



Energy Transition 2017

Planning the Energy Transition: Introduction to the Session

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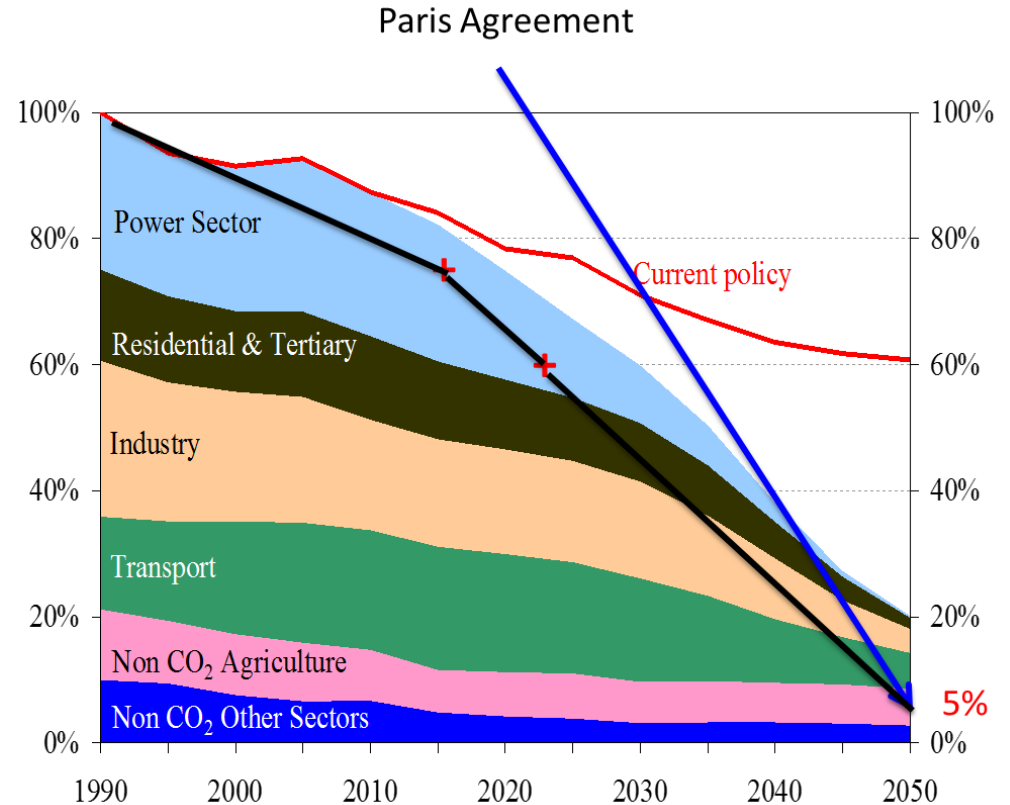
Director, CEPS Energy Climate House

Athénée Palace Hilton Hotel, Bucharest, 30 October 2017

Decarbonisation Roadmap

Future energy system

- Zero carbon power sector
- Electrification of transport and heat
- High share of intermittent renewables



Achievements and challenges of “Energiewende”

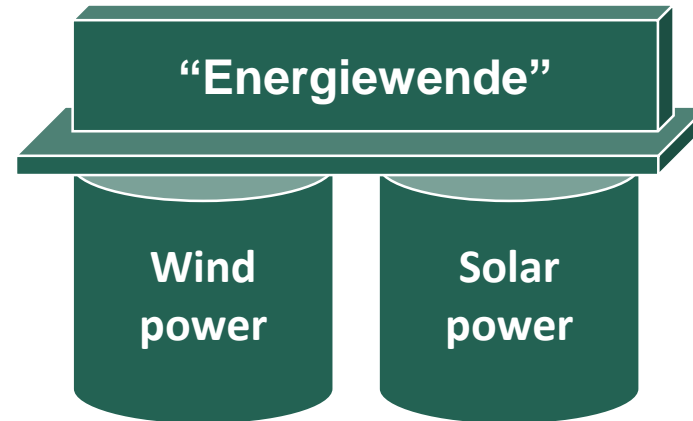
Tailor-made support policy

- Feed-in tariffs:
 - Long-term contracts (up to 20y)
 - Fixed payment for each kWh produced (⇔ no price risk)
 - Net support costs passed on to consumers

Achievements ?

- Installed capacity in 2015:
 - Wind: 42 GW (+150% since '04)
 - Solar: 40 GW (+3580% since '04)
- Feed-in tariffs for Solar:
 - ≤ 57 ct/kWh (2004)
 - ≤ 13 ct/kWh (2014)

-80%



Challenges

- Many design flaws:
 - Overcompensation
 - Increasing costs for households
 - **No volume control**
 - (..)