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ESMH Summer School, June 2022

The energy transition in the context of the Green Deal

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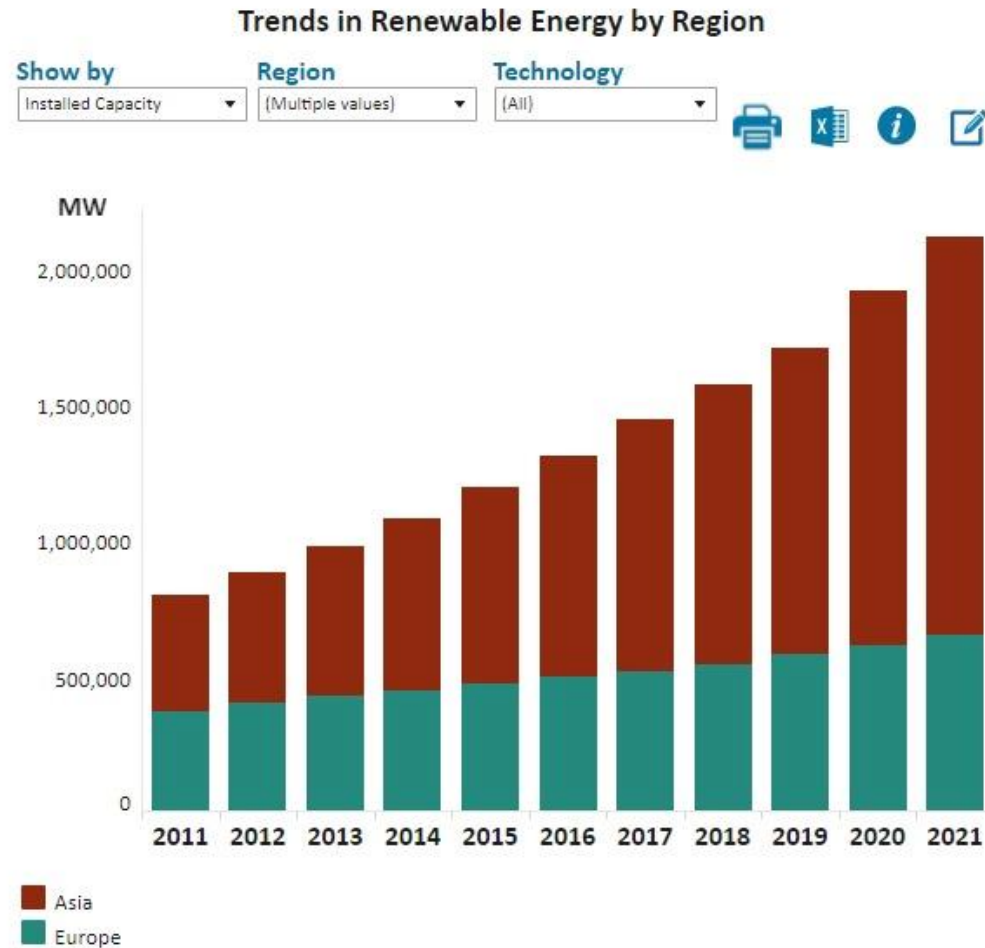
08 June 2022



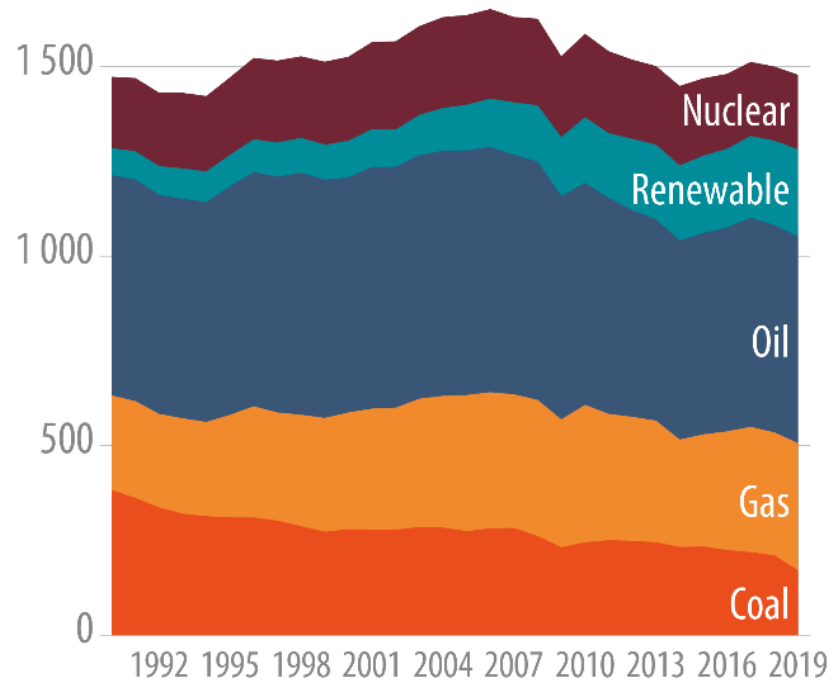
I.

Europe leading the green revolution?

Europe as a global green leader?

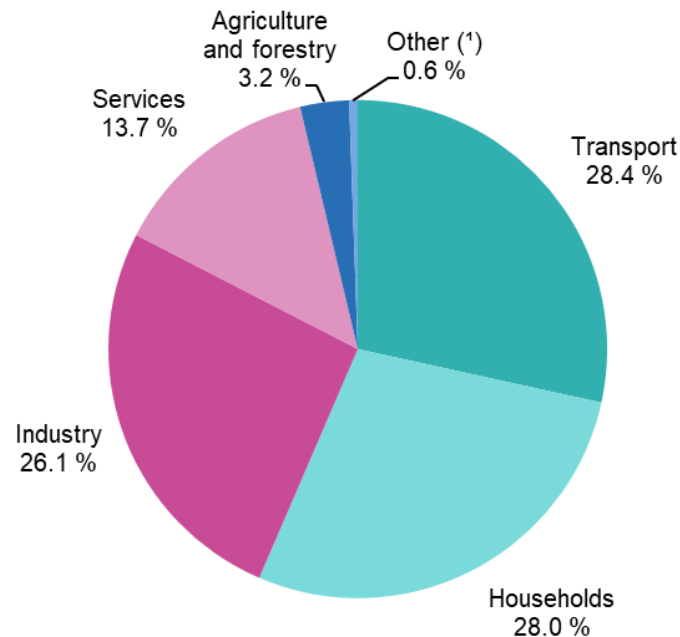


A slow transition (energy consumption Mtoe)



Who consumes what?

Final energy consumption by sector, EU, 2020
(% of total, based on terajoules)



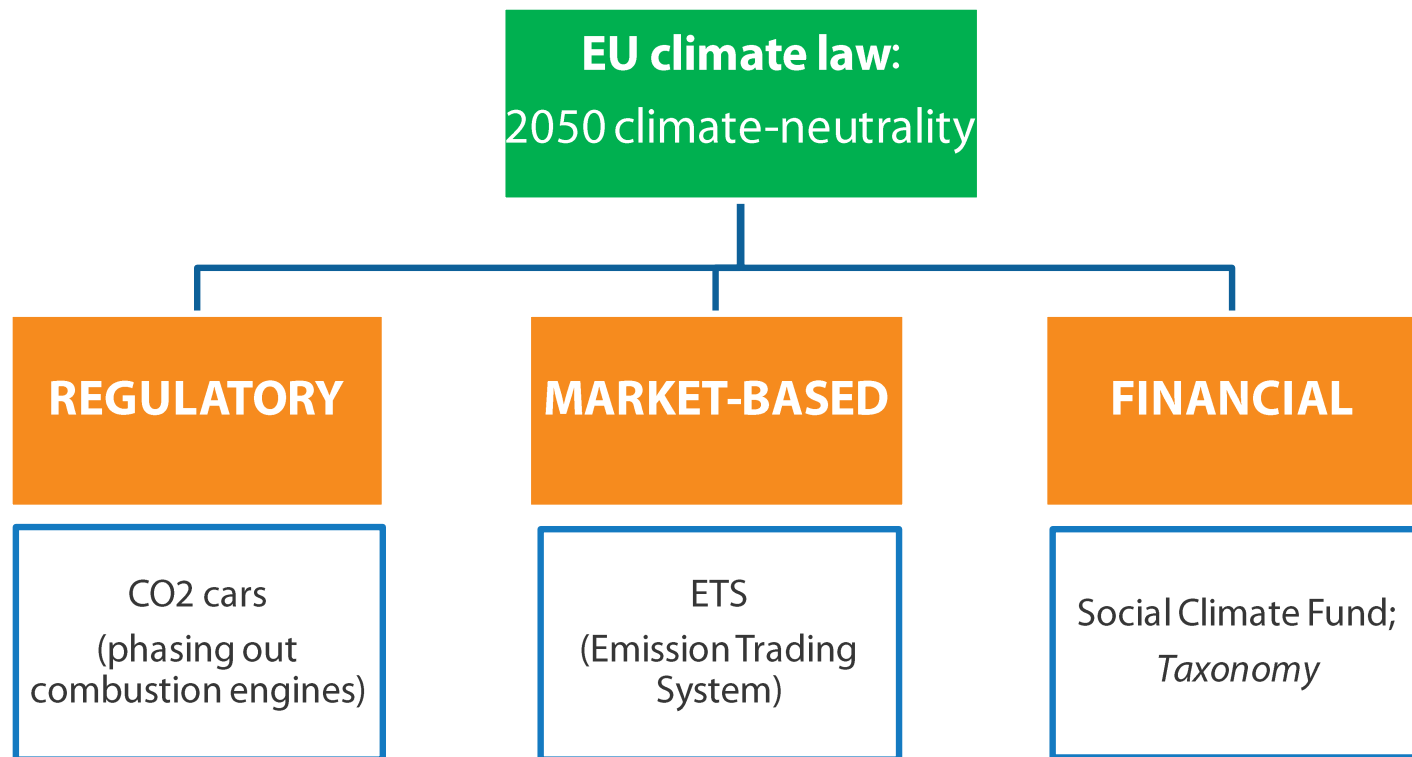
(¹) International aviation and maritime bunkers are excluded from category Transport.

Source: Eurostat (online data code: nrg_bal_s)

II.

Green Deal

The Green Deal: it's all linked



To be voted at later stage (1st reading)

1. **Renewable Energy Directive** – *EC proposal*

- By 2030: 45% final energy consumption to come from renewable sources (upgraded by REPowerEU from 40%)
- Up from 32.5% target currently in force
- EU-level target vs national indicative targets

(2020 comparison: renewable energy = 22% of energy consumption)

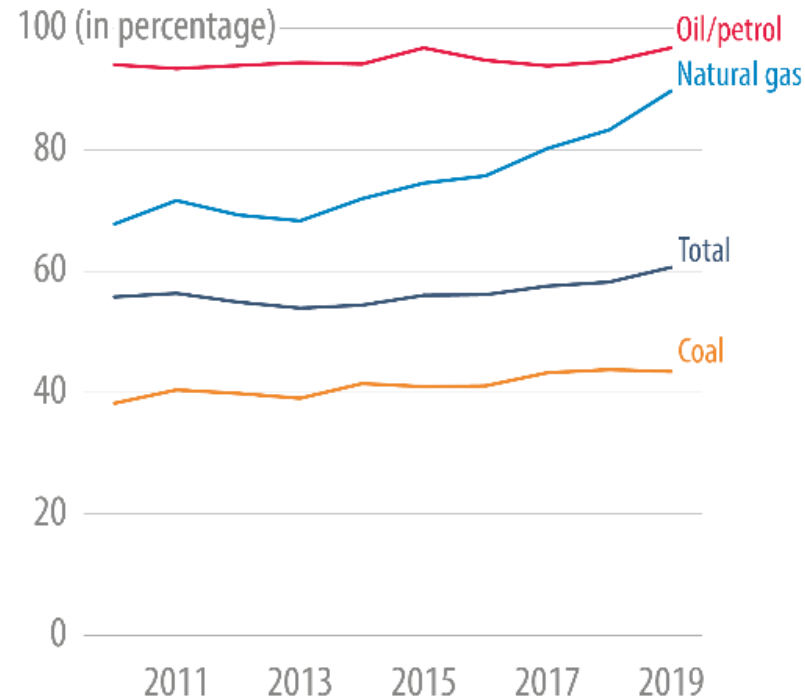
2. **Energy Efficiency Directive** – *EC proposal*

- By 2030: an additional 13% energy savings compared to 2020 reference scenario (upgraded by REPowerEU from 9%)
- Up from 32.5% current EU headline target
- Binding EU-level target (“collectively”), so far only “EU headline target”

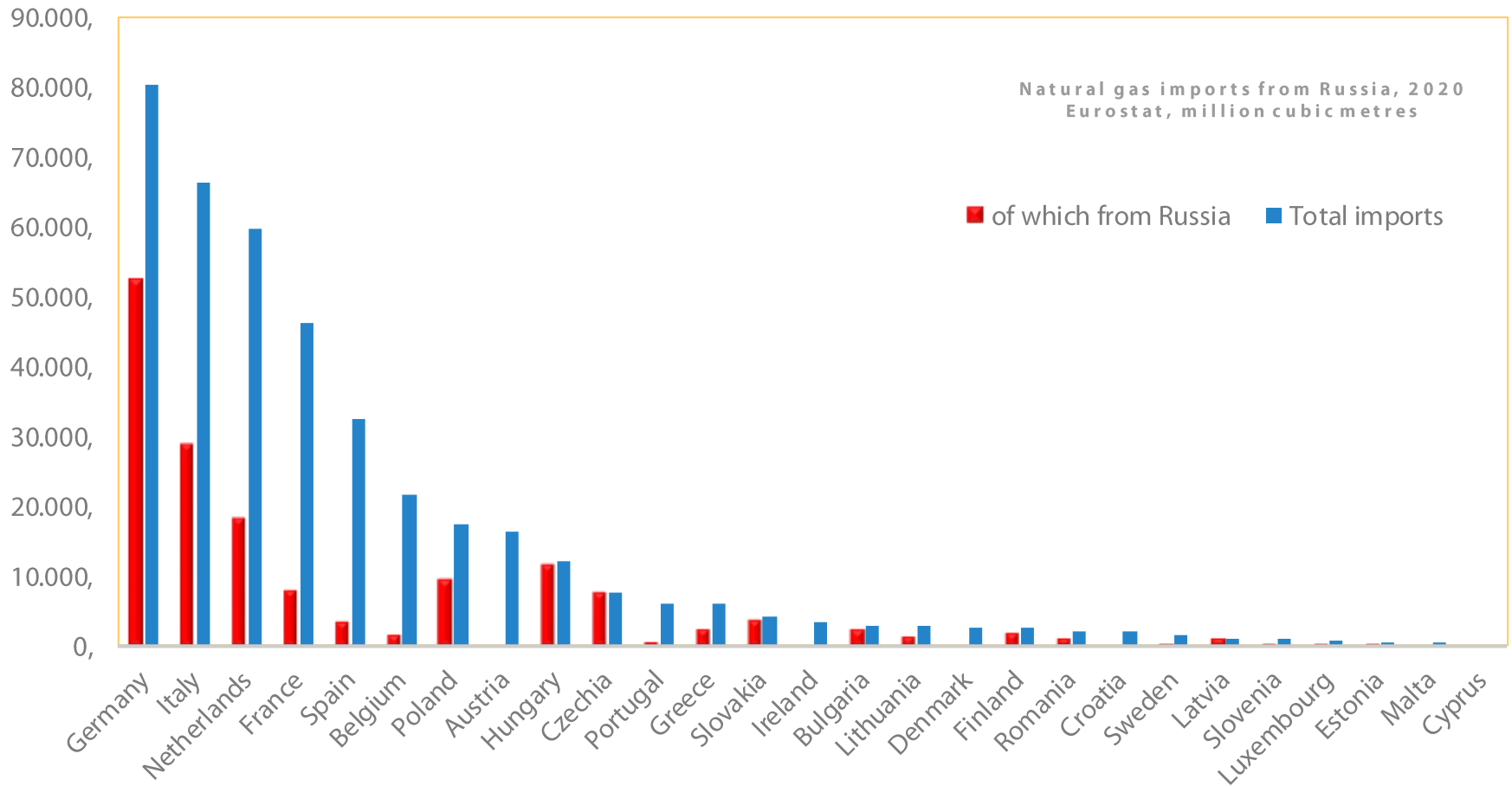
III.

REPowerEU

EU import dependence per energy source



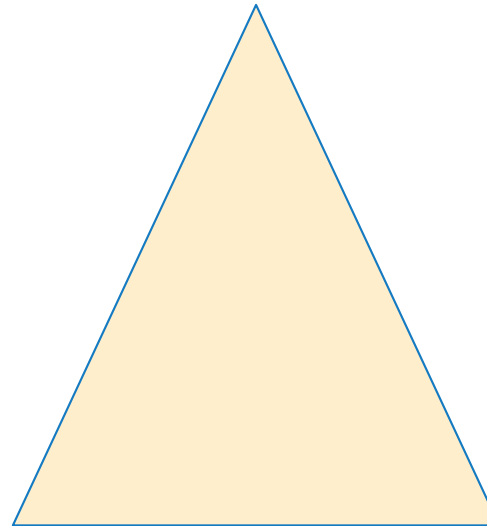
The EU's unequal dependence on Russian gas



The energy security triangle

SUPPLY DIVERSIFICATION

- LNG
- pipeline gas (e.g. Algeria)



RENEWABLE ENERGY

- Higher targets
- Investment
- Interconnectors

ENERGY EFFICIENCY & REDUCING CONSUMPTION

- More ambitious energy efficiency targets
- Coordinated mechanism

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