



Federal Ministry
for Economic Affairs
and Climate Action



MITTELSTAND
GLOBAL
ENERGY SOLUTIONS
MADE IN GERMANY

energy solutions – made in Germany

IX SIMPÓSIO GERMANO-CABO-VERDIANO DE ENERGIA

„EFICIÊNCIA ENERGÉTICA E ENERGIAS RENOVÁVEIS PARA O SETOR DO TURISMO EM CABO VERDE”

Christiane Vaneker, RENAC AG
23 de Maio 2023, Sal, Cabo Verde



Deutsch-Portugiesische
Industrie- und Handelskammer
Câmara de Comércio e Indústria
Luso-Alemã

Facilitator

 **renac**
renewables academy

The German Energy Solutions Initiative

- Facilitates business partnerships in the field of renewables, energy efficiency technologies, smart grids and storage technologies
- Based on a **parliament decision** 2002 with the aims
 - to support SMEs
 - to distribute smart and sustainable energy solutions
 - to contribute to international climate protection
- Coordinated and financed by the **German Federal Ministry for Economic Affairs and Climate Action**

We offer

Information about German energy solutions:

- **Online database:** Profiles and contact information of German companies
- **Latest information** about German energy solutions
- **Upcoming events** of the Initiative
- **Newsletter**

Networking and business opportunities with German companies both in your country and in Germany:

- **Energy trade missions** with one-day seminar and individual business meetings
- **Foreign trade fairs**

Know-how exchange:

- **Fact-finding missions** to Germany with first-hand information on energy solutions made in Germany, on-site visits and networking opportunities
- Showcases of **flagship projects** around the world



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The German Energy Transition

“Energiewende”



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The energy transition is the guarantor of a secure, climate-neutral and economically successful future



Mitigating
climate change



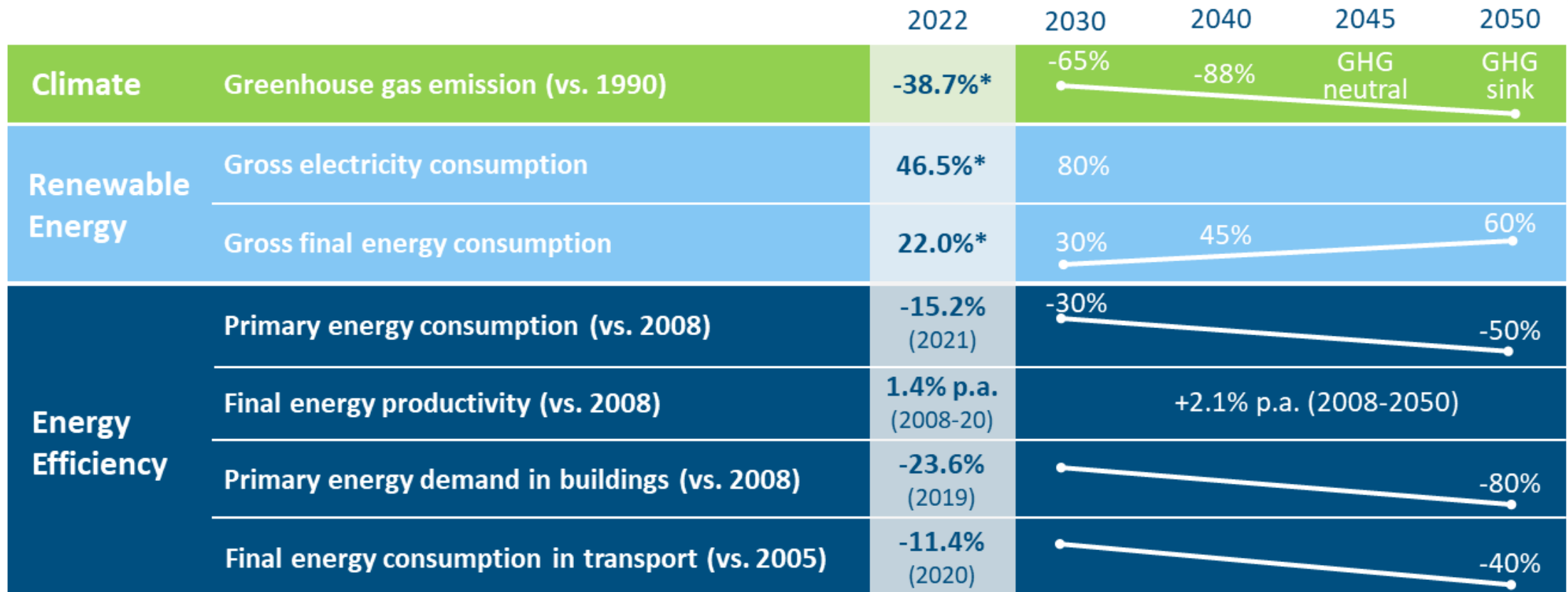
Reducing
dependency on
fossil fuel imports



Improving
energy security

Source: Guidehouse 2023 based on BMWK 2022

The *Energiewende* is Germany's long-term energy and climate strategy



*preliminary data

Source: Guidehouse 2023 based on Agora Energiewende 2023, UBA 2022 & BMWK 2021

Germany accelerates the energy transition to address the energy crisis

Renewable energy*



Electricity generation: + 11%



Expansion of installed capacity PV: + 31%



Expansion of installed capacity wind onshore: + 9%

*January - September 2022 compared to same period in 2021

Buildings & energy efficiency



Share of heat pumps in the heating structure: + 7%**



Reduction of gas consumption by households: - 16.7%*



Reduction of gas consumption by industries: - 14.6%*

* January-September 2022 compared to the same period in 2021

**January-May 2022 compared to 2021

Diversification of energy supply

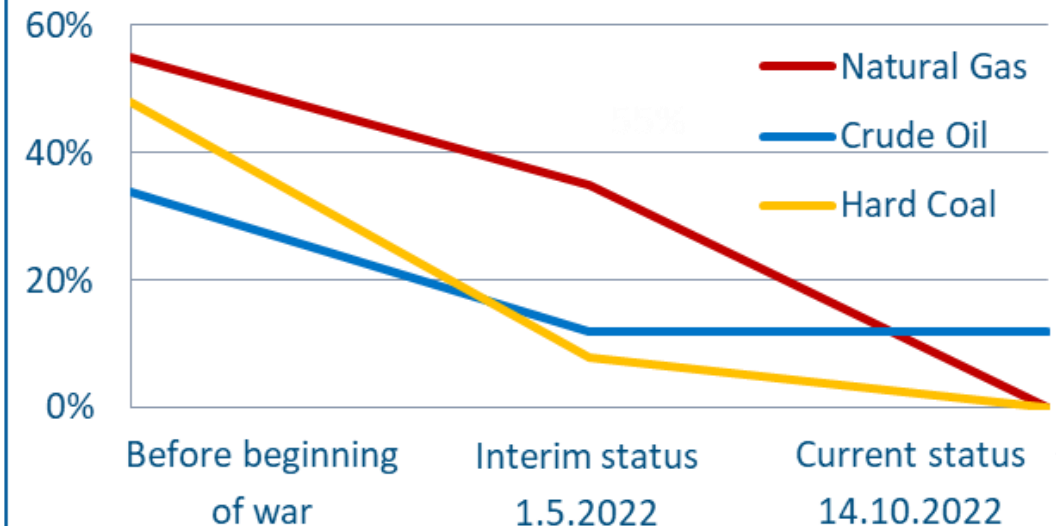


Temporary LNG infrastructure will be H2-ready



Restructuring energy imports and thinking about the fossil-free future:

Development of energy imports from Russia



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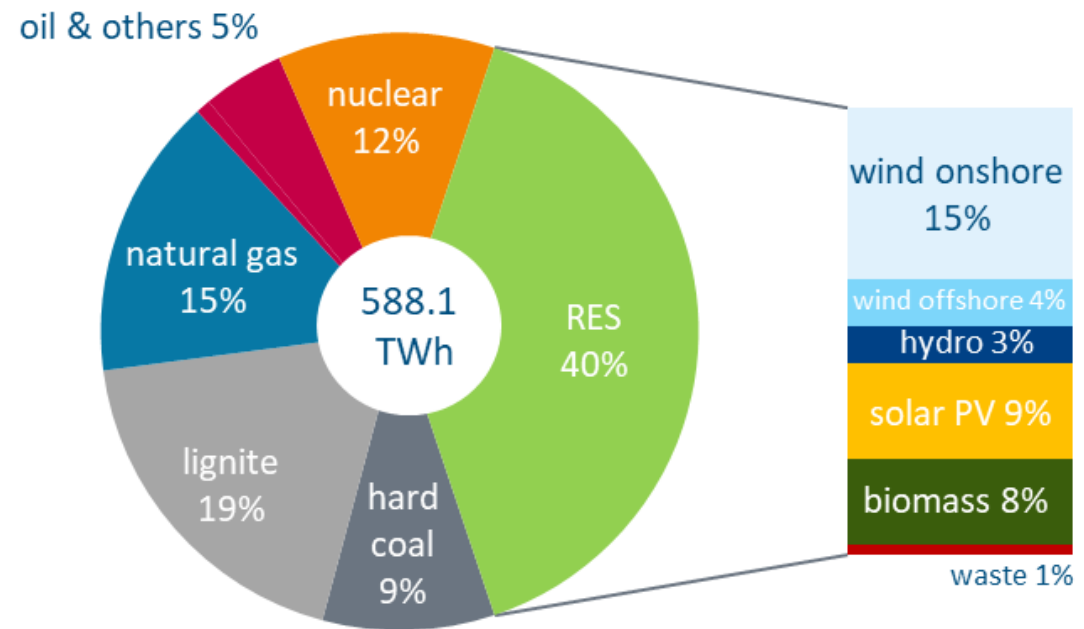
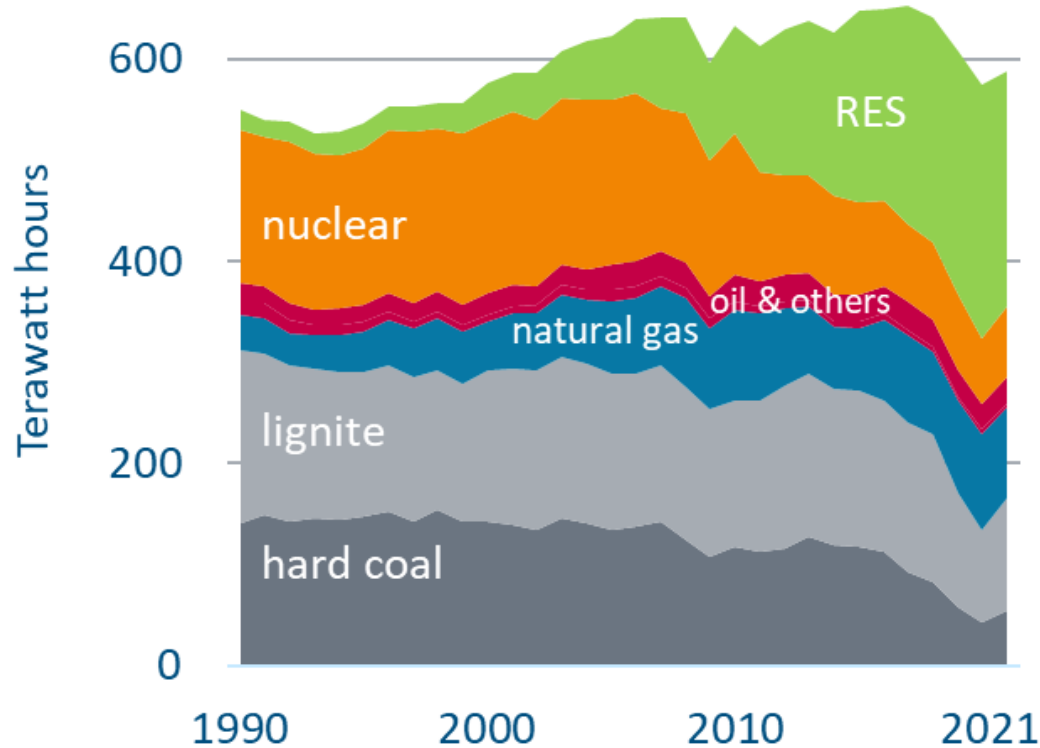
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Renewables have become Germany's No. 1 source of electricity

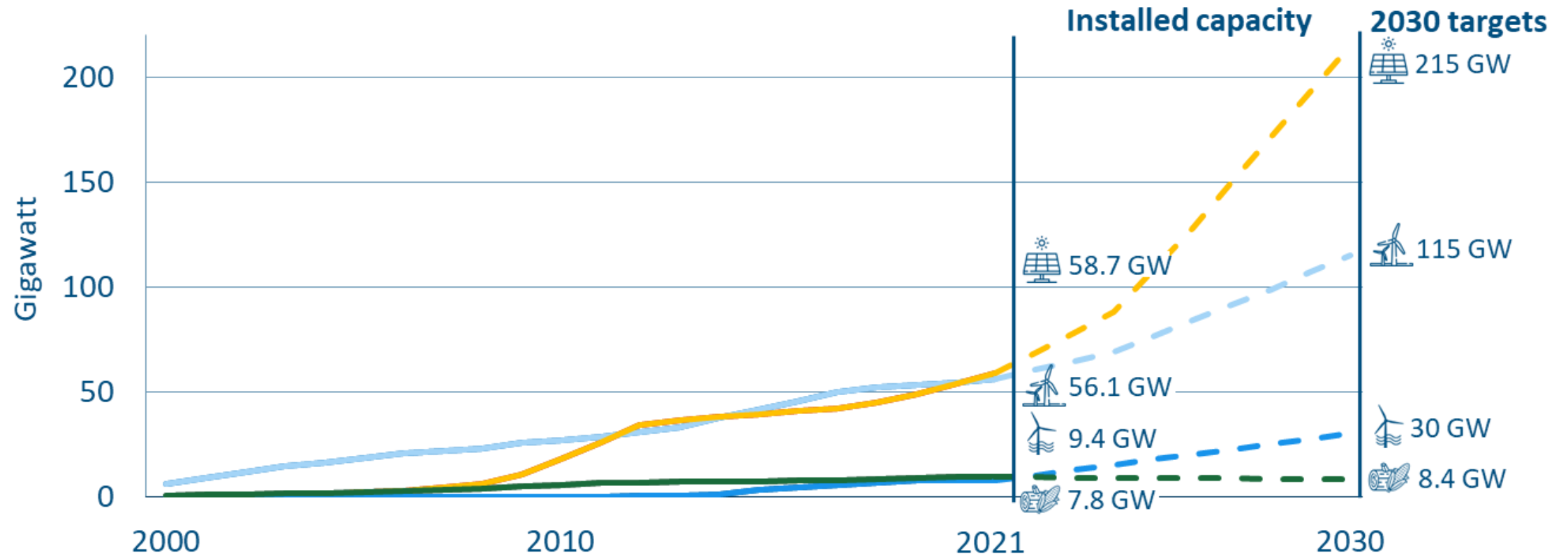
Development and status quo of gross electricity generation by sources in Germany in 2021



Source: Guidehouse 2022 based on BDEW 2021 & AGEb 2020

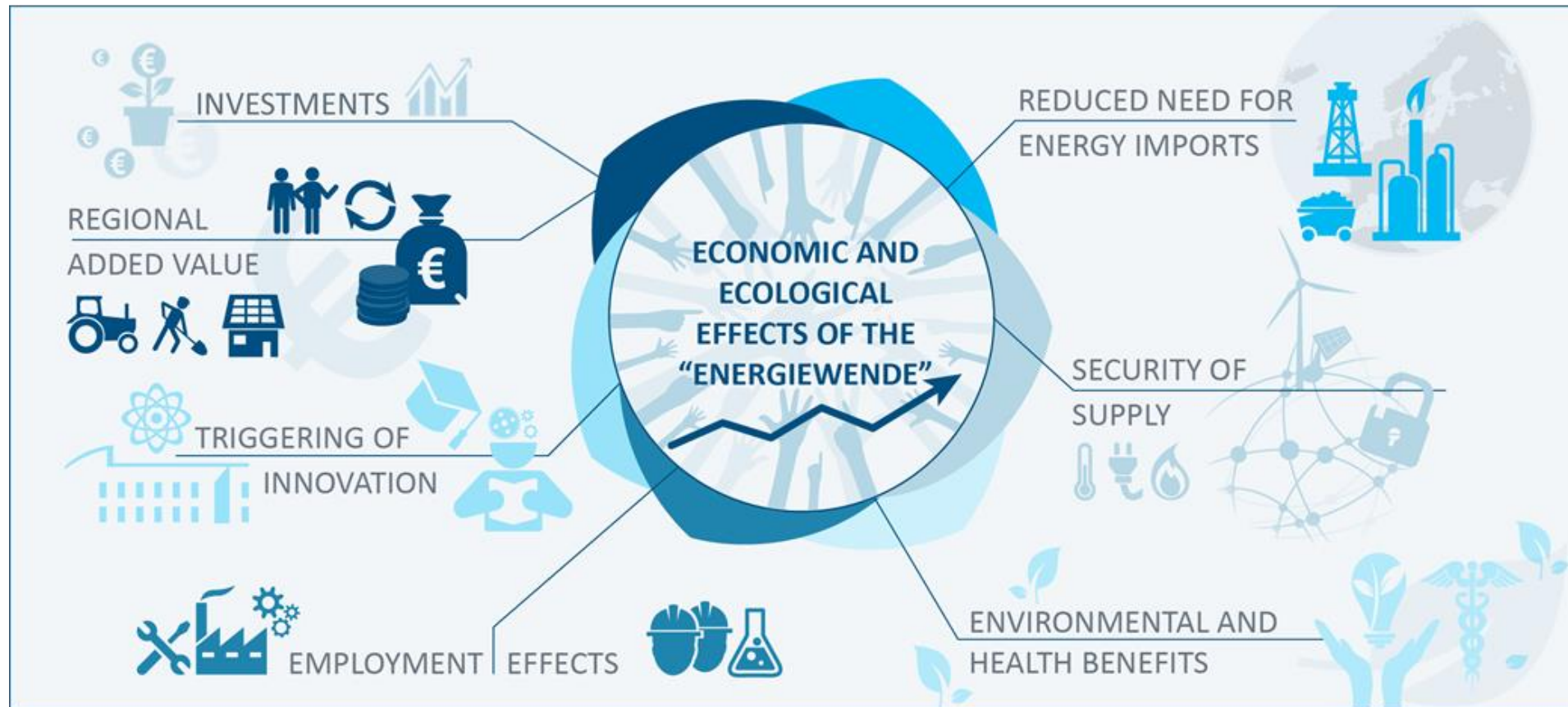
Technology-specific capacity expansion targets make deployment of renewables plannable

Renewable energy installed capacity 2000-2021 and capacity targets for 2030 per technology



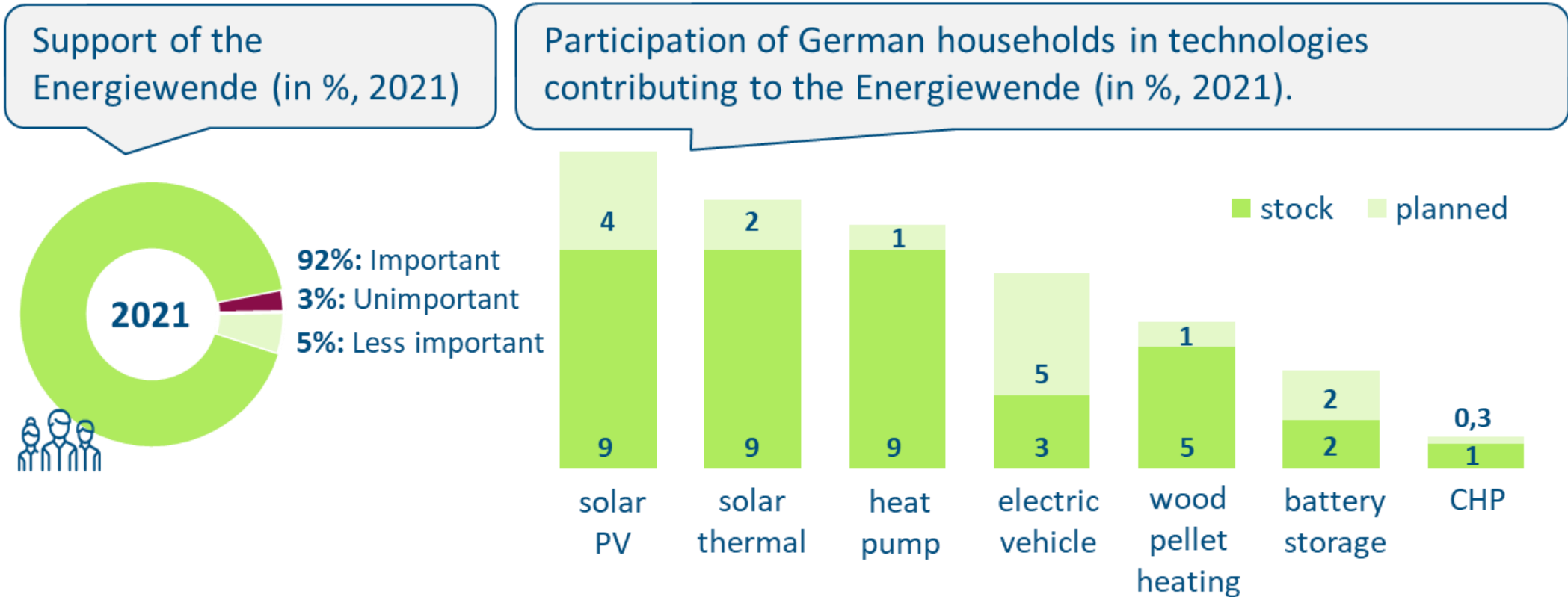
Source: Guidehouse 2022 based on BMWK 2022

The energy transition has positive effects at various levels of the economy



Source: Edelman.ergo 2016

The Energiewende enjoys wide support within the German population



Source: Guidehouse 2022 based on Ariadne 2022 & KfW 2021
Icons designed by Freepik from Flaticon

Renewable energy has become an important economic factor in Germany

Economic factors related to renewable energy sources in Germany in 2021



Employment in renewable energy related jobs
344,100 jobs



Exports of German technology related to renewable energy
€10.6 billion (2020)



Investments in renewable energy sources
€13.4 billion



Economic stimulus from the operation of renewable energy plants
€20.2 billion

Renewables have created almost 13 million jobs worldwide by 2021

Employment* in renewable energies including hydropower in 2021 (in thousands)



Source: Guidehouse 2022 based on IRENA 2022

Contact us

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