



Bundesministerium  
für Wirtschaft  
und Energie



# Supporting community-based renewable energy communities

A Thai-German cooperation project

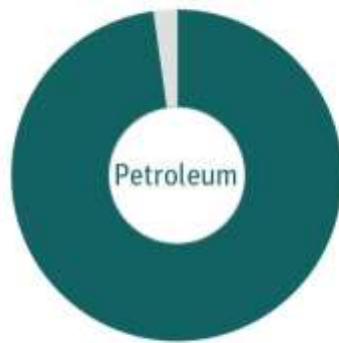
Facilitator

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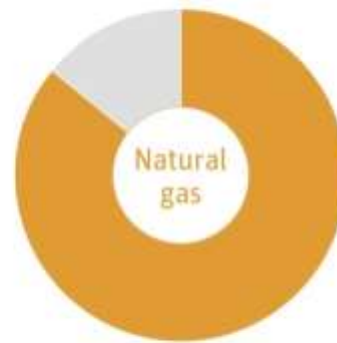
# Germany is highly dependent on fossil fuel imports...



81%



98%



86.0%



100.0%

Source: [energytransition.de](http://energytransition.de)

# ...and has ambitious GHG reduction targets



By 2020:  
-40%

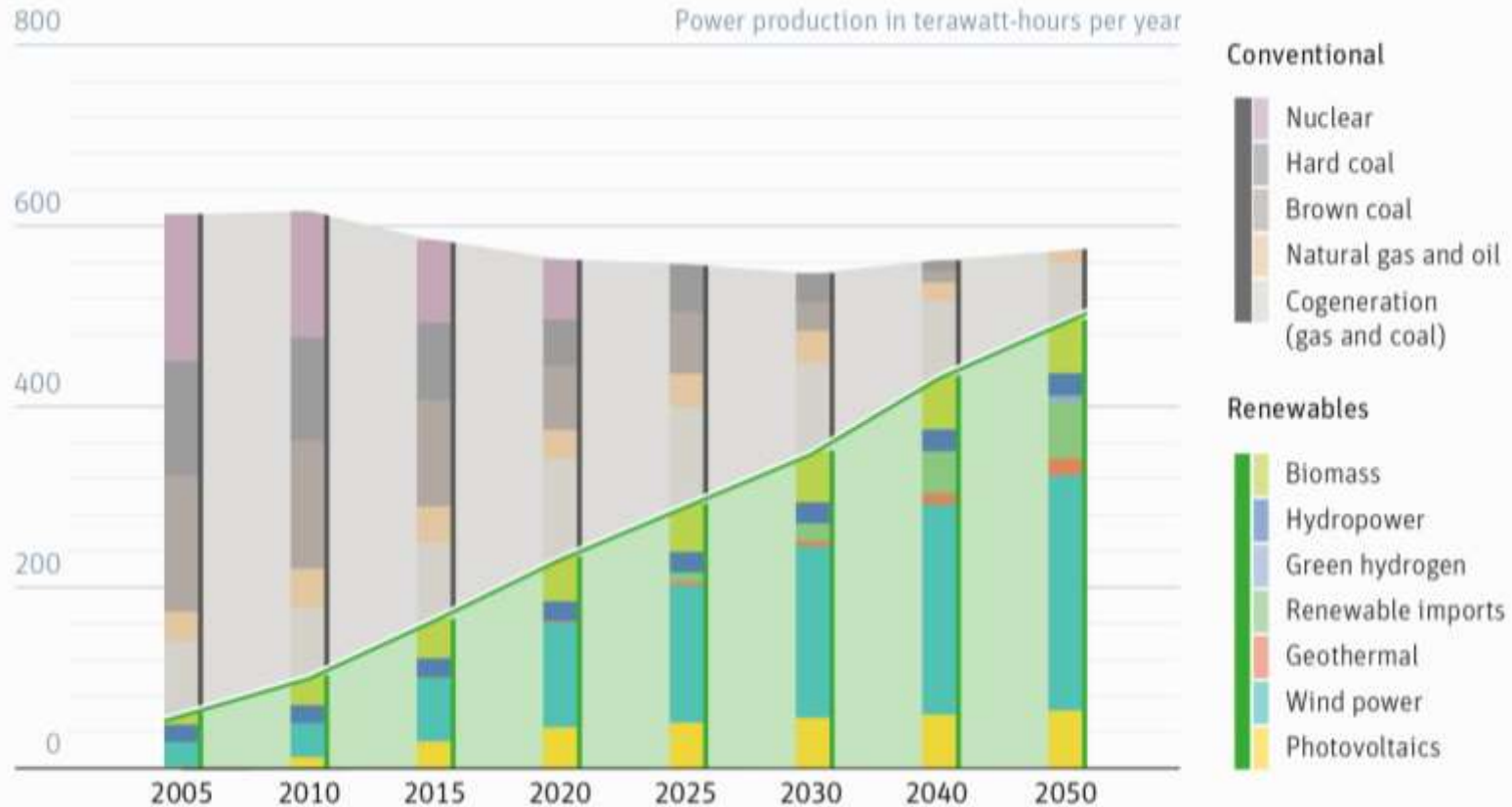
By 2050:  
-80%

Compared to  
level of 1990

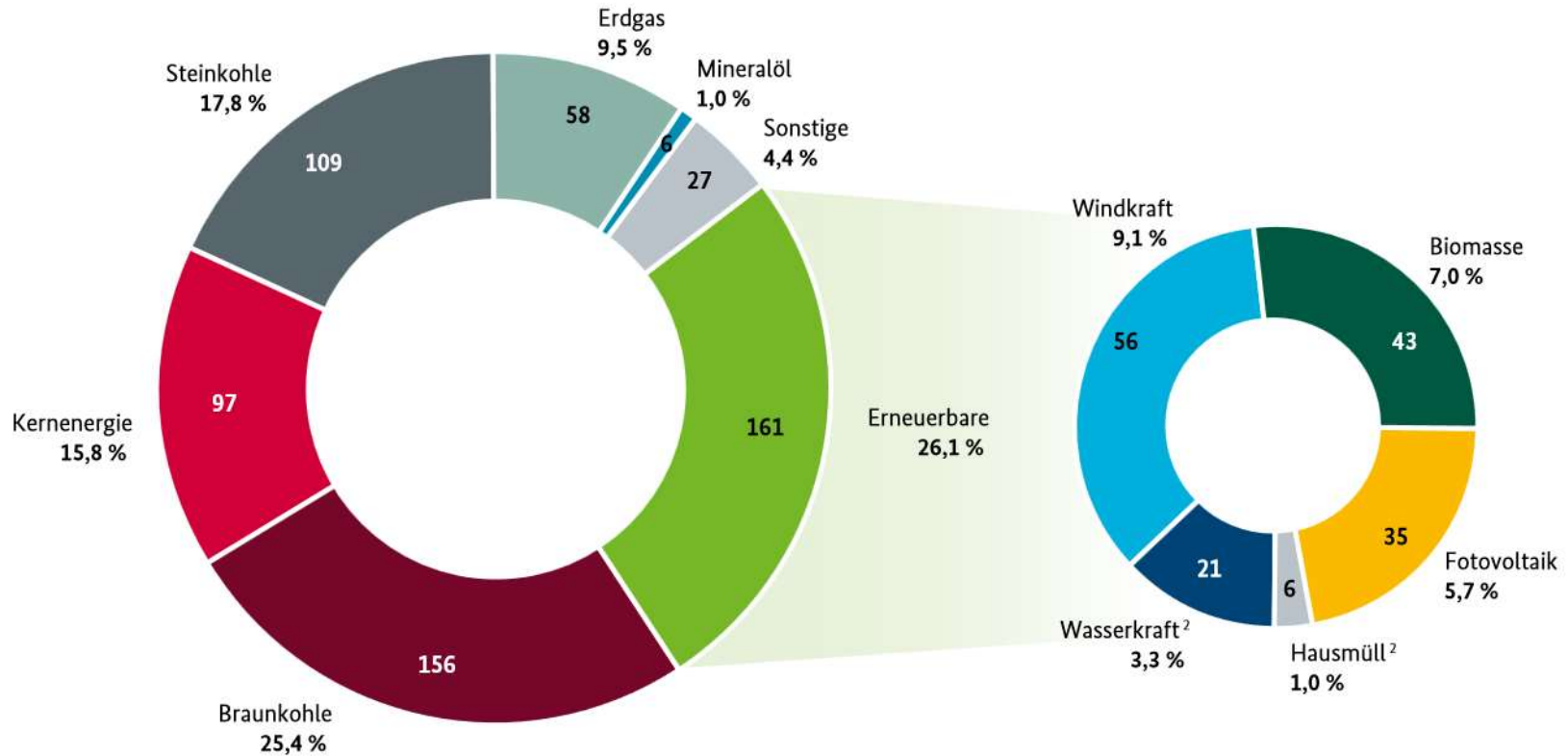
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# Germany's Plan: Switching from fossil to renewable energy



# Gross electricity production in Germany 2014<sup>1</sup>: 614 TWh



<sup>1</sup> preliminary  
<sup>2</sup> renewable share



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Source: BMWi

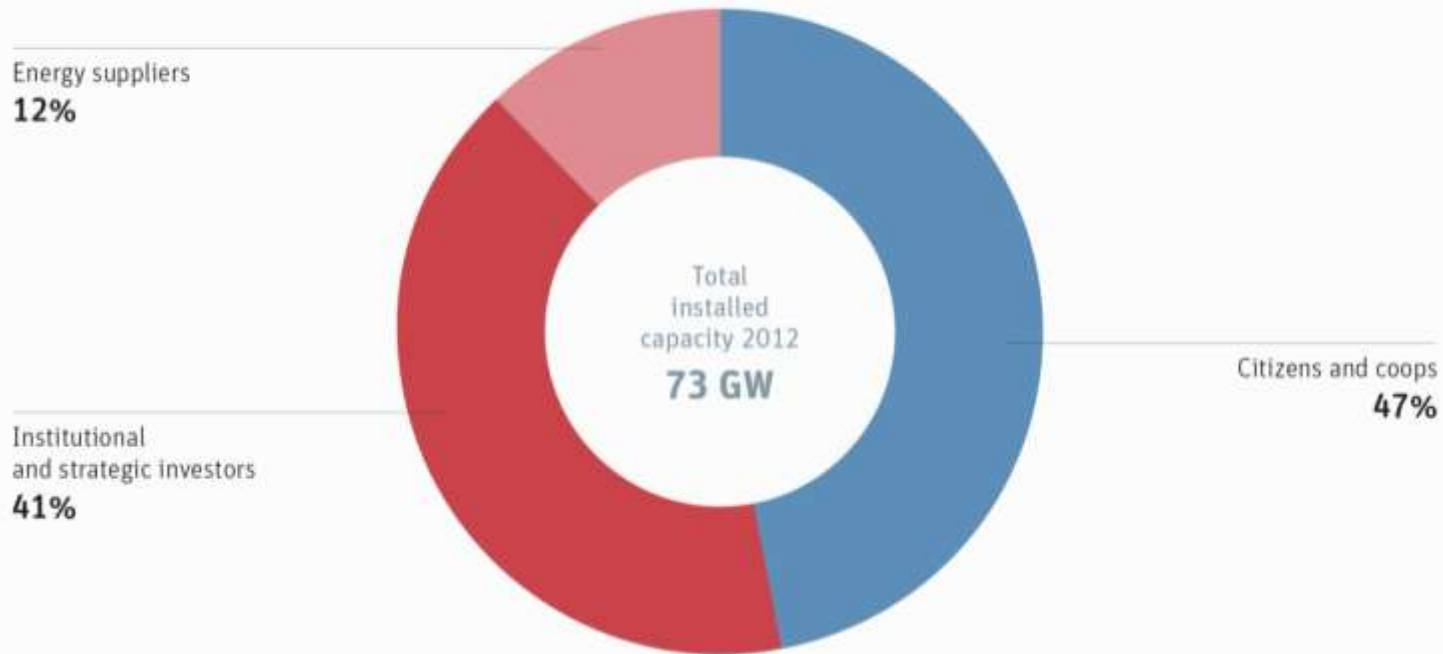
# How can communities/ municipalities get involved

- **Owning land and buildings**, communities can use RE
- Through **ownership in local utilities** communities can e.g. own distribution grids and determine the local energy mix
- Communities, instead of investing in RE, can e.g. via contracting, can **procure renewable energy**
- As **permitting authority** communities are the most relevant player in when it comes to enabling RE projects in a region
- As **advisor and guide** communities can lead the way for citizens, additionally can provide support schemes for regional renewables
- Can play an **active role in communication and PR for RE**, e.g. „Renewable Energy Week“, „Solar Days“, „RE Cup“, „100% RE community“

# 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)



# “What’s impossible for the individual can be achieved by many”

- People are concerned and engaged:
  - How can we combat climate change on a local level?
  - What can we do locally to ensure our own energy self sufficiency in future?
- An energy cooperative pools the interests of private individuals, to engage in projects and endeavors that are too big for a single person/actor
- Cooperatives are a vehicle to empower local communities to decide on the role environmentally friendly and sustainable solutions can play in regional development.
- Shares in some cooperatives can be bought for less than US\$100.



# Thailand and Germany have many similarities....

- High energy consumption
- High import dependency of fossil fuels
- Great potential for renewable energy deployment



# ...especially: strong stakeholder involvement!



# GIZ and MoEN cooperate to supporting RE communitites

- Germany and Thailand are cooperating to set up a Thai-German Renewable Energy Community
- Goal:
  - Community involvement in ownership/operation
  - combination of different RE technologies
  - Know-how / technology transfer to Thai companies
  - Market access for German SMEs



## Links

- [Solar PV Policy Update](#)
- [Thailand Renewable Energy Policy Update](#)
- [GIZ Activities Thailand](#)



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# Thank you for your attention!

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