

Energy Policy in Germany

Based on information from the German Ministry for Economic Affairs and Energy (BMWE)

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The energy transition triad combines efficiency, direct use of renewables and sector coupling



Energy efficiency



Renewable
electricity



Sector coupling through
electrification and green H₂

Germany adopts ambitious climate measures to achieve climate neutrality by 2045

Energy efficiency & renewable energies

Energy Efficiency Act (EnEfG)
Reduction of end user energy by 26.5% & primary energy consumption by 39.3 % until 2030 compared to 2008.

Renewable Energy Act (EEG)
80% renewable electricity consumption by 2030, almost 100% by 2035.

Considering all sectors

Heat Planning Act (WPG)
By 2030, 50% of total heat is to be generated in a climate-neutral way.

Building Energy Act (GEG)
New buildings may only consume 55% of the primary energy demand of a reference building.

Hydrogen Strategy
10 GW electrolyzer capacity by 2030 & 1.5-3.0 Mio t H2 import by 2030.

Power grid & stations

Power Grid Expansion
Grid Expansion Acceleration Act (NABEG), Federal Requirements Plan Act (BBPlG), and Energy Industry Act (EnWG) accelerate planning a power grid ready for a sustainable future

CO₂-Price & incentives to decarbonize

Carbon Contracts for Difference (CCfDs)
offset additional costs of climate-friendly production technologies.

National ETS
National carbon price for the transport and heat sector. (Currently 55€/ton).

Germany aims to increase energy efficiency through a variety of policy instruments



Energy Efficiency Strategy 2050: Plan to reduce primary energy consumption by 50% by 2050 compared to 2008 levels (across sectors).

Regulations



Building Energy Act (GEG) establishes stringent energy efficiency standards for new and existing buildings



Energy Efficiency Act (EnEfG) binding energy efficiency targets for industries and the public sector



EU Ecodesign: energy labels and ecodesign improve product efficiency

Incentives



Federal Support of Efficient Buildings (KfW) – low-interest loans, grants, bonuses



Federal Support for Energy Efficiency in the Commercial Sector (KfW) – low interest loans, grants, bonuses



E-Mobility incentives: tax benefits, privileged use of public spaces

Market-based instruments



EU-ETS: cap on total emissions from energy-intensive sectors

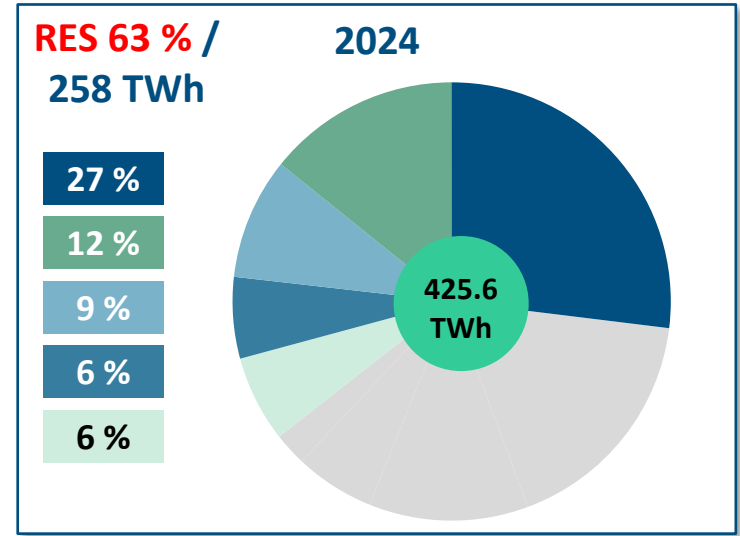
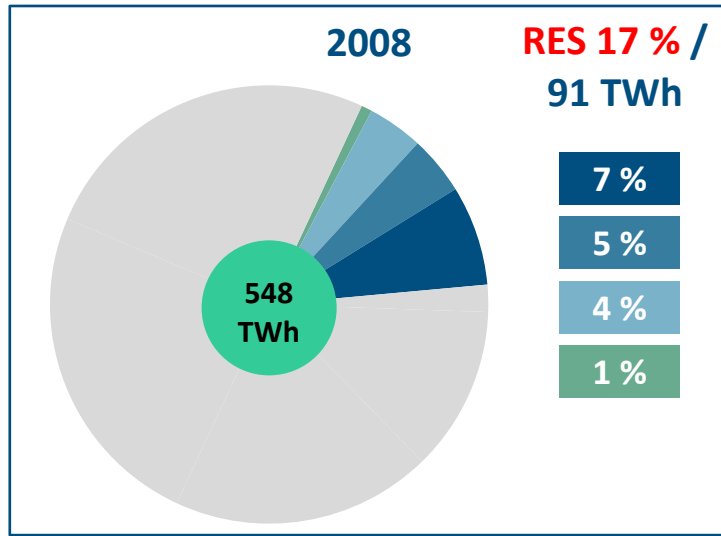


National ETS introduced in 2021 to complement EU ETS, covering CO₂ emissions from fuel combustion in buildings and transport






Wind and solar drive the transformation of Germany's electricity production

Share of renewables on electricity production

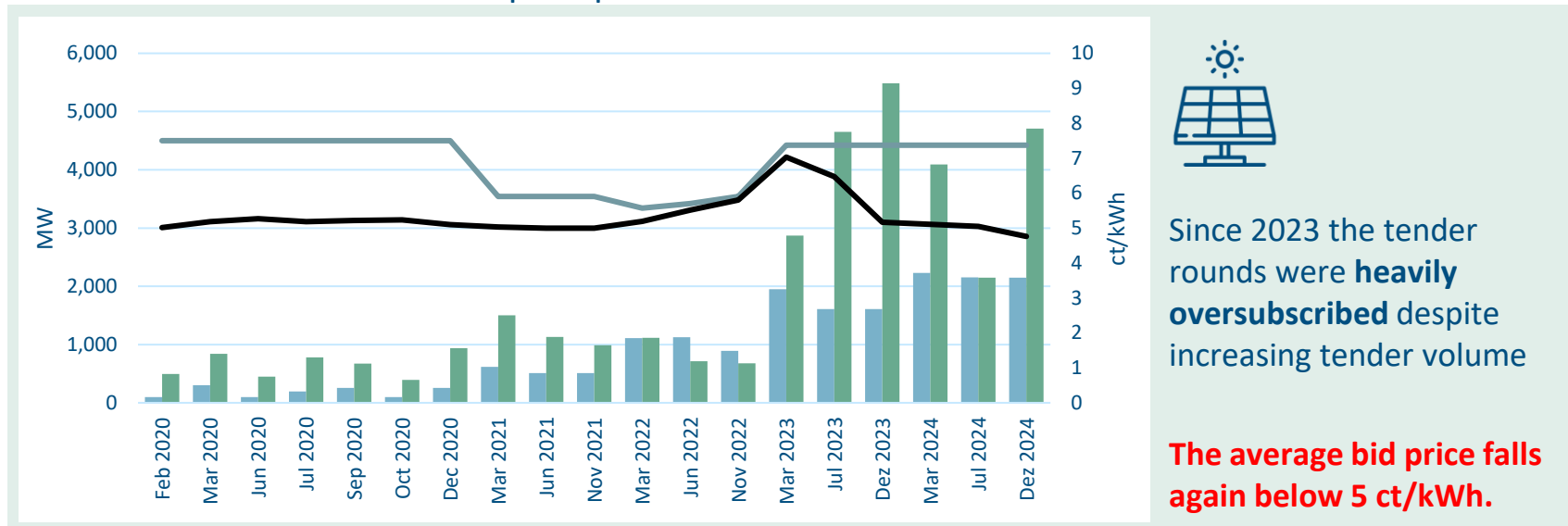


Since 2022 Germany has introduced numerous reforms to facilitate the deployment of PV and wind

PV 	Wind onshore 	Wind offshore 
Acceleration of planning and approval procedures		
Financial participation of municipalities in solar and wind projects		
New Solar-PV strategy with concrete measures to accelerate the expansion of solar power.	Reserving 2% of Germany's land mass for onshore wind by 2032	Increased areas for new offshore wind farms with a new, dynamic process
Introduction of a separate tendering segment for Agri-PV, parking lot PV, floating PV and moorland PV.	Simplified permission procedure to speed up approvals	

The introduction of auctions substantially decreased the support cost for solar PV in open space

Auction results for solar PV in open space



Germany is working with a growing number of countries to support the global energy transition

- Climate and ***Energy Partnerships*** (EPs), ***Energy Dialogues***, and Hydrogen Partnerships are the Federal Government's most important instrument for continuously **exchanging views on energy policy** and economic issues, as well as advances in the energy transition with partner countries worldwide.
- **Key issues** include the expansion of renewables, increasing energy efficiency, the development of decarbonisation technologies and markets, and the system integration of renewable energies. Finding better solutions to all these issues pays off economically for both sides, speeds up the global energy transition, and – thanks to ***growing sales markets – makes them cheaper***.
- **Tunisia** is an important partner in this dialogue, exchange and economic cooperation.