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# Energiepolitischer Ausblick: Globale Perspektive

*Dr. Uwe Remme*

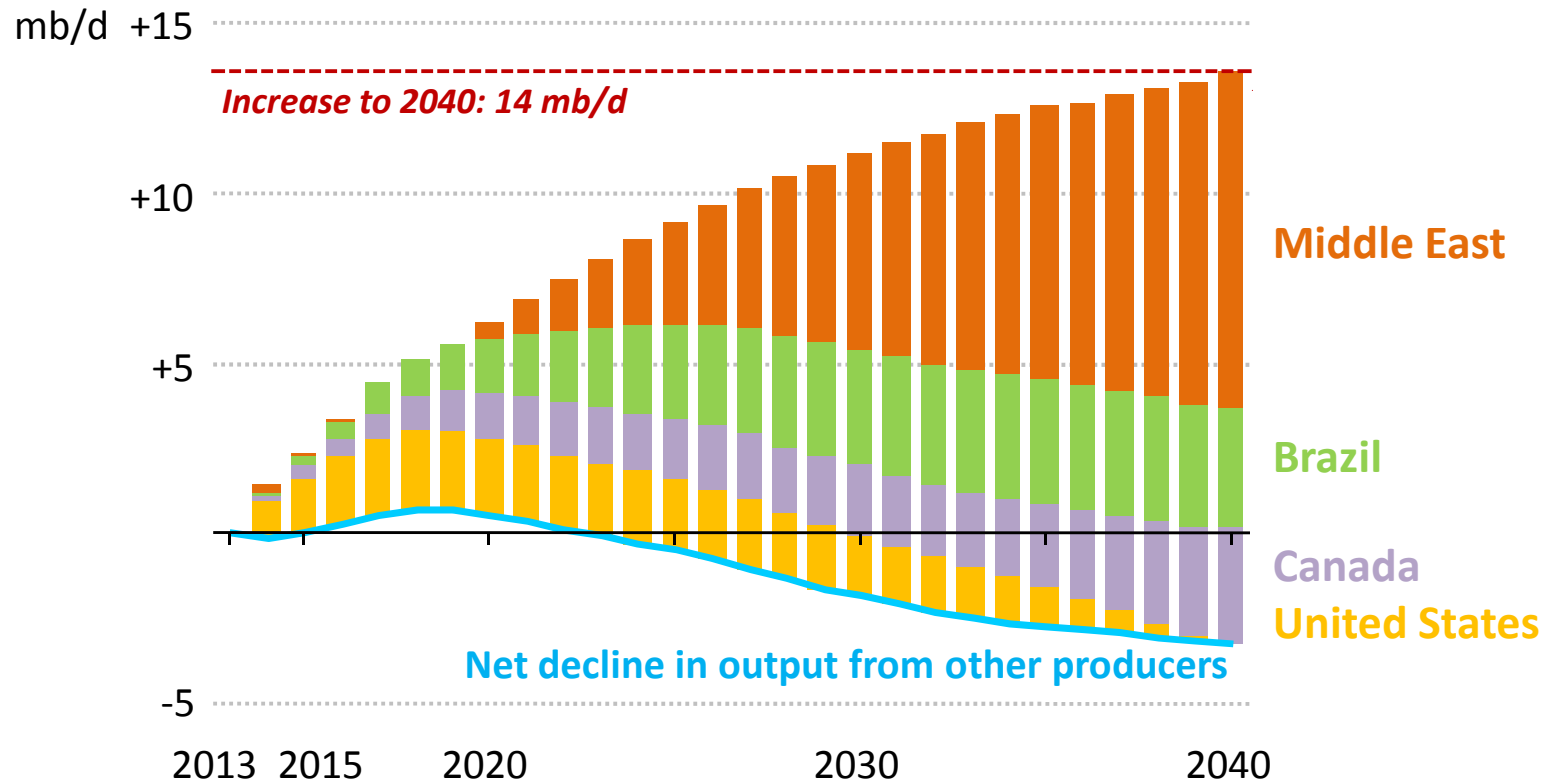
*Stuttgart, 12.2.2015*

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- **Current calm in markets should not disguise difficult road ahead**
  - Turmoil in the Middle East raises doubts over future oil balance
  - Resurgent debate over the security of gas supply to Europe
  
- **Mixed signals in run-up to crucial climate summit in Paris in 2015**
  - Global CO<sub>2</sub> emissions still rising, with most emitters on an upward path
  - At \$550 billion, fossil fuel subsidies over four-times those to renewables
  - Increasing emphasis on energy efficiency starting to bring results
  
- **Will change in global energy be led by policies, or driven by events?**

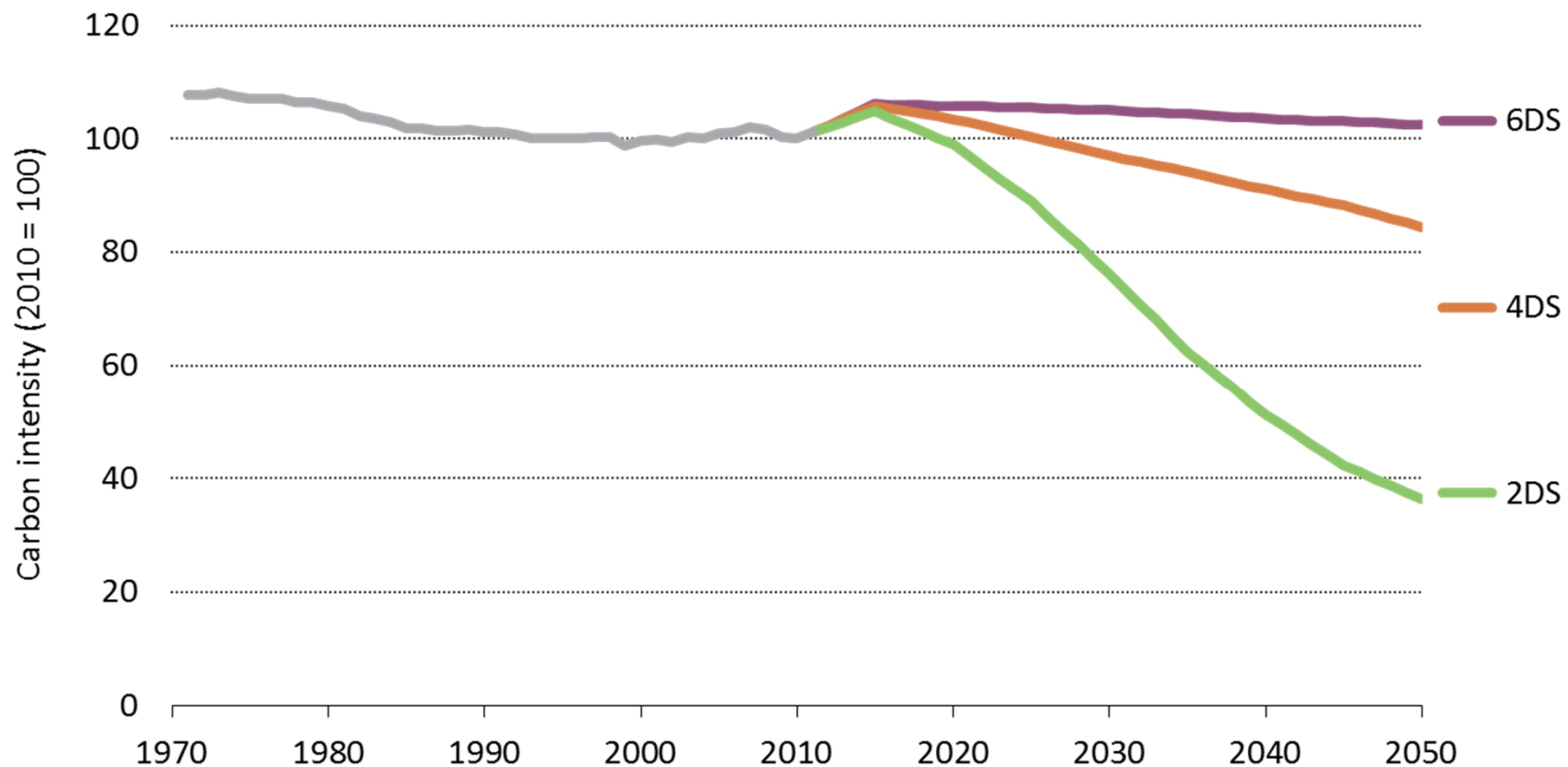
# Instability in the Middle East a major risk to oil markets

## Oil production growth in United States, Canada, Brazil & the Middle East



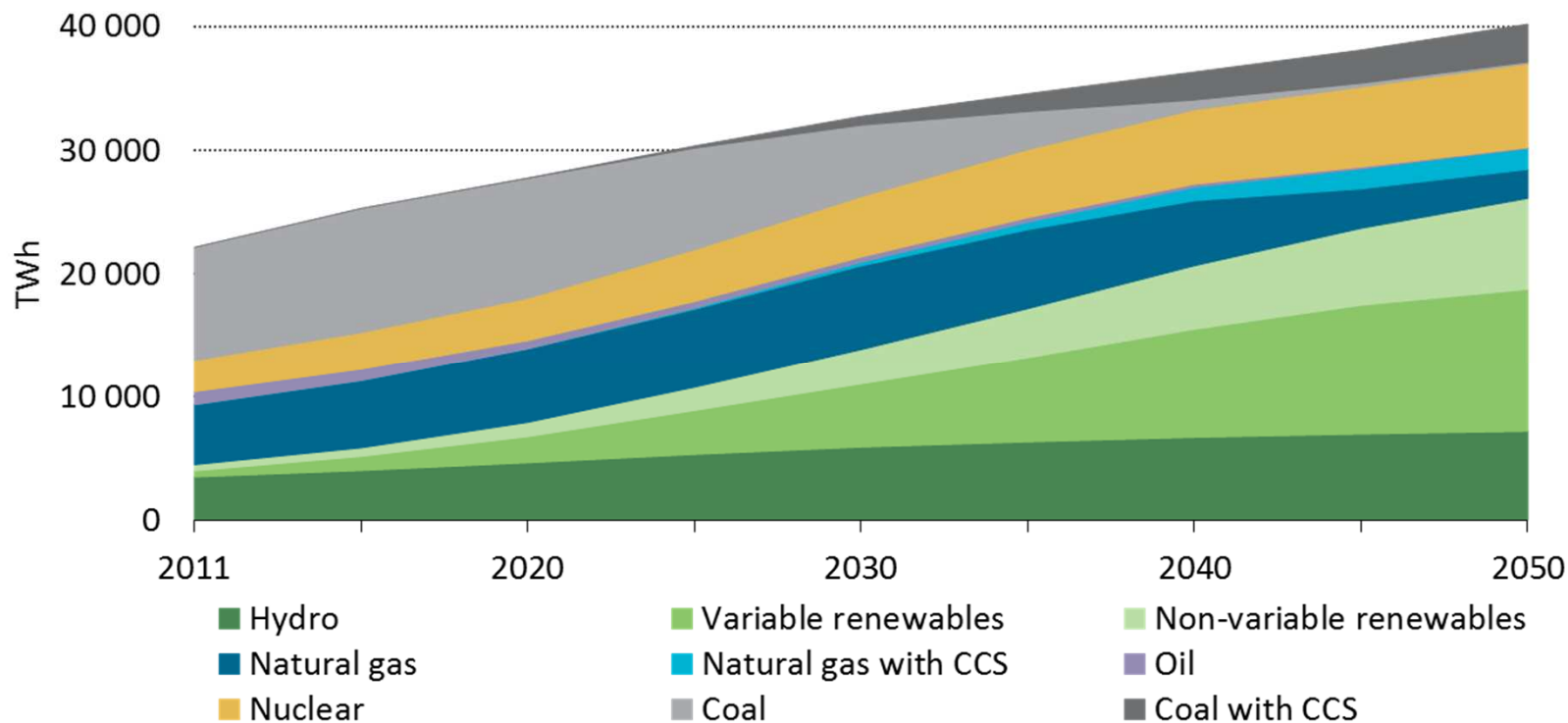
***The short-term picture of a well-supplied market should not obscure future risks as demand rises to 104 mb/d & reliance grows on Iraq & the rest of the Middle East***

# Carbon intensity of global energy supply is stuck



*The political will to make meaningful progress at a global scale has yet to be demonstrated*

# Electricity generation: a share reversal needed



## ■ Generation today:

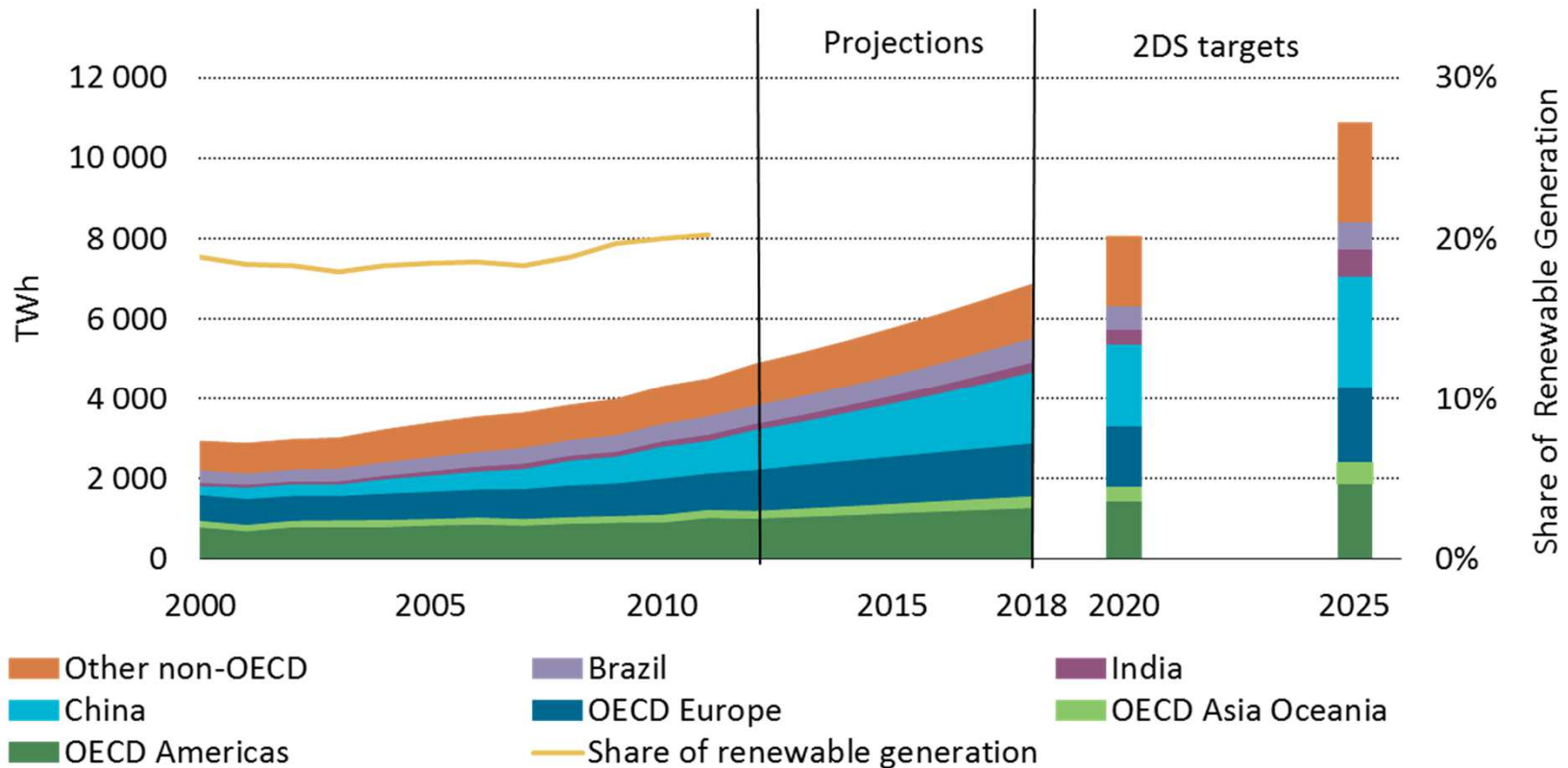
- Fossil fuels: 68%
- Renewables: 20%

## ■ Generation 2DS 2050:

- Renewables: 65%
- Fossil fuels: 20%

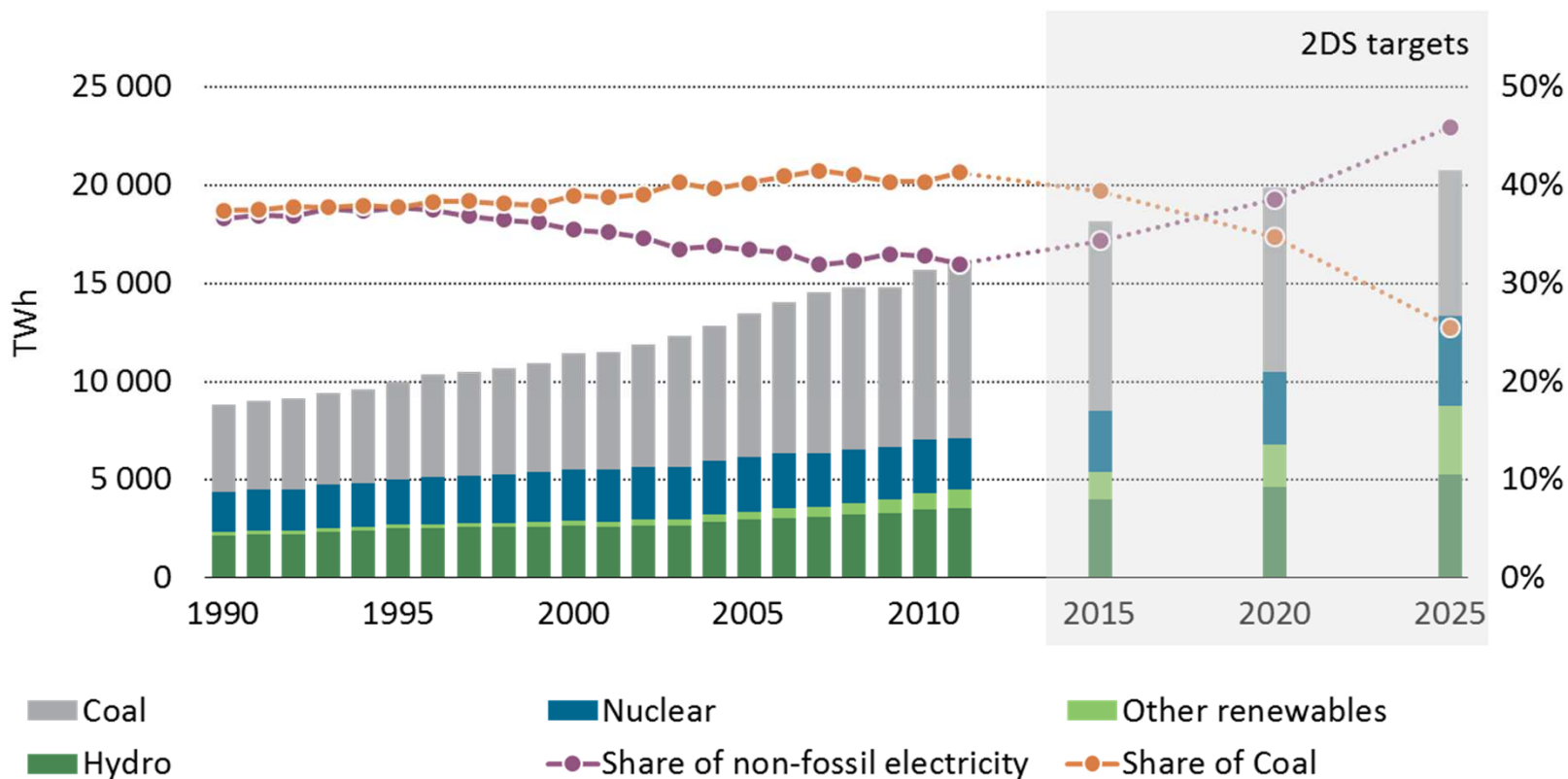
# Progress for renewables...

Total renewable power generation



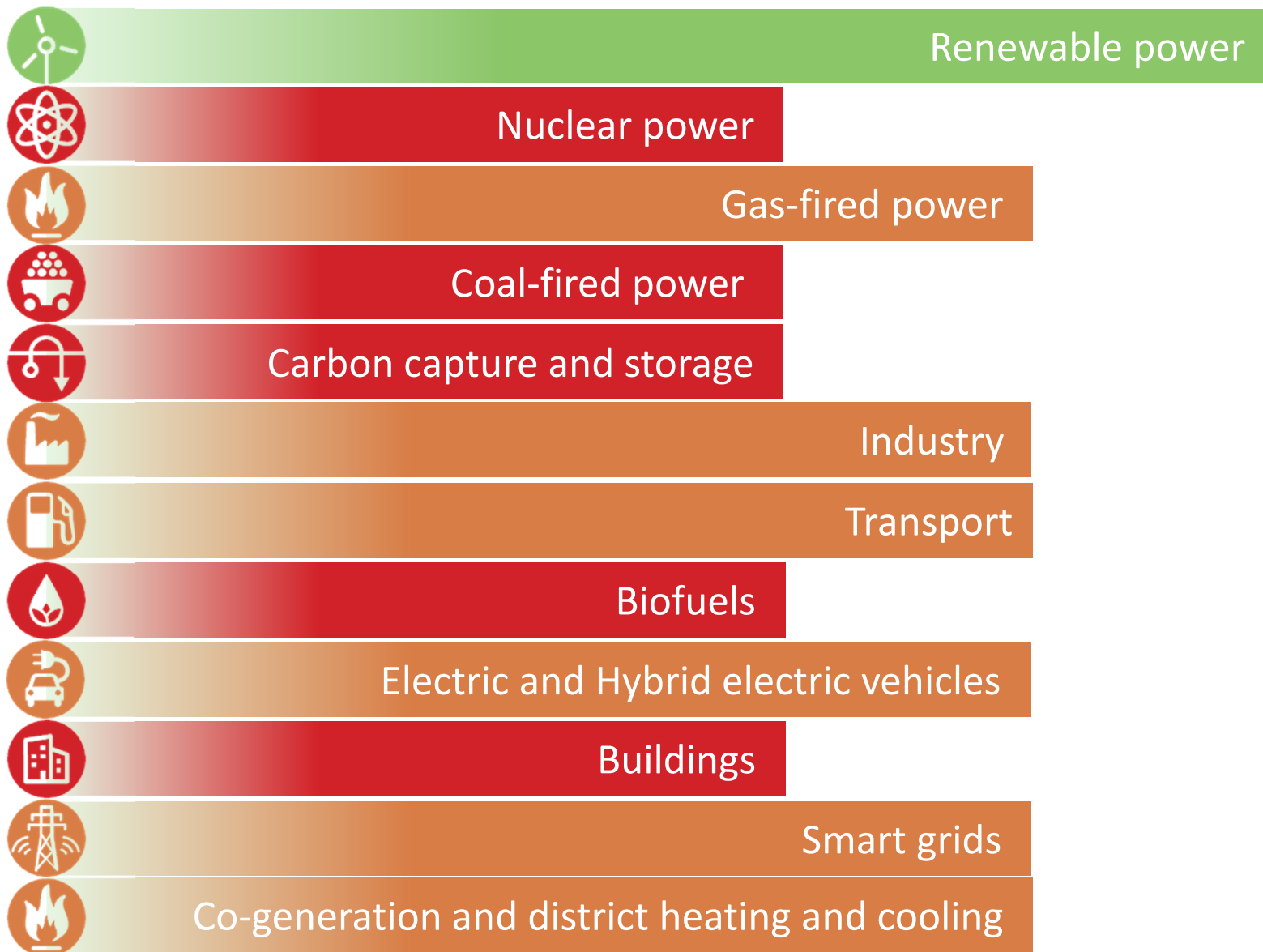
*Emerging economies step up clean energy ambition, but momentum stalls in OECD countries*

# ...but coal is also rising



*Unabated coal use in electricity generation is incompatible with 2 degree objectives*

# Not on track in many technology areas





- **Geopolitical & market uncertainties are set to propel energy security high up the global energy agenda**
- **Volatility in the Middle East raises short-term doubts on investment & spells trouble for future oil supply**
- **Without clear direction from Paris in 2015, the world is set for warming well beyond the 2 °C goal**
- **Far-sighted government policies are essential to steer the global energy system on to a safer course**



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**Thanks!**

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