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# Overview of the German power market architecture II

The Erneuerbare Energien Gesetz (EEG) and its role in the deployment of renewable energy assets

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#### Renewable energy policy measures tackle all energy sectors



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## Continuous policy development has fostered the deployment of renewables in Germany



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#### Capacities of renewables are growing steadily

Installed capacities of Germany's most important renewable energy sources in 2020



#### Technology-specific capacity expansion targets make deployment of renewables plannable

Renewable energy installed capacity 2000-2020 and capacity targets for 2030 per technology



The EEG stipulates measures to deploy renewable electricity in a plannable, efficient & secure way

	R	€	-+	
Guaranteed grid access & priority dispatch	Technology- specific capacity addition corridor	Support payments: feed-in premium via auctions	EEG surcharge to offset support costs	Regular monitoring and evaluation



The 2017 Renewable Energy Sources Act (EEG) introduced auctions for new installations



## Priority access and feed-in premiums incentivize the market integration of renewables

Remuneration of electricity generation under Renewable Energy Sources Act (EEG)



### Support costs for solar PV declined significantly since the introduction of auctions in 2015



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#### Pre-selected offshore wind areas to be auctioned from 2021 onwards



#### The new EEG shall keep prices low and prevent undersubscribed auctions for onshore wind



- Reduction of the auction volumes for the following round if previous auction was undersubscribed.
- From 2022, the maximum permitted value according to the EEG 2021 will decrease by 2% per year.
- New guota for the southern region: Only bids from the southern region will be awarded preferentially until 15 percent of the auction volume has been reached.



#### **Outcomes and Lessons Learned**

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



# The installed capacity of renewables in Germany has more than tripled during the past decade

Installed capacity of renewable energy sources in Germany



#### EEG – Lessons Learned

- Continuous and stable regulation are key to sustainable deployment of renewables
- Cost-effectiveness monitoring is vital to ensure public support
- Given the cost-competitiveness of today's renewables, market-based deployment schemes appear advisable





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### Thank you for your attention!

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#### Premium system increases market integration of renewables

Types of remuneration under Renewable Energy Sources Act (EEG)



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