



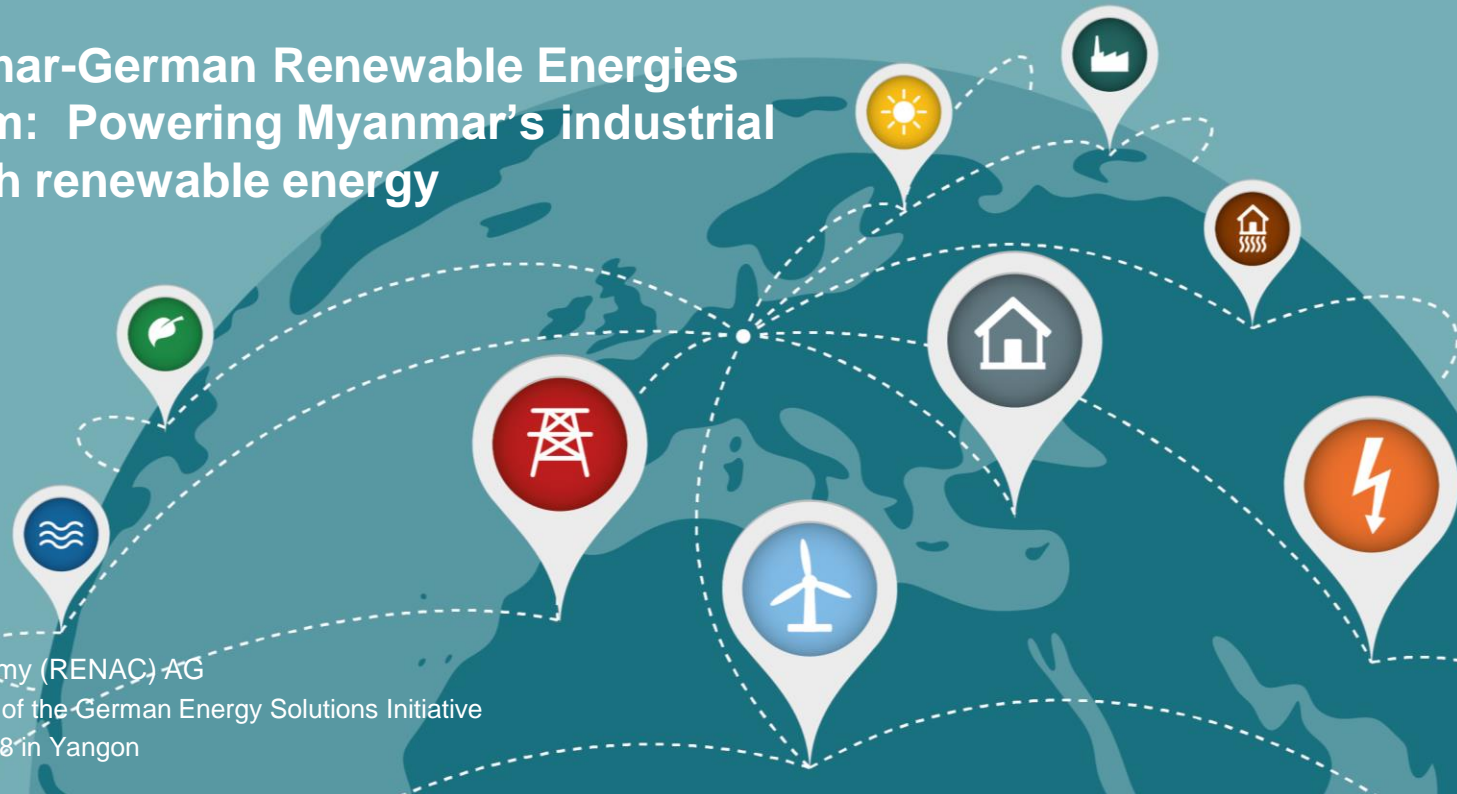
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# energy solutions – made in Germany

## 2nd Myanmar-German Renewable Energies Symposium: Powering Myanmar's industrial growth with renewable energy



Laura Scharlach  
Renewables Academy (RENAC) AG  
Consultant on behalf of the German Energy Solutions Initiative  
September 13th, 2018 in Yangon



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# Content

1. The German Energy Solutions Initiative
2. The Energy Transition in Germany

# Our Aims

**Promotion** of renewable energy and energy efficient technologies

**Showcase** sustainable energy solutions

**Implementation** of projects

**Know-how transfer**

Contribution to international **climate protection**



# How can you participate and meet German enterprises?



✓ Foreign trade fairs



✓ Networking opportunities



✓ Know-how transfer  
✓ Information  
✓ Capacity building



✓ Trade missions



✓ Fact finding missions



✓ Project development & flagship projects

# Know-how transfer

## Fact finding missions

- ✓ Missions to Germany for foreign companies & decision-makers
- ✓ Visit of best practices and applied solutions

## Project development & flagship projects

- ✓ Facilitating business partnerships and know-how transfer

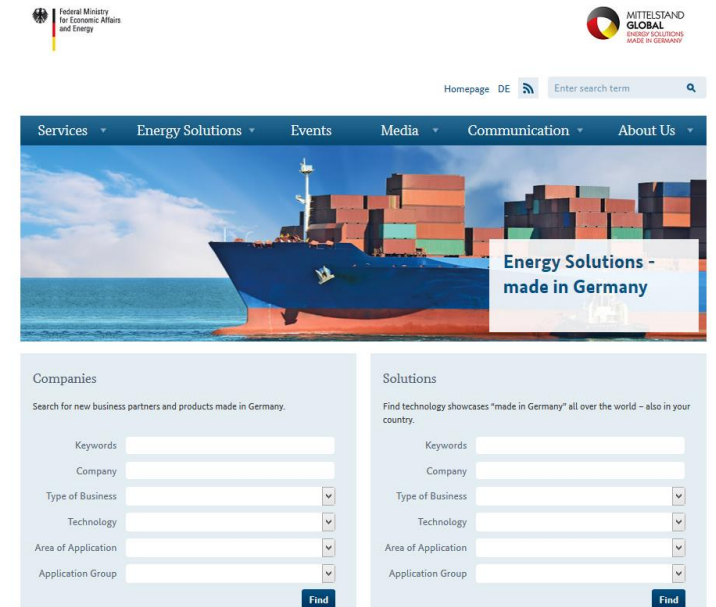
## Capacity building



# Information about Events and German companies

## On our website you can find:

- ✓ Information about technologies made in Germany on a Database
- ✓ Current news and upcoming events
- ✓ [www.german-energy-solutions.de](http://www.german-energy-solutions.de)
- ✓ You may also always contact us!



# Upcomming Events for Myanmar in 2019

- Fact-Finding Mission to Germany on “Solar- and Bio Energy” from May 13-17, 2019 in Berlin and Munich during the Intersolar Europe



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# The German Energiewende



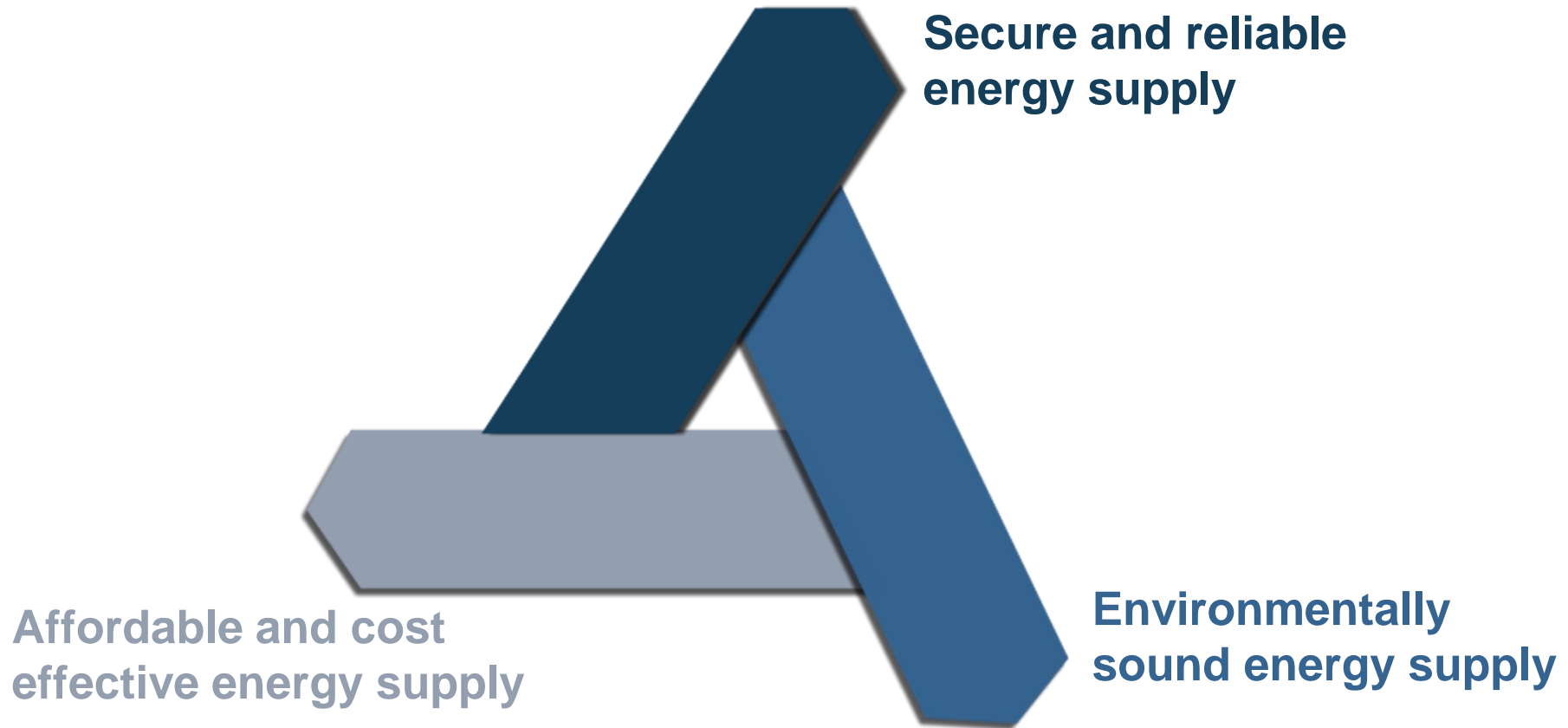
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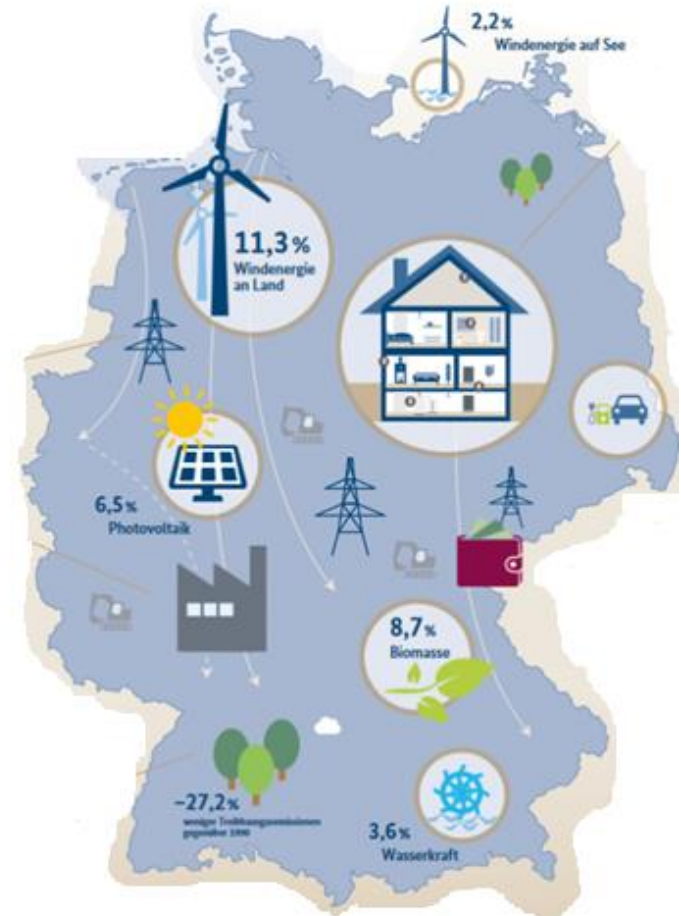
# Policy and guiding principles of the Energiewende



Affordability, reliability and environmental protection are interlinked and the ultimate objectives of the Energiewende and German energy policy.

# Reasons for the Energy Transition in Germany

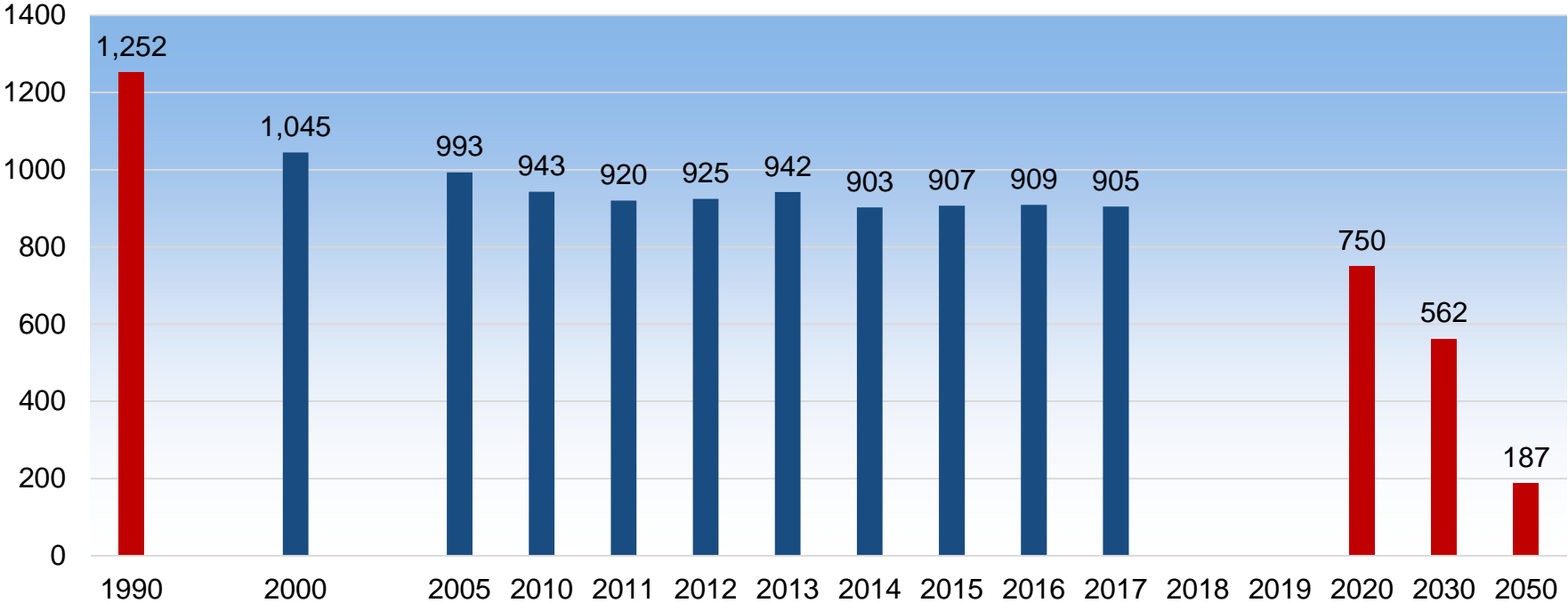
- ✓ Energy policy can be both sustainable and **economically successful** (combined with measures for energy efficiency)
- ✓ Development of **new technologies as new sources of growth** and employment
- ✓ **Reduce dependency** on energy imports
- ✓ **Phase-out nuclear** power generation
- ✓ Reduce carbon emissions and reach **climate protection** targets



# Targets of the Energiewende – Climate:

## reduce GHG emission by- 40% by 2020 against 1990

Annual GHG emissions in MT CO2 eq.

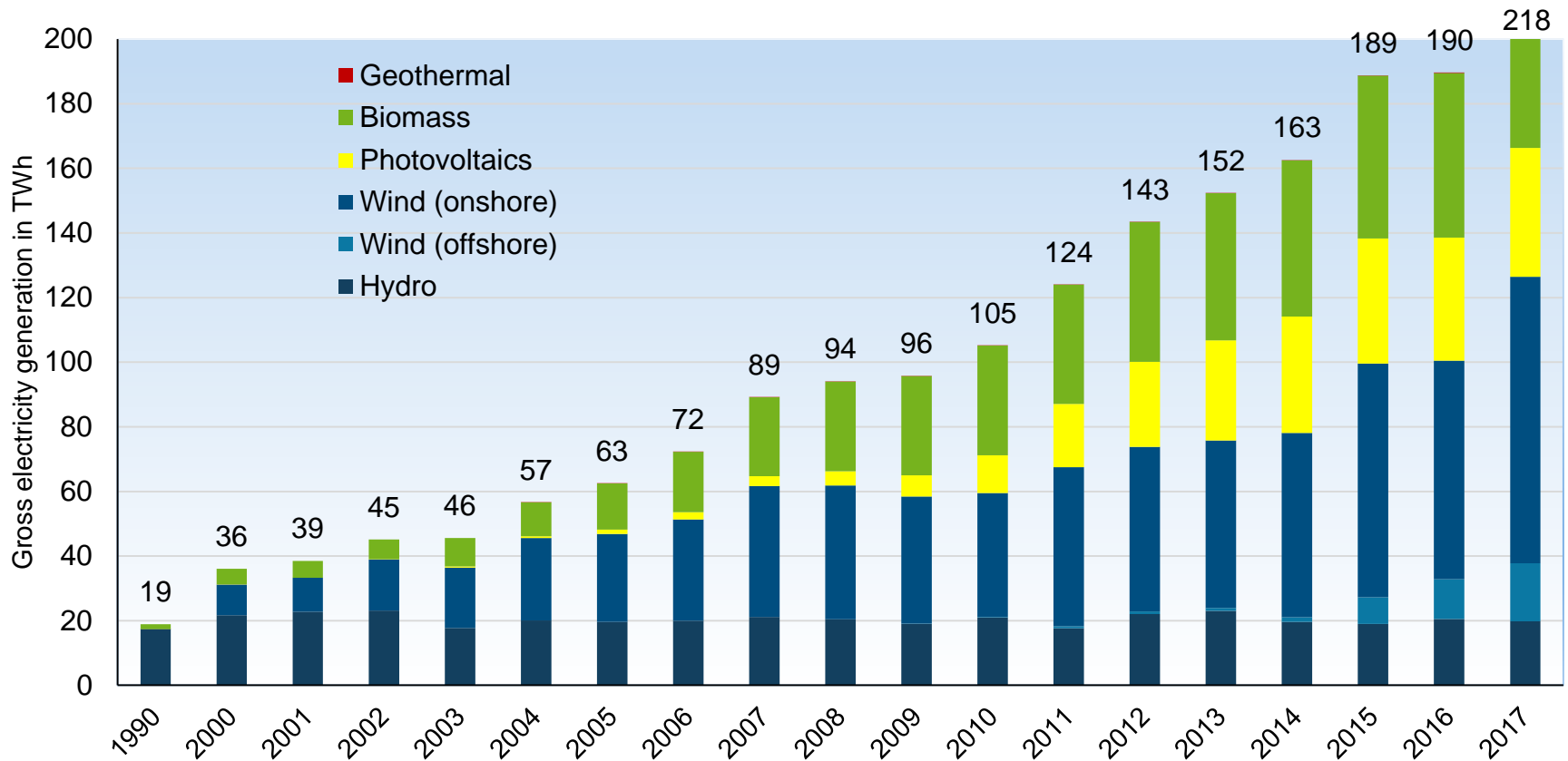


Germany has made progress but with “only” -27.7% GHG emission reduction against 1990, it will miss its 2020 target of -40%. The government has confirmed its 2030 and 2050 targets.

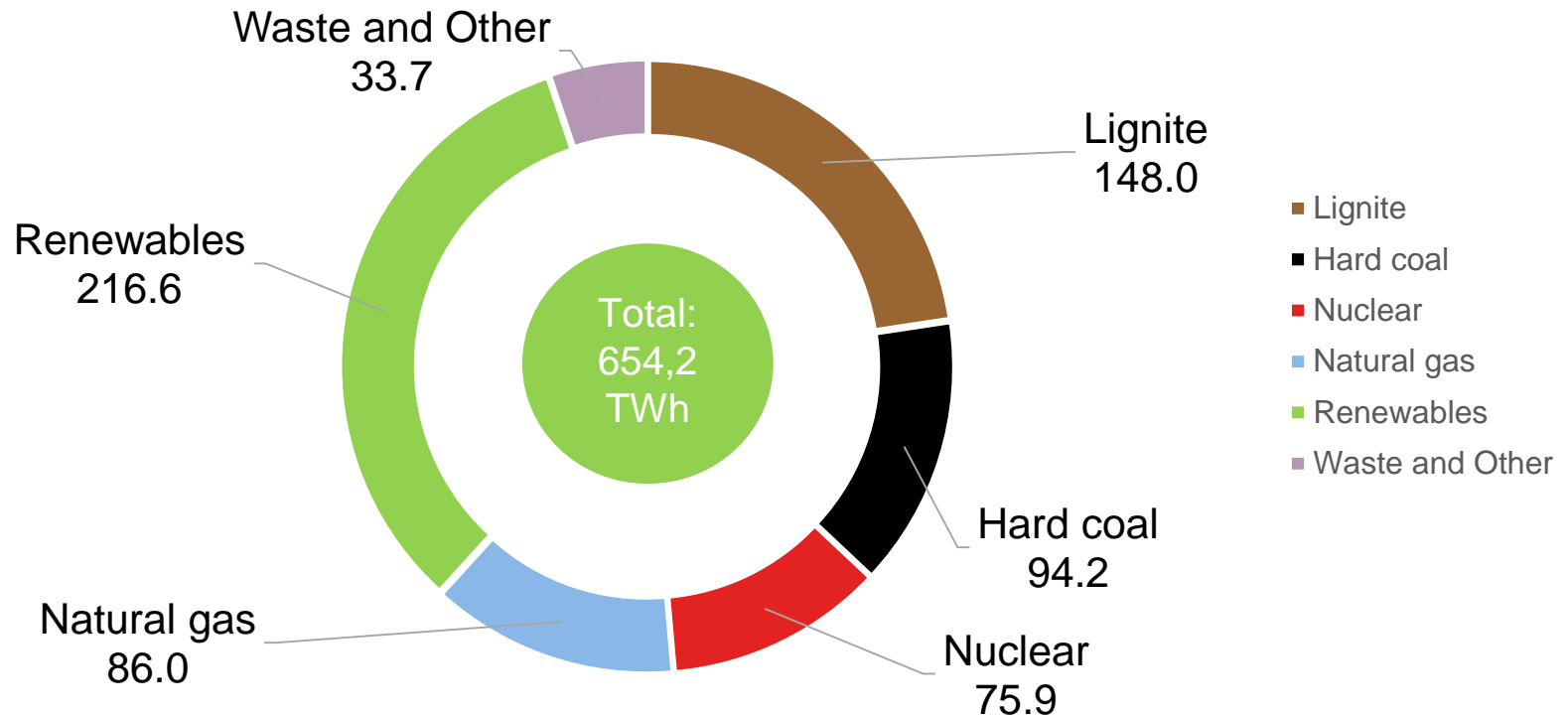


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# Renewable energy development in Germany



# Gross electricity production in Germany 2017 (TWh)

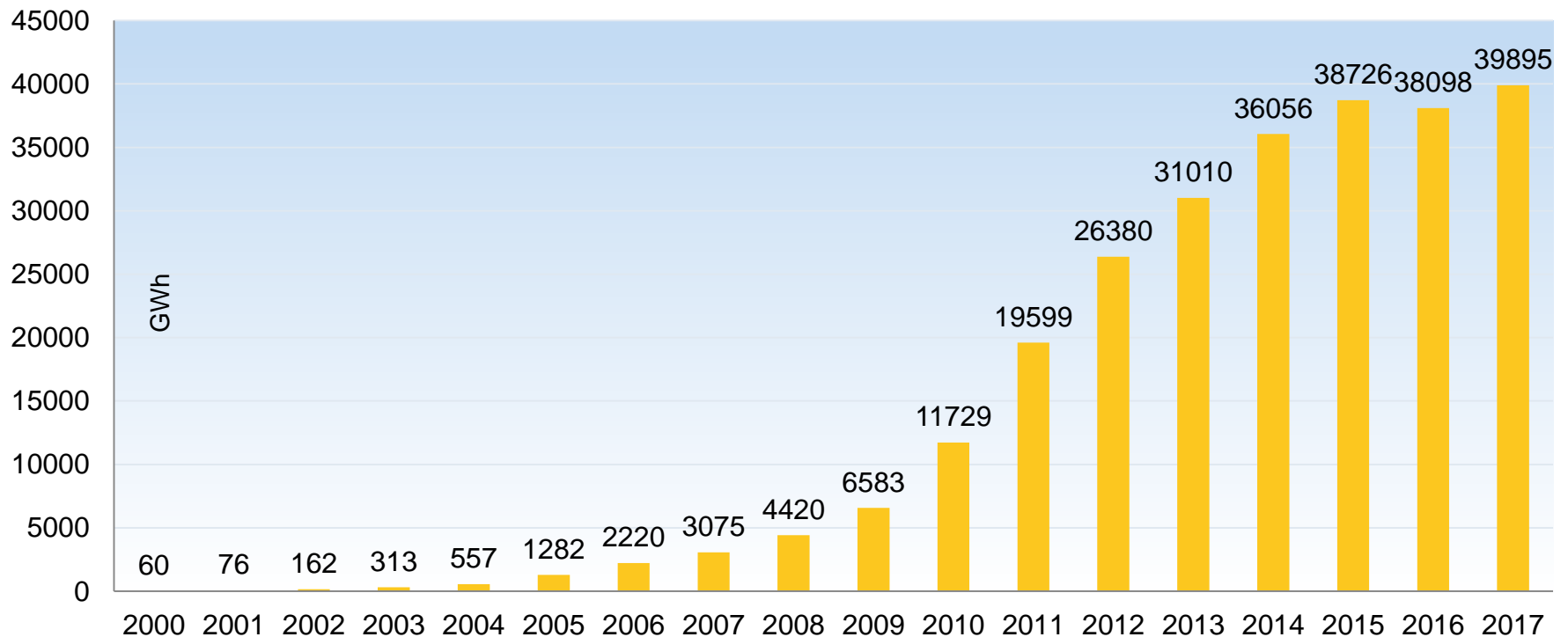


Source: AGEB 2018

Renewables have become the biggest source of power generation.

# Annual PV electricity generation in Germany

## PV electricity generation in Germany (in GWh)



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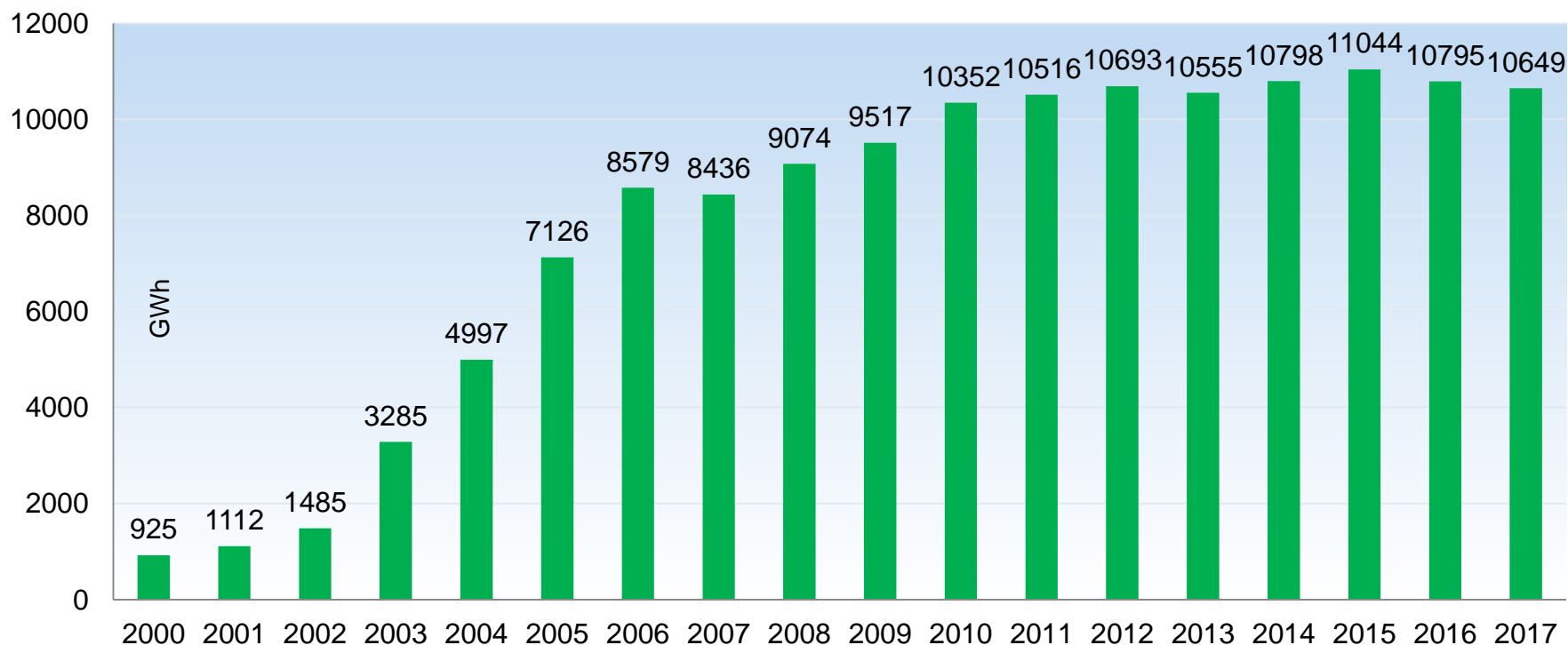
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# Annual Biomass electricity generation in Germany

## PV electricity generation in Germany (in GWh)



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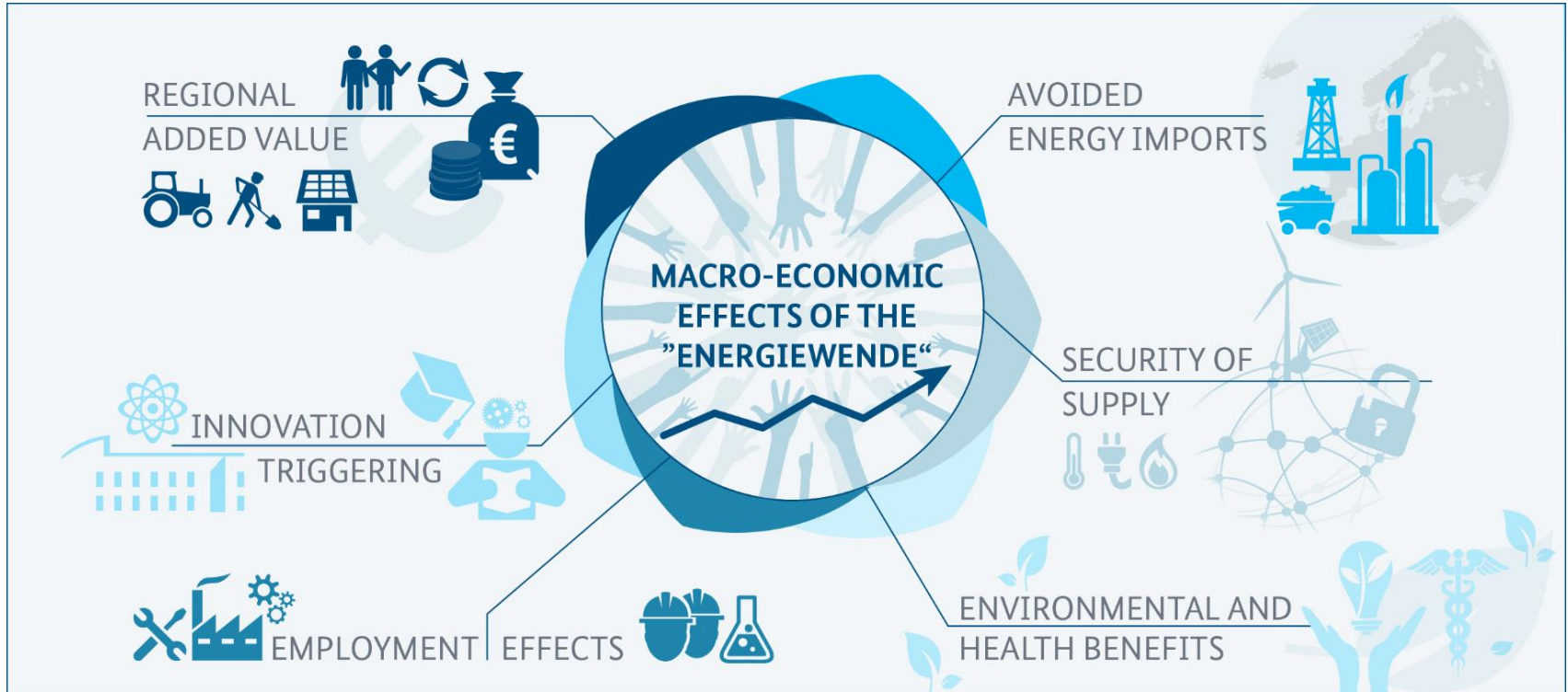


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# Benefits of the Energiewende



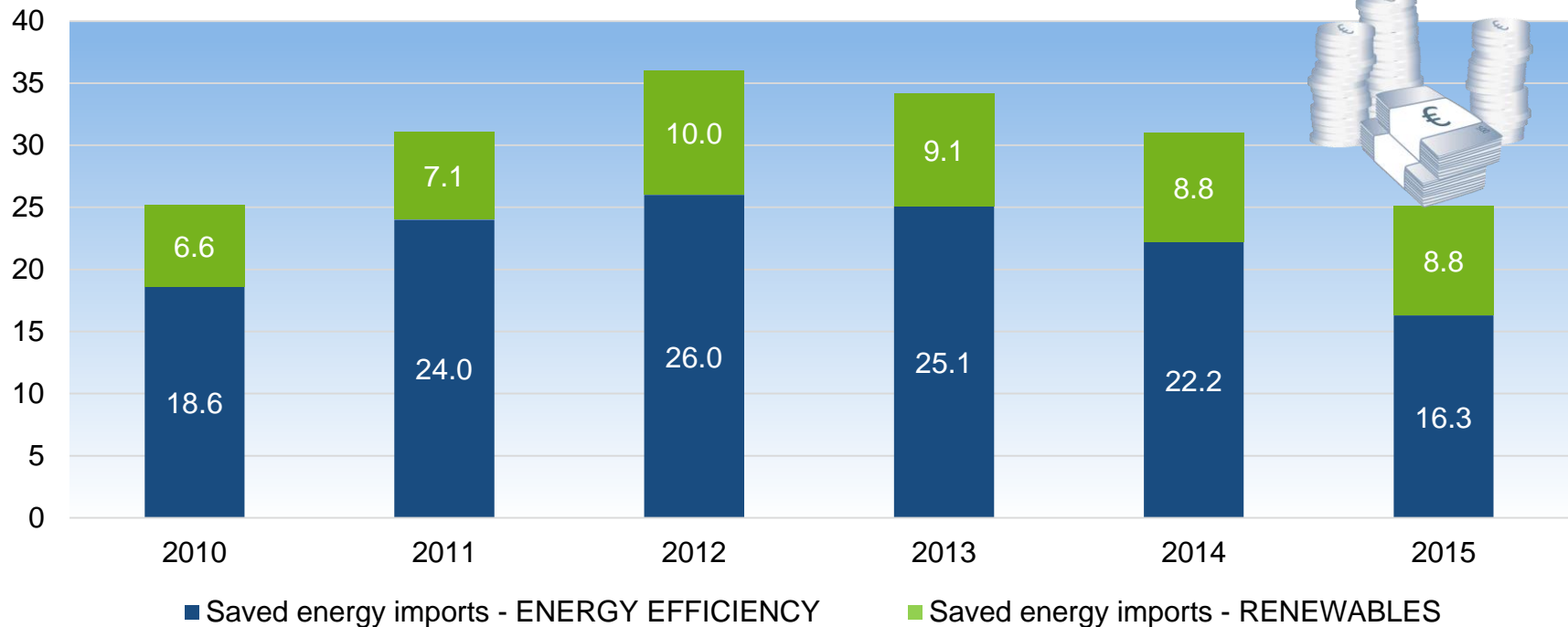
Source: BMWi 2014, ERGO Kommunikation

The energy transition has numerous positive effects on various levels.



# Benefits - reduce costs of energy imports

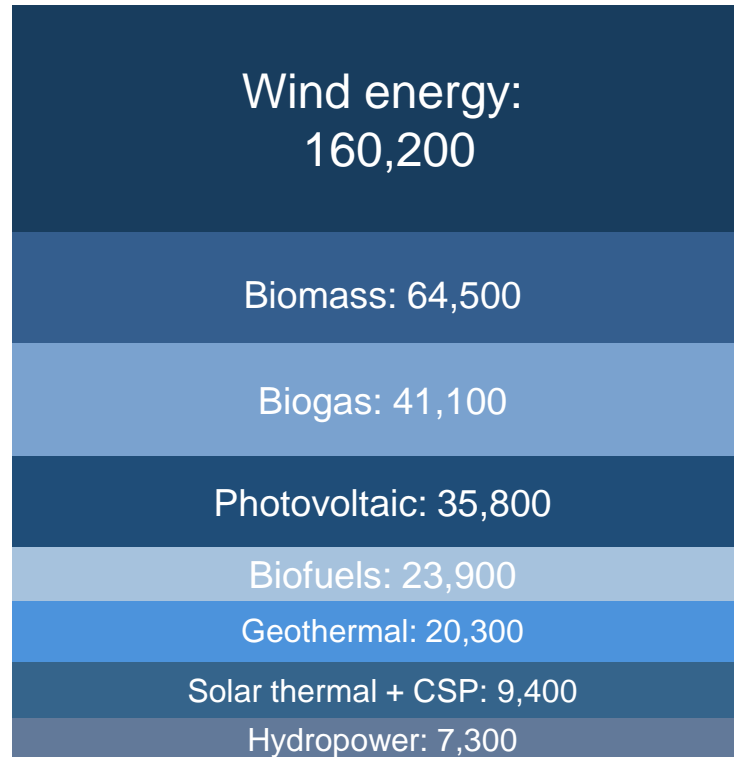
## Saved energy imports in billion €



*Renewable sources of energy saved € 8,8 billion in 2015.*

# Jobs in the German renewable energy sector 2016

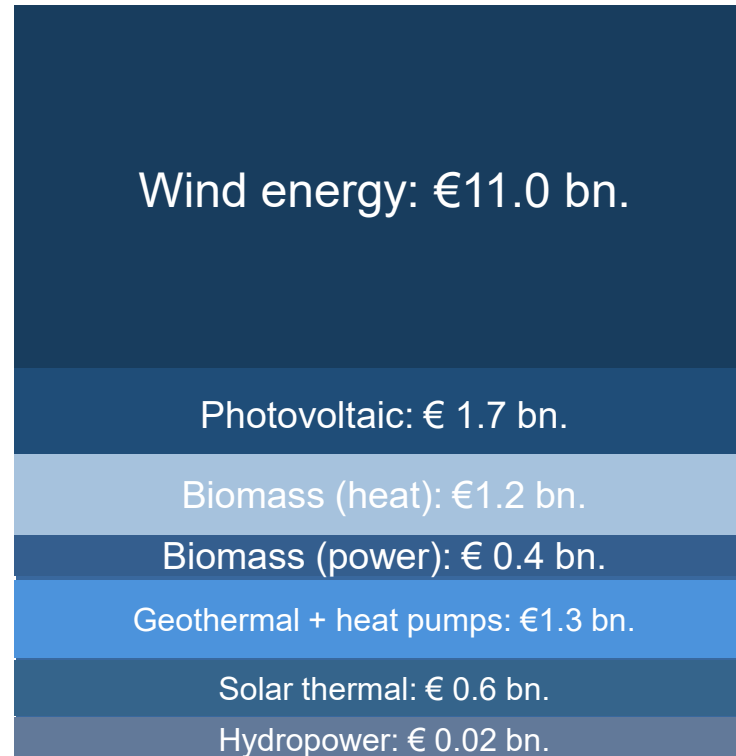
**Total 2016:  
338,600 jobs**



The renewable energy sector employed 338,000 people in 2016, roughly the same level as in 2015.

# Investments in renewable energy installations in 2017

**Total 2017:  
€16.2 billion**



Investments in renewable energy installations was €16.2 bn. in 2017. Economic stimuli from operation and maintenance accounted for another €16 billion.

# Contact

## Coordination Office

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