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# The Development of Energy Cooperatives in Germany

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DGRV – Deutscher Genossenschafts- und Raiffeisenverband e. V.



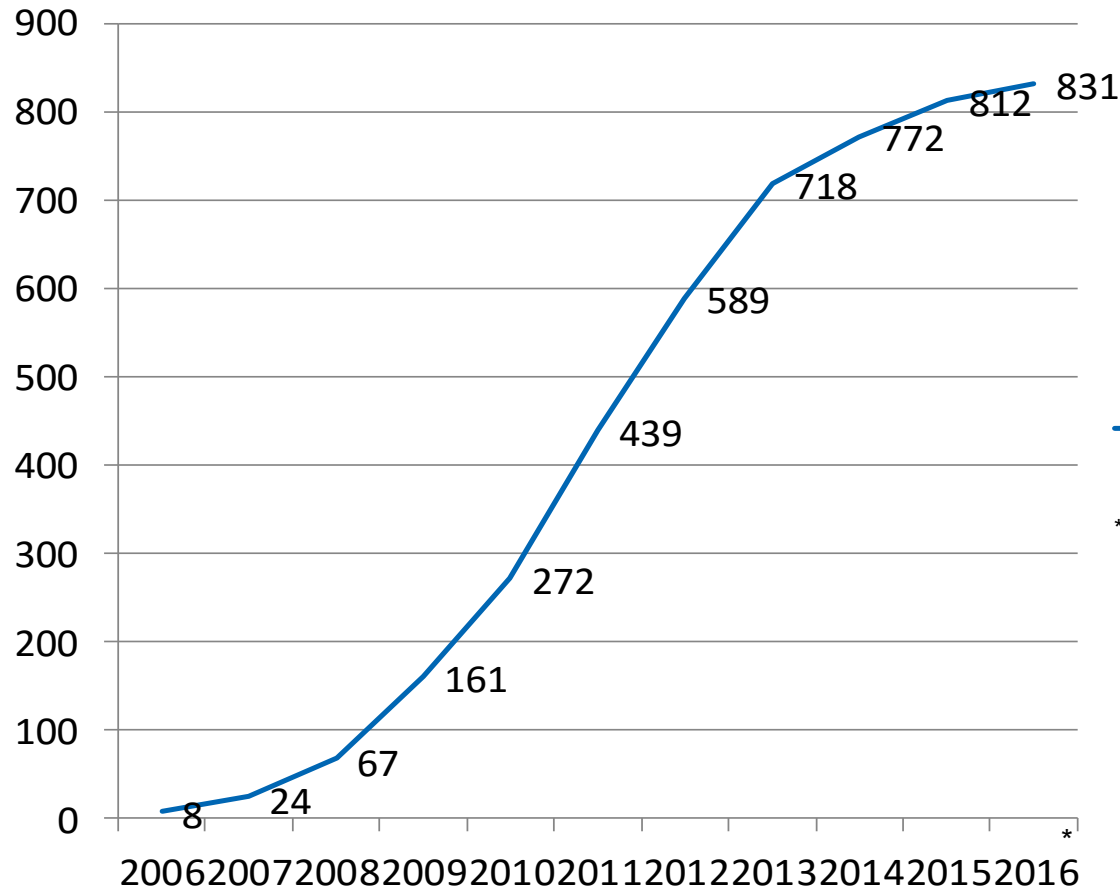
# DGRV – German Cooperative and Raiffeisen Confederation

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- National apex organisation
  - Top-level auditing federation
  - Largest economic organisation in Germany in terms of members:
    - 7,700 cooperatives
    - 22 million members
  - German cooperatives → 160 years of business-tradition
- } for the cooperative group in Germany



# Energy cooperatives since 2006 (cumulated)



— Foundations of energy cooperatives

\* Survey 31.12.2016

# Renewable Energy Sources Act (EEG)

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## ■ **Obligation to purchase and transmit**

Grid operators must give immediate priority to connecting installations for the generation of electricity from renewable energies and from mine gas to their grids and to purchasing and transmitting all the electricity available from these installations

## ■ **Guaranteed feed-in tariffs**

Grid operators must pay fixed tariffs for the feed-in of electricity from renewable energies (guaranteed payment period is generally 20 years for commissioned installations, payment is geared around the costs)

# Business models

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## photovoltaic



## wind energy



## district heating



- € 1.8 billion investments in renewable energies
- 1 GW installed capacity

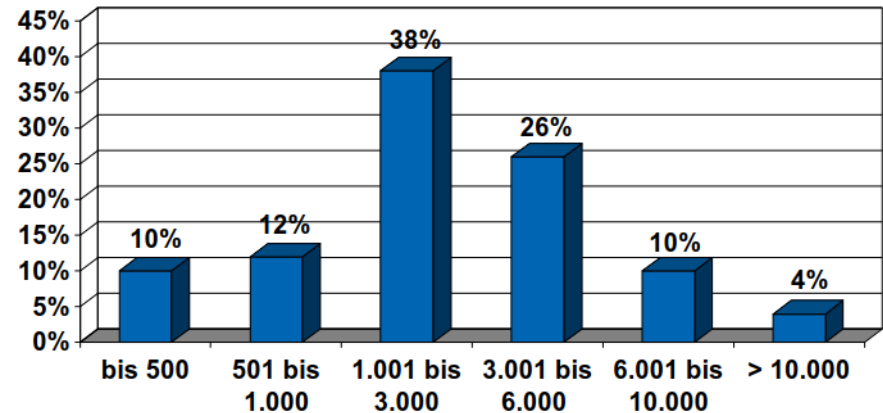
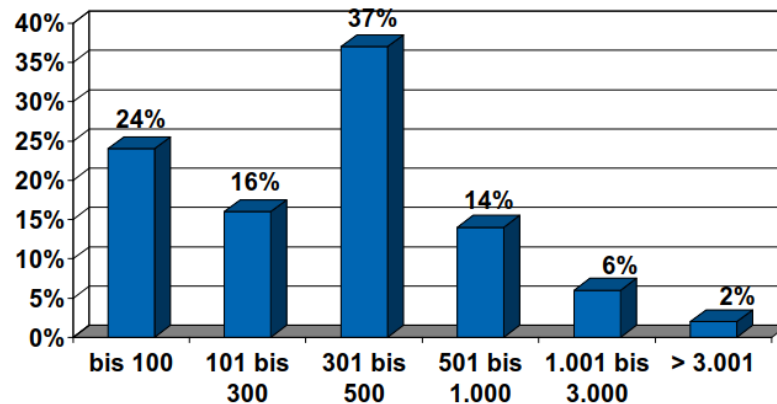
# Member shares

## Minimum share:

- average value: € 652
- minimum value: € 50

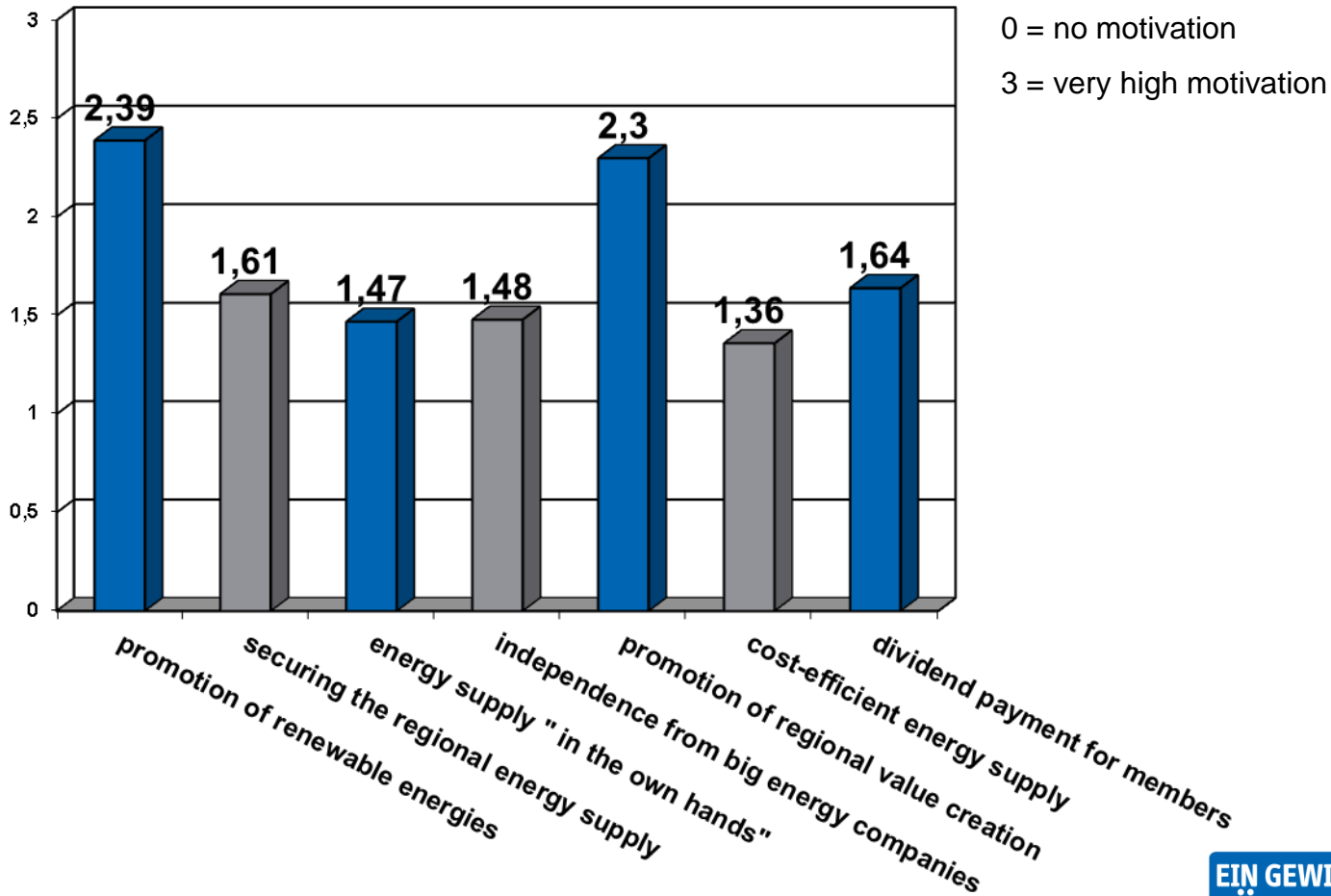
## Average participation:

- average value: € 3,652



# Reasons for founding energy cooperatives

What's your motivation?



# Energiegenossenschaft Odenwald

## → Boosting local economy

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- Founded in 2009
- 3,000 members
- € 11 m equity
- **€ 50 m investments**
- 83 solar plants (wind)
- 11 MWp installed capacity
- Energy provider
- „**House of Energy**“
- Kindergarden (150 children)





# Energiegenossenschaft Odenwald

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House of Energy



Former Brewery



Kindergarten



Parking Lots



# Energiegenossenschaft Odenwald

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€ 17.5 m → 2,400 orders → 250 local companies!





# Energiegenossenschaft Odenwald

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## Public Viewing EURO 2016



## 3rd Hessian Barbecue Contest



# German Renewable Energy Sources Act (EEG)

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- Amendments of the EEG
  - Auctions for wind energy (onshore)
  - ‚Competitive rule‘ for citizen energy
  - Exemption for solar energy (750 kw)
  - FIT adjustment for solar energy
  - Delivery inside buildings
- Business Opportunities for Community Energy
  - District heating?
  - Energy efficiency?
  - Mobility?
  - Regional development?

# Thank you for your kind attention!

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