





Mercator Research Institute on Global Commons and Climate Change

Leibniz Association





# Why should we care about the ETS price in 2030 and beyond?

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#### **Outline**

1. The EU's pathway to climate neutrality\*

2. Europe in the grip of the polycrisis

3. ETS today and beyond 2030

4. Takeaways

\* Speaking as Chair of the European Scientific Advisory Board on Climate Change









# The EU's pathway to climate neutrality







# The European Scientific Advisory Board on Climate Change

# "A point of reference for the EU on scientific knowledge relating to climate change"

European Climate Law, Article 3

- Considering latest scientific findings relevant to the EU
- Providing **scientific advice** (e.g. on EU measures, targets, budgets, and their coherence with commitments)
- Contributing to the exchange of independent scientific knowledge
- Identifying actions and opportunities to achieve European climate targets
- Raising awareness on climate change and its impacts, and stimulating dialogue and cooperation between scientific bodies within EU









# Europe in the grip of the polycrisis\*

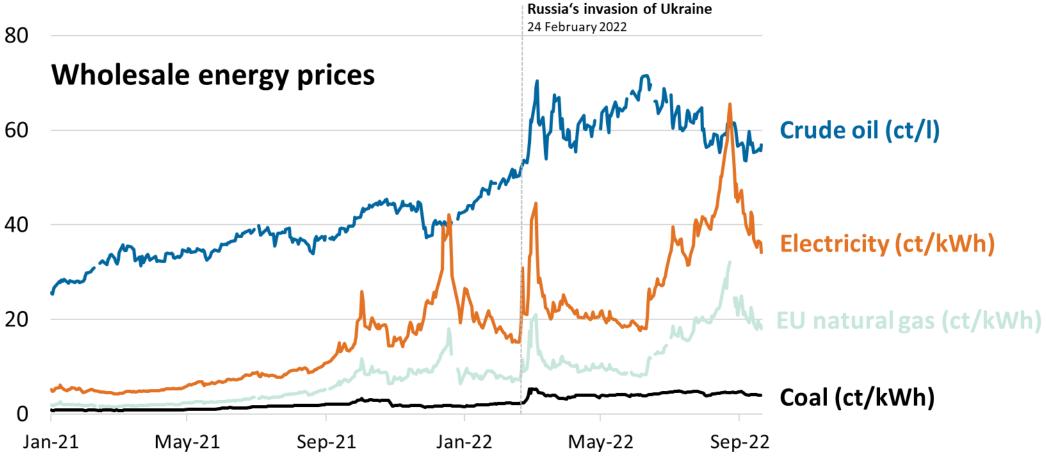
\*Disclaimer: not speaking on behalf of the European Scientific Advisory Board on Climate Change







#### The energy crisis has revived the coal market



Development of wholesale energy prices until 23 September 2022 for: Crude Oil (Brent), Coal (API2, Rotterdam), Natural Gas (Dutch/TTF) and Electricity (Phelix Baseload). Each front month. Source: Independent Chemical and Energy Market Intelligence

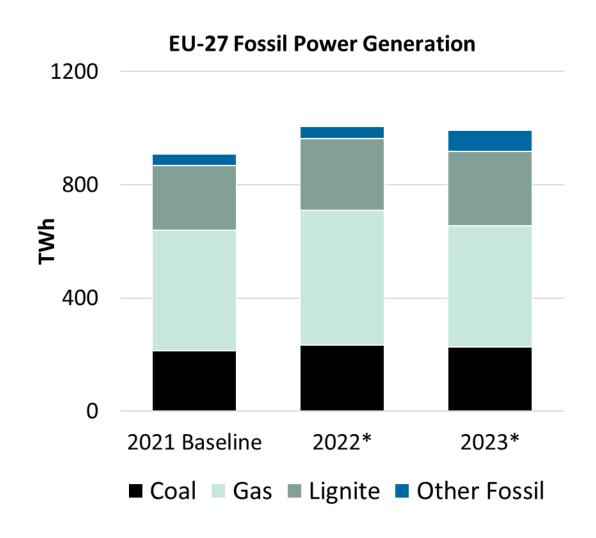


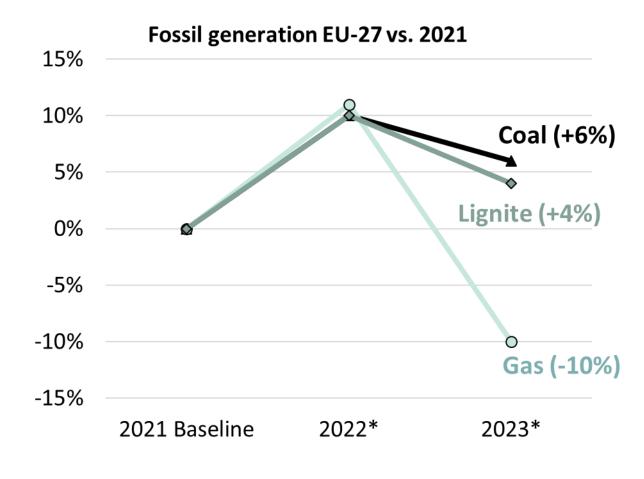






# **EU coal revival puts pressure on EU ETS**





Source: ICIS Power Analytics - Q3 2022 - Base scenario
\* predicted







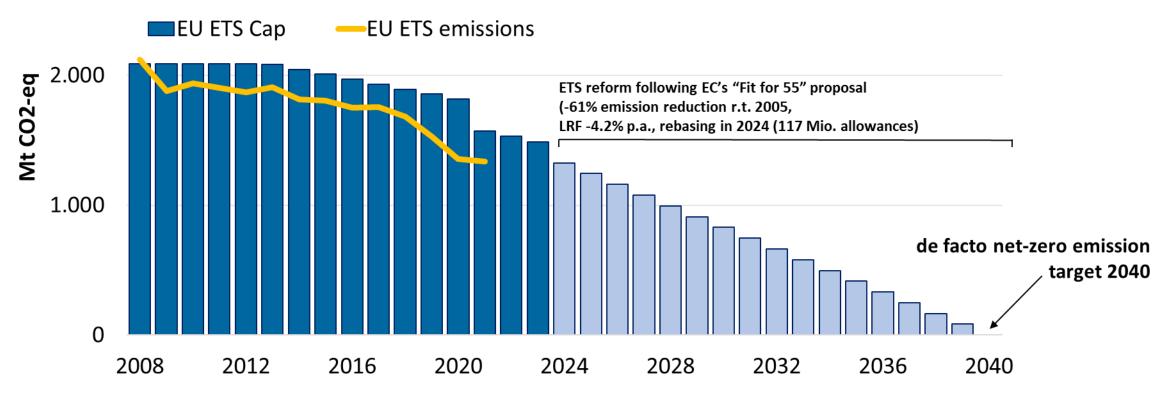


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# The adjusted cap: A clear path to climate neutrality\*

\*in combination with proposed ETS2 for road transport and buildings for around 75% of all EU GHG emissions

#### EU-ETS1 cap (2008-2040) and emissions (2008-2021)



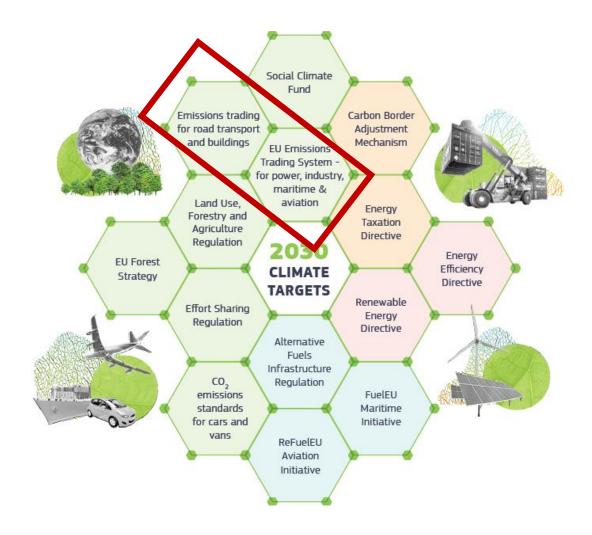
Source: based on Umweltbundesamt, EEA, European Commission







#### Not just about the cap...



Speech | 14 July 2021 | Brussels

Statement by Executive Vice-President Timmermans on delivering the European Green Deal

# In many ways, the **ETS** is front and center to all our efforts.

- With its cap on emissions, it is a proven and effective tool to bring down emissions.
- It gives a price signal to industry to switch to cleaner production, it drives innovation.
- It **generates revenues** for redistribution and reinvestment.









# ETS prices today and beyond 2030\*

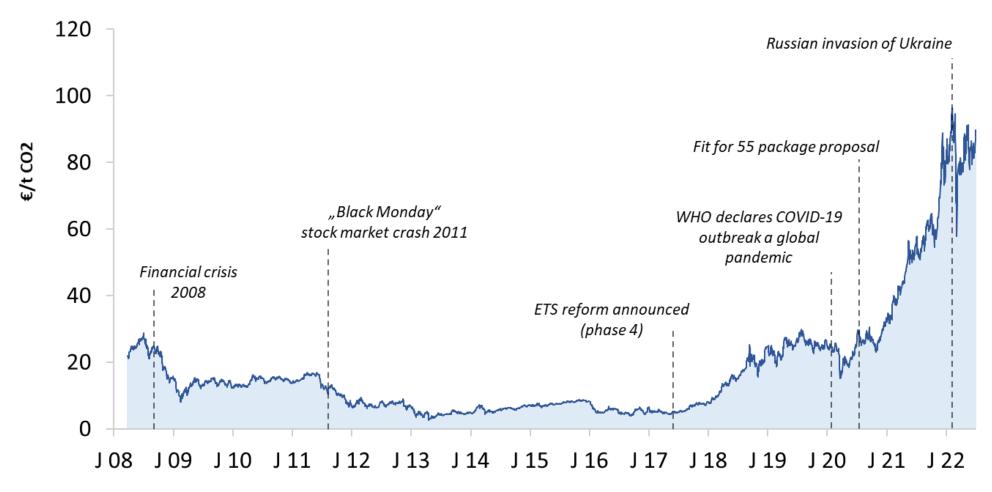
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# EU ETS1 prices are an indicator for scarcity AND (anticipated) political developments



Source: based on ICAP









### The cap is a policy lever. But for decarbonization action prices matter

- Expectation of investors: achievement of 2030 targets depends on current investments
- 2. Revenue sources for green investments at the national and EU level (e.g. CCfDs)
- 3. Need to manage the arising politics of high carbon pricing
- ➤ There is a need (i.e. high information value) of knowing in advance how prices will evolve through 2030 and beyond



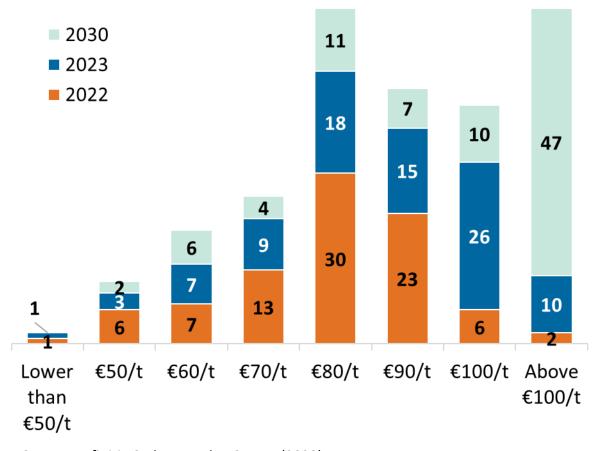




### 1. Expectations drive investment (but how strongly?)

Fig. 1.4. Price expectations: Expensive EUAs

"What do you think will be the average annual price of EUAs in 2022, 2023 and 2030?" (in %)



 Investments triggered not by current prices, but expectation of future prices

- Expectations differ widely
  - investments differ, risk taking matters
- The **higher the expectation**, the more likely **2030 target** will be **achieved**

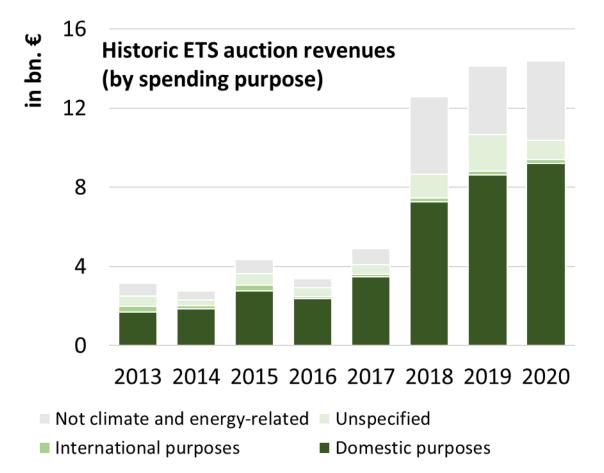
Source: Refinitiv Carbon Market Survey (2022)



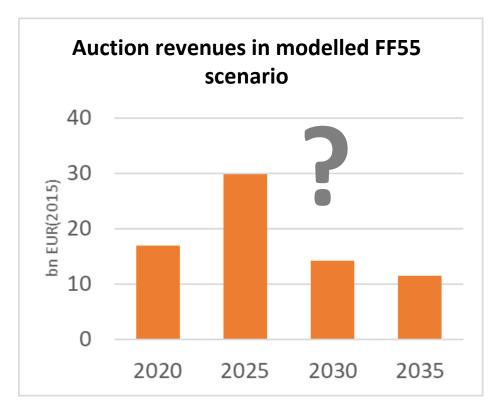




# 2. Revenues will peak with advancing decarbonization, but when and how much?



Source: based on EEA (use of ETS auctioning revenues)



Source: PIK/LIMES-EU model



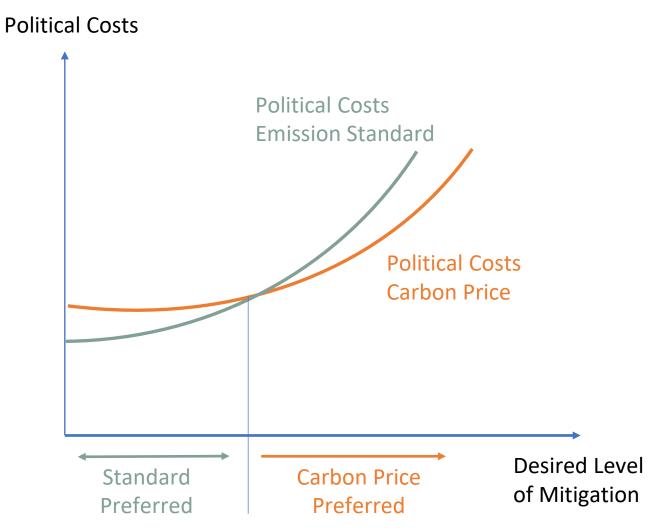






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#### 3. Carbon Pricing will become more important as ambitions increase



- An instrument's political costs
   (PC) is a function of:
  - the salience of its costs (SC)
  - mitigation costs
  - > political system
- Command and control

   instruments entail lower SC, but
   higher mitigation costs than
   market-based instruments
- Hence, command and control instruments have lower political costs for low-mitigation targets

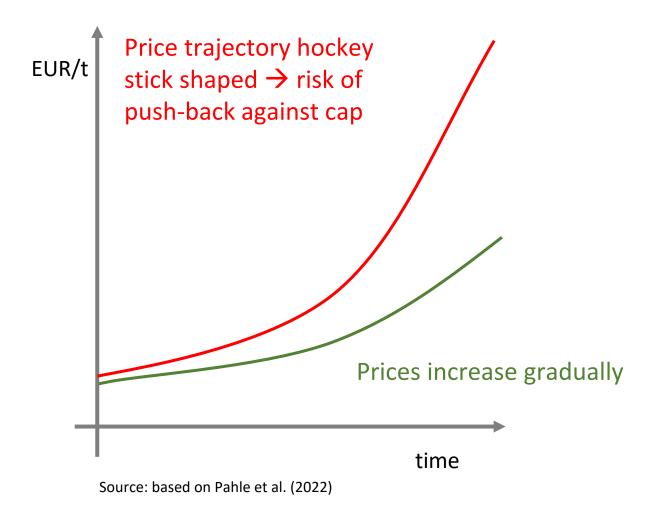
Source: based on M. Jakob







# ...but costs of climate policy are highly transparent: need to safeguard against a push-back when prices become hockey-stick shaped



- Risk that cap will be softened when prices increase too sharply
- **Factors**: high interest rates, sluggish investments, REPowerEU frontloading, etc.
- Safeguarding against potential pushback through:
  - > higher price certainty (corridor)
  - > supporting investments









#### **Takeaways**

- The EU's pathway to climate neutrality must be guided by independent and sound scientific advice
- Despite short-term crisis interventions, long-term climate goals must be sustained → ETS cap plays a crucial role
- Carbon pricing becomes more important as ambitions increase
- High information value of analyzing future prices because:
  - > Drivers of investment
  - > Source of revenues for green investments
  - > Indicators of political costs











# Thank you for your attention!

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