



European Guarantee of Origins and Market Liberalization

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European Market Liberalization

A choice in Supplier

- In 2007 EU member states were forced to provide supplier options

A choice in Product

- Guarantee of Origins provide a choice in product

GOs represent the Final Step in European Electricity Market Liberalization



Why Guarantee of Origins?

For Proof-of-Purchase

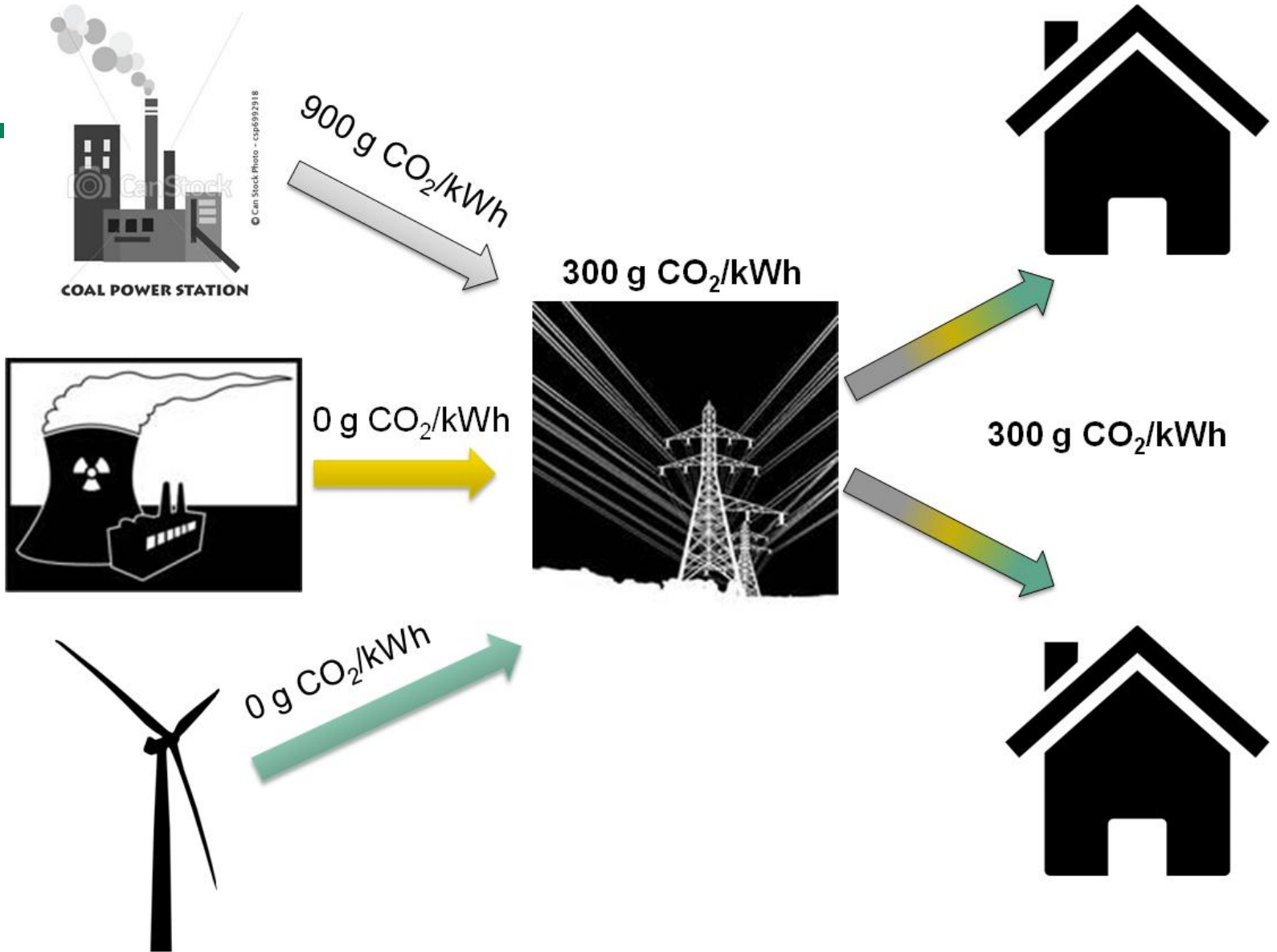
- Environmental attribute tracking and end-user allocation
- Specifically with attributing GHG emissions

Not to meet national targets...

- EU 20/20/20 goals are detached from GO trading
- There is no interaction with EU-ETS

Not to inform your consumers of the fuel mix...

- While GO trade is important for electricity disclosure it is not needed per se





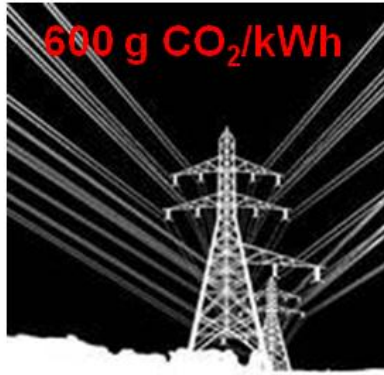
COAL POWER STATION

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900 g CO₂/kWh



0 g CO₂/kWh



Residual Mix
The Left-overs

600 g CO₂/kWh



0 g CO₂/kWh

GO Tracked



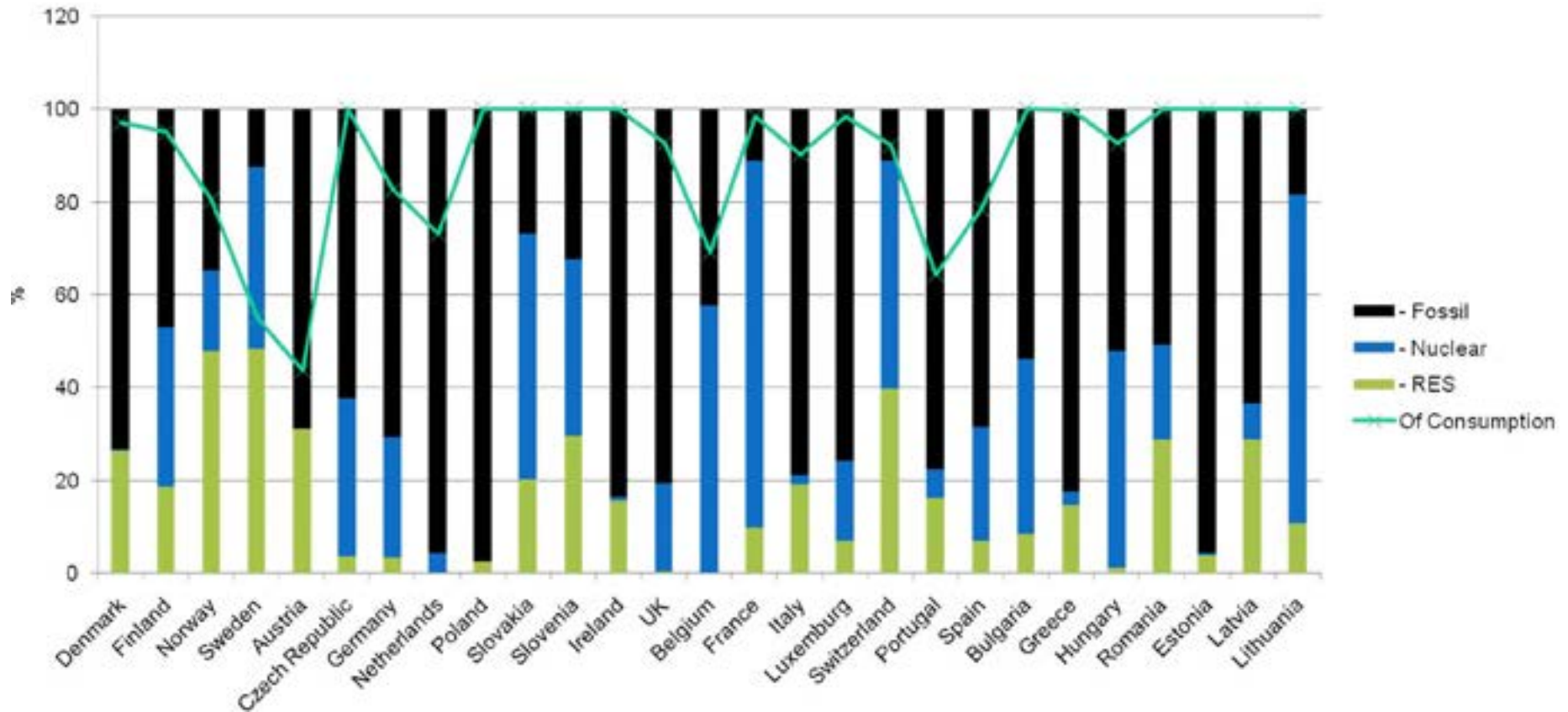
600 g CO₂/kWh





Residual Mix and Attributing GHGs

National Residual Mixes





The Renewable Electricity Standard for Europe

- Standardized tracking (Eligible GO systems)
- Standardized emission factors (carbon accounting)
- Standardized eligibility (starting with RE Technology)

- Additionality and sustainability are addressed via a multi-stakeholder basis (NGOs, Electricity Industry, Large Electricity End-Users)

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