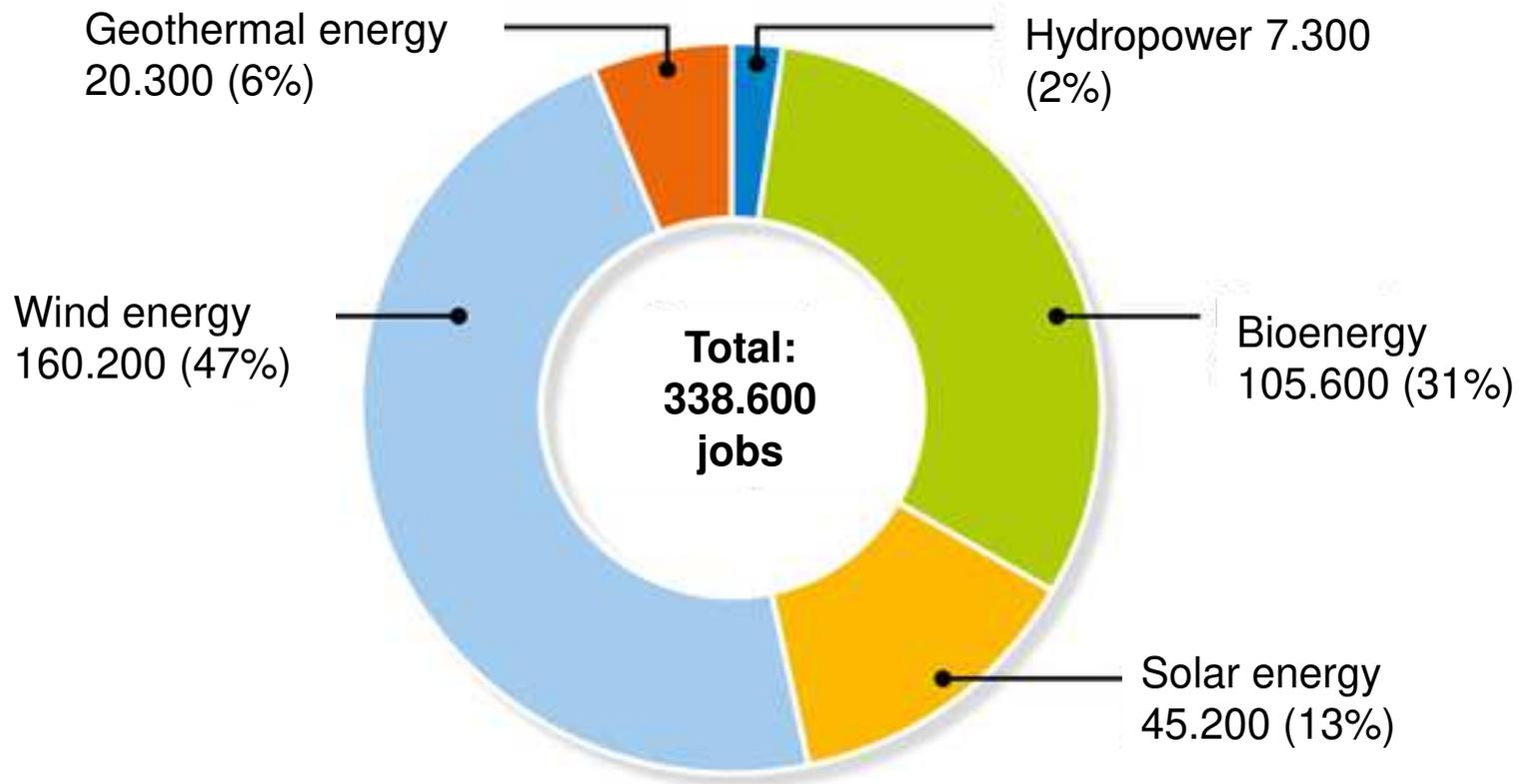
Avoided greenhouse gas emissions through the use of Renewable Energy in Germany (2017: 180 mio tonnes)



BMWi based on Working Group on Renewable Energy-Statistics (AGEE-Stat) using data of the Federal Environment Agency (UBA); as at December 2017; all figures provisional



338.600 jobs were created in the RE industry in 2016 – Employment by technology

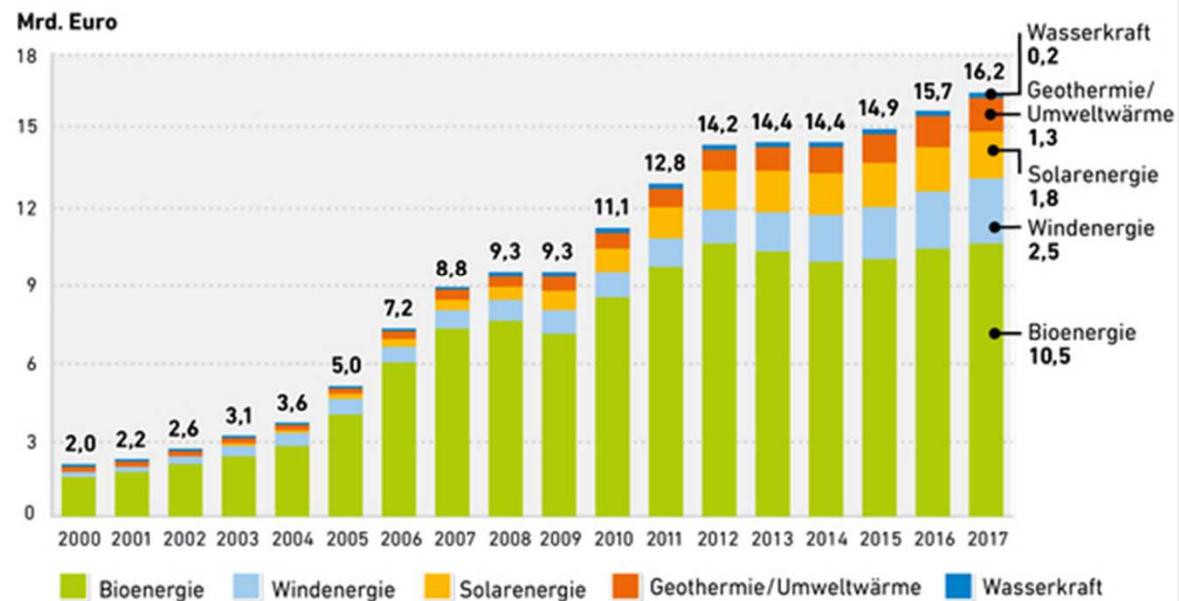


Source: GWS/DLR/DIW
February 2018

The added value of Renewable Energy was 16.2 billion euros in 2017. But it could be more...

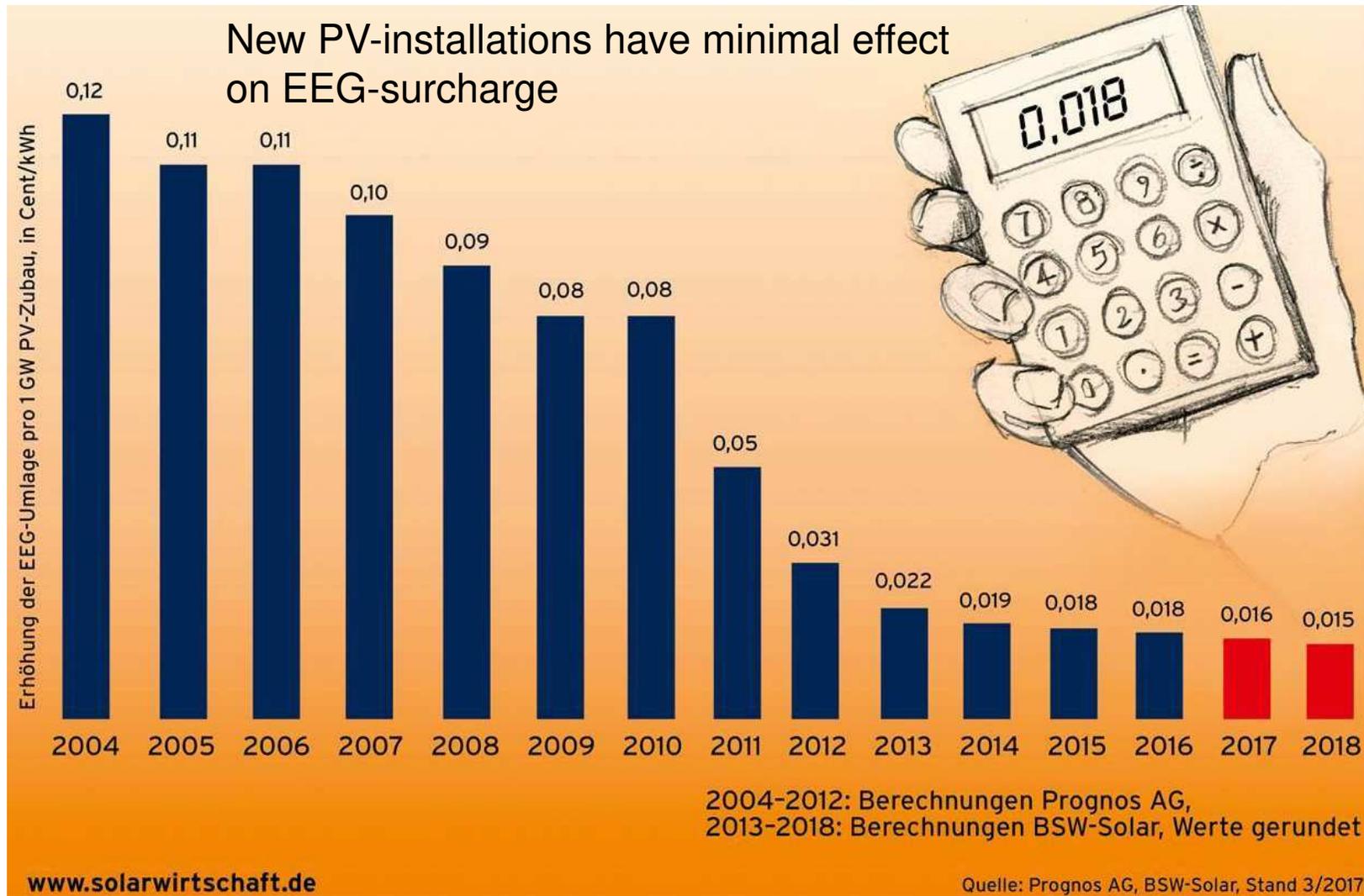
Wirtschaftliche Impulse aus dem Betrieb von Erneuerbare-Energien-Anlagen 2000–2017

Im Jahr 2017 wurden durch den Betrieb vorhandener Anlagen 16,2 Mrd. Euro umgesetzt. Dies ist eine Steigerung um über 3 Prozent gegenüber dem Vorjahr.



Quelle: BMWi/AGEE-Stat
Stand: 3/2018
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Decreasing costs: Solar power is getting cheaper and cheaper.



Community power and tenders work against each other



EEG 2017

In Germany, tenders were introduced by the EEG 2017, which contained exemptions for community power - but the system failed and promoted big players:

On-shore:

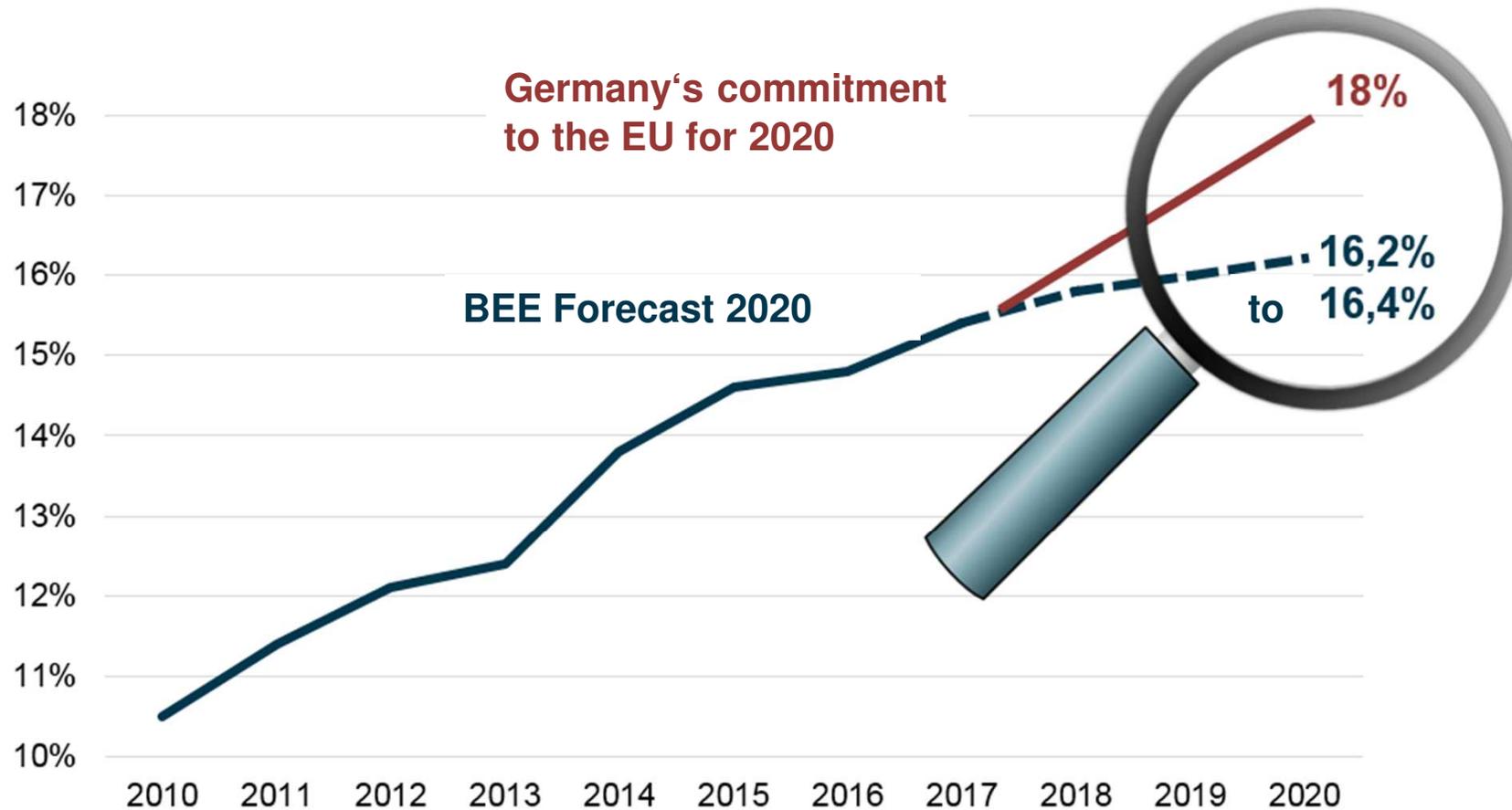
Share of private individuals **-9%**; Energy utilities **+11%**



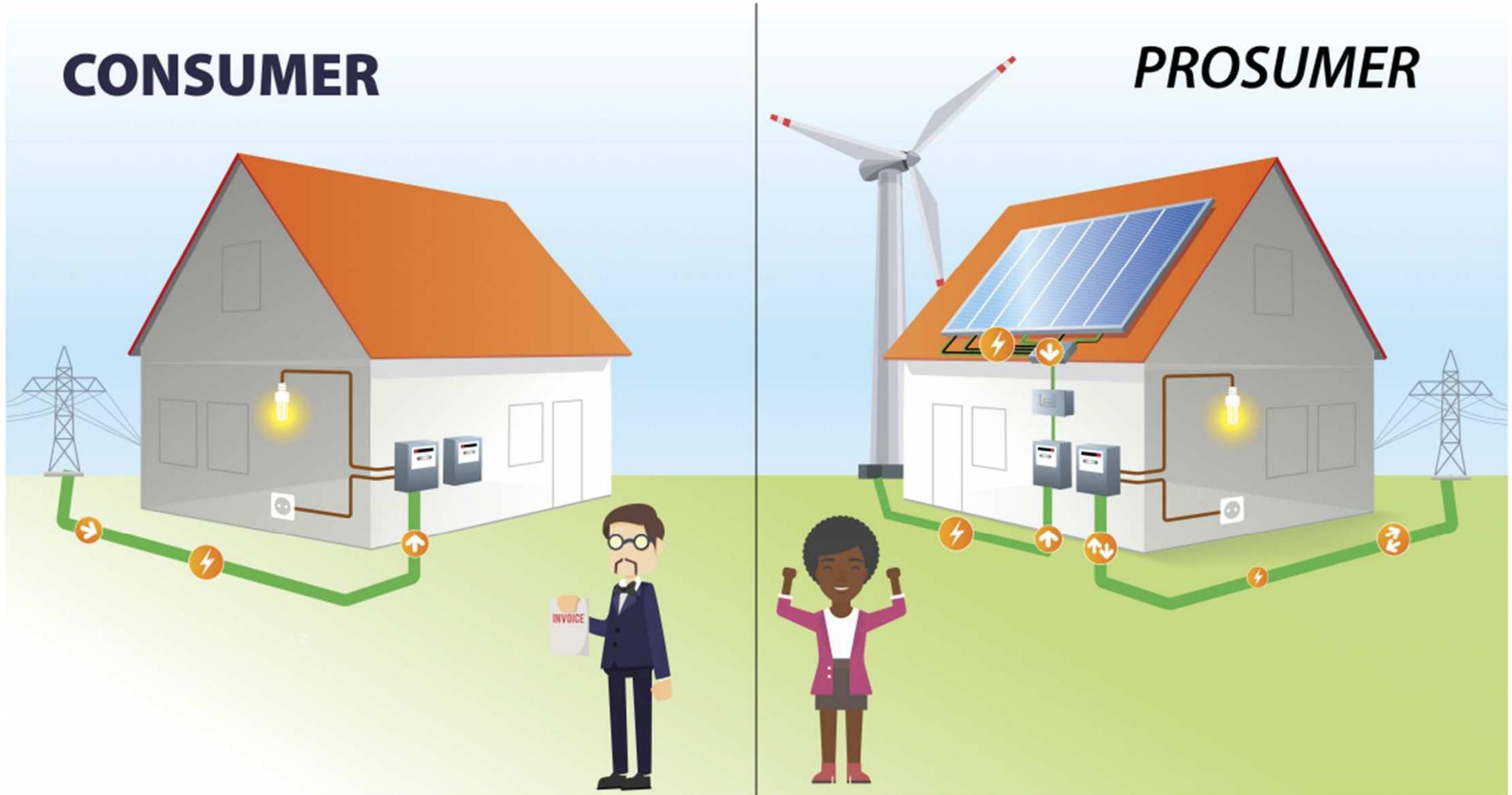
Even if these mistakes are now resolved, there are currently no fair rules for community power. In addition, green electricity production is still capped.



Energy transition accelerated. Germany is failing its 2020 binding Renewables' goal



Outlook: The prosumer society is the future.



What is needed now in Germany: Faster Renewable Energy expansion in all sectors and strengthening community power

TO DO'S

- **Special volumes** for wind and solar tenders for 2019 and 2020.
- Time and quantity framework to reach a share of **65% Renewable Energy** in the power sector until 2030 (as per Coalition Agreement) and a complete decarbonization before 2050 (as per Paris Agreement).
- Effective impulses for the **heating and transport sector**, for decentralized energy storage and sector coupling.
- A **coal and a fossil fuel phase-out** (Germany's „Coal Commission“ and „Mobility Commission“).
- **Fair market access** for community power:
 - Germany: self-consumption of Renewables free from charges, making better use of the potential of tenant electricity (Mieterstrom), de minimis rule for community power
 - EU: The Clean Energy Package takes a good approach, and must be implemented by the nation governments.

Thank you for your attention!

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