



The Energy and Climate Challenges: EU Firms' Responses and implications

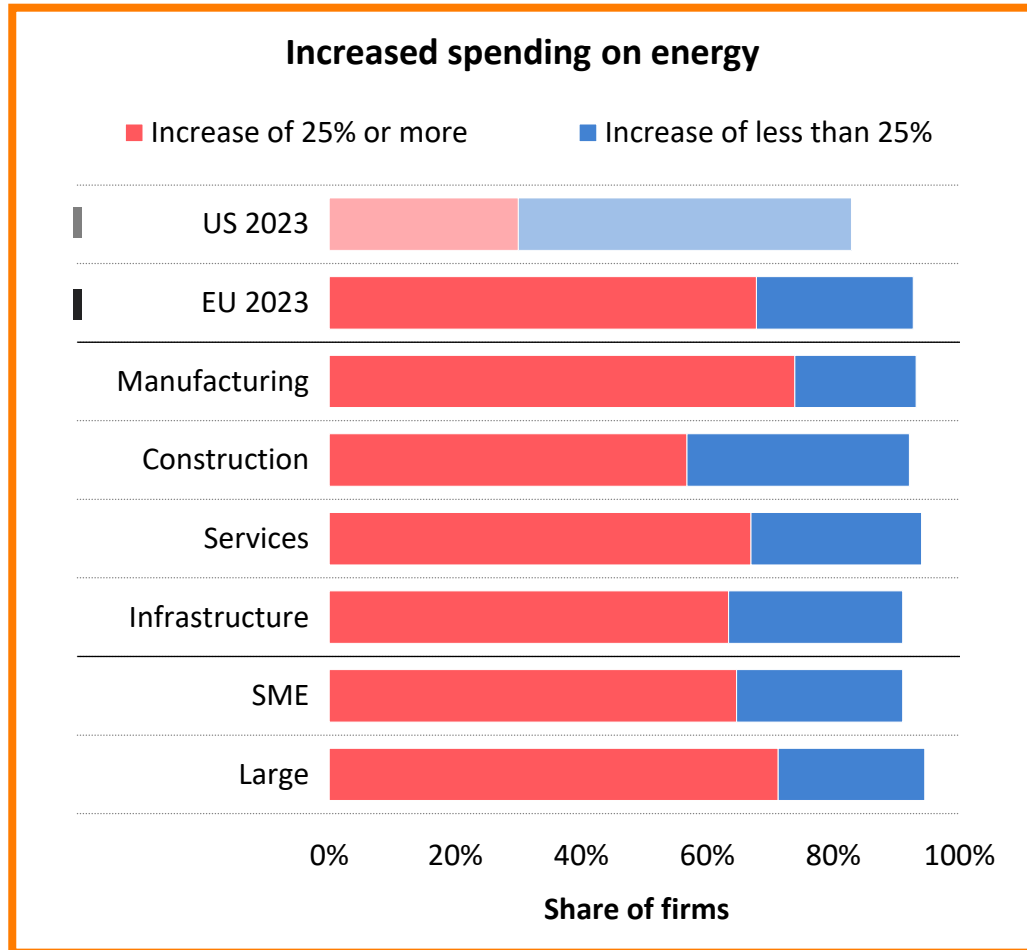
Fotios KALANTZIS

European Investment Bank - Economics Department

Deep dive: How have firms responded to the energy and climate challenges?

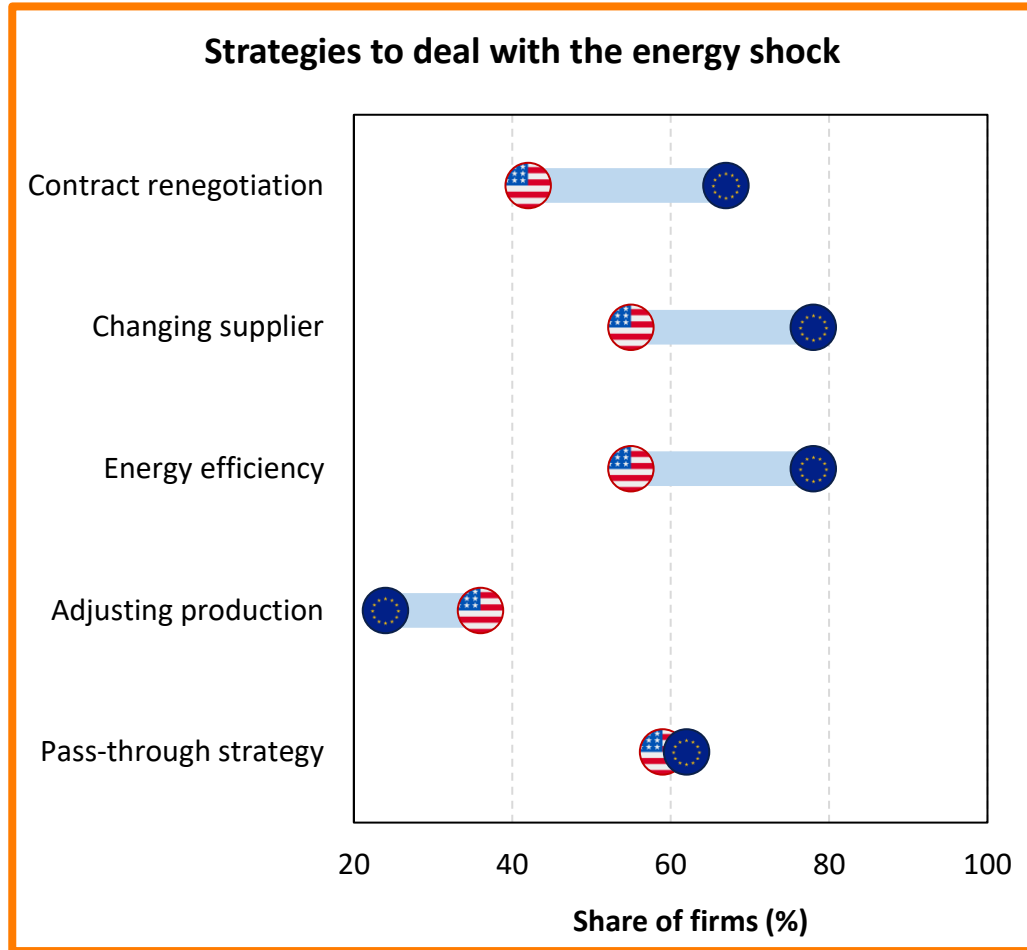


EU firms felt the reverberations of the energy shock strongly



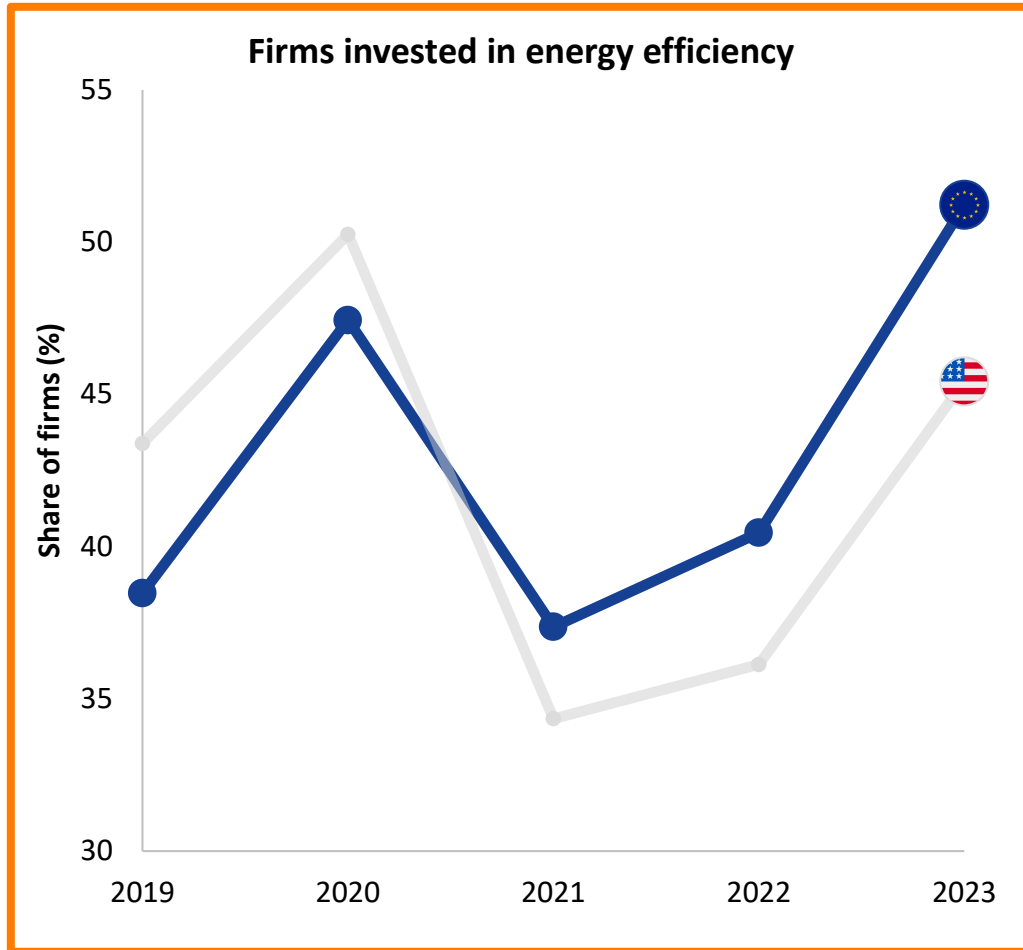
- **68%** of EU firms faced an increase by 25% or more in their energy bill since the beginning of 2022 vs. **30%** in the US.
- **+17 percentage points** was this difference between EU manufacturing and construction firms, suggesting asymmetric impacts.
- **14%** of EU firms reported that their energy spending at least doubled.
- **A common challenge** for everyone given the small gap in the share of firms citing energy spending increases above 25% across EU countries.

EU firms were more reactive to the energy shock than their US counterparts



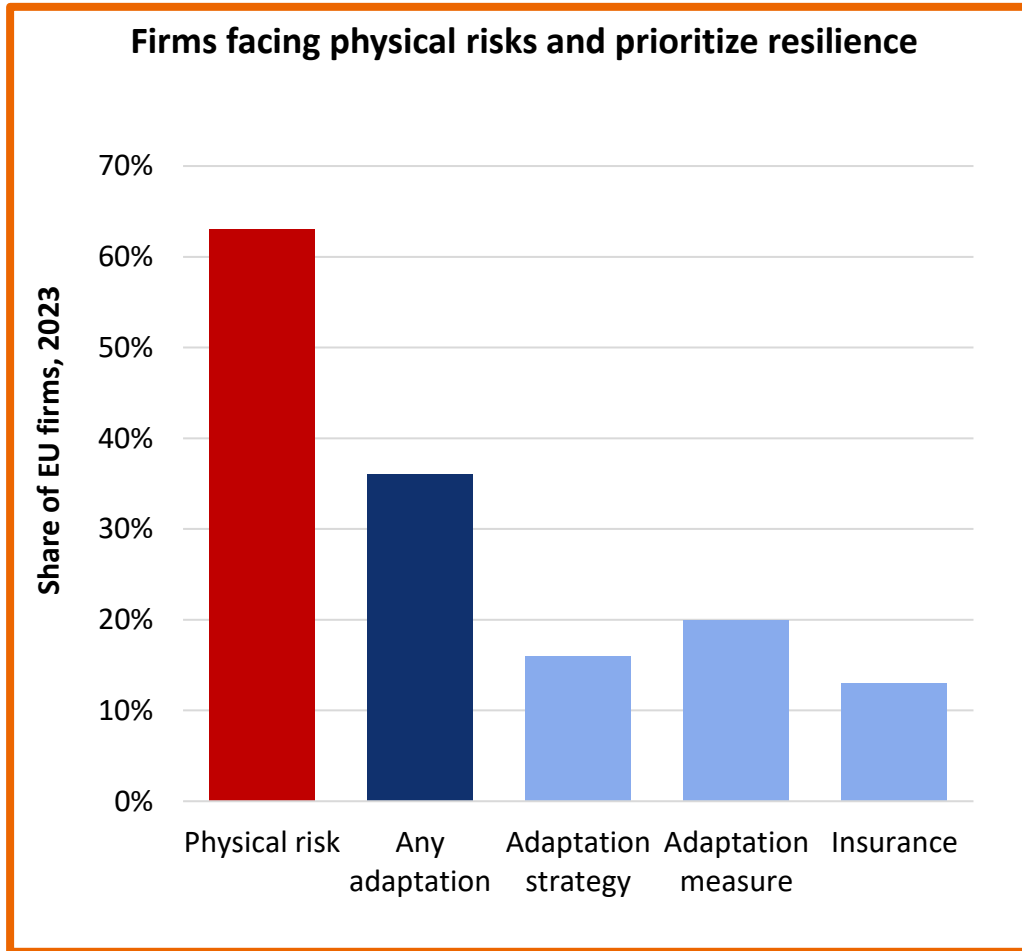
- **Most EU firms** were concerned about the energy shock (96%) and had strategies to deal with it (95%).
- **72%** of EU firms prioritised investment in energy savings vs. **55%** in the US.
- At least **+25 percentage points** the difference between EU vs. US firms that aimed at changing their supplier or their fuel mix.
- **EU** and **US firms** were equally likely to pass on the additional energy cost to their customers.

As energy costs rose energy efficiency investments became more attractive



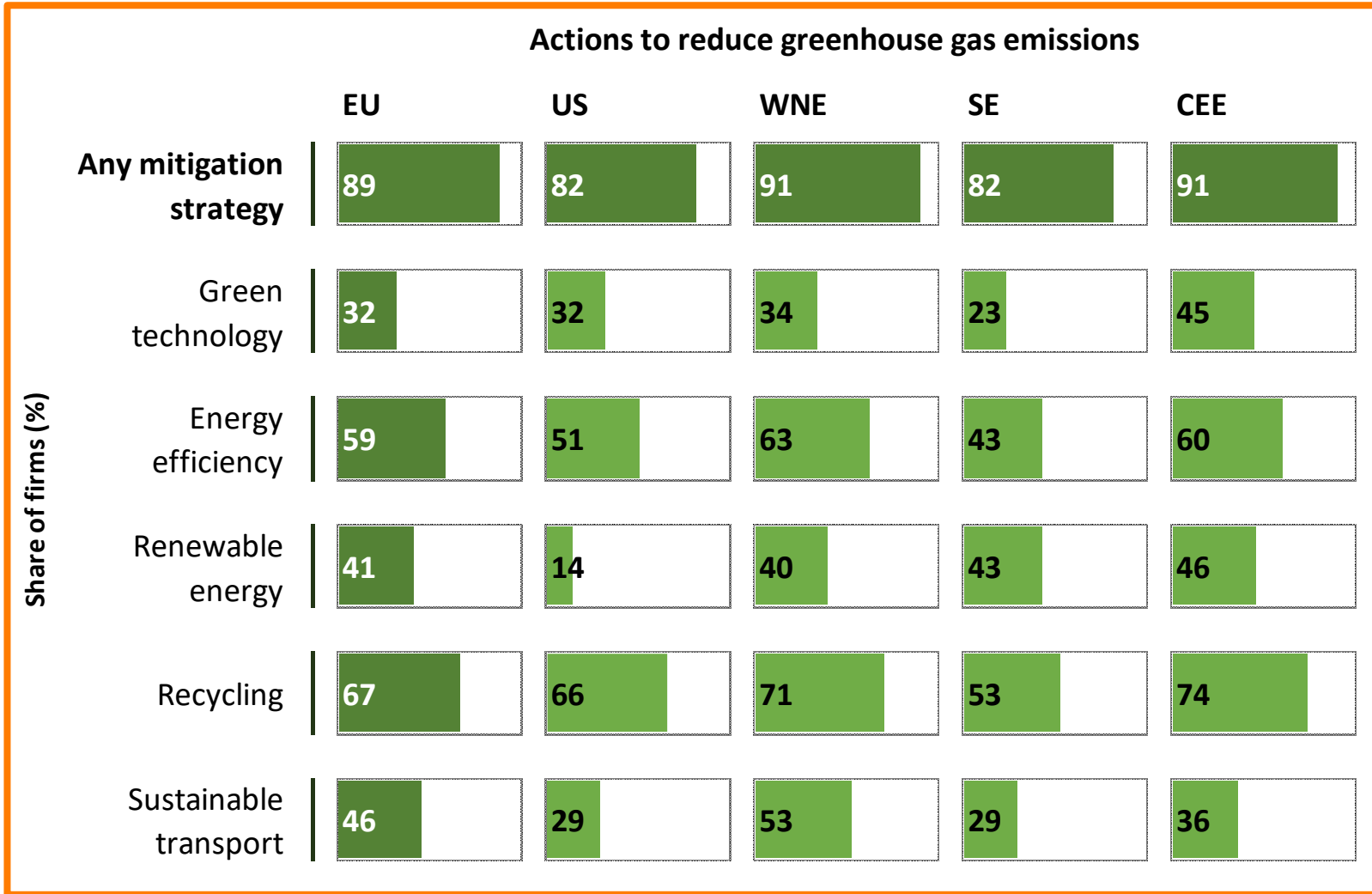
- **51%** of EU firms invested in energy efficiency in 2023.
- **+11 percentage points** increase from last year and well ahead of the US firms.
- **Manufacturing firms** led this trend in terms of share of firms investing in energy efficiency (60%), while **Construction** lags behind (30%).
- **12%** is the average share of investments that **EU firms** devoted to energy efficiency vs. **8%** in the **US**.
- **63%** of large firms invest in energy efficiency, while only **40%** of SMEs do so.

More firms acknowledge physical risks, but few invest in resilience



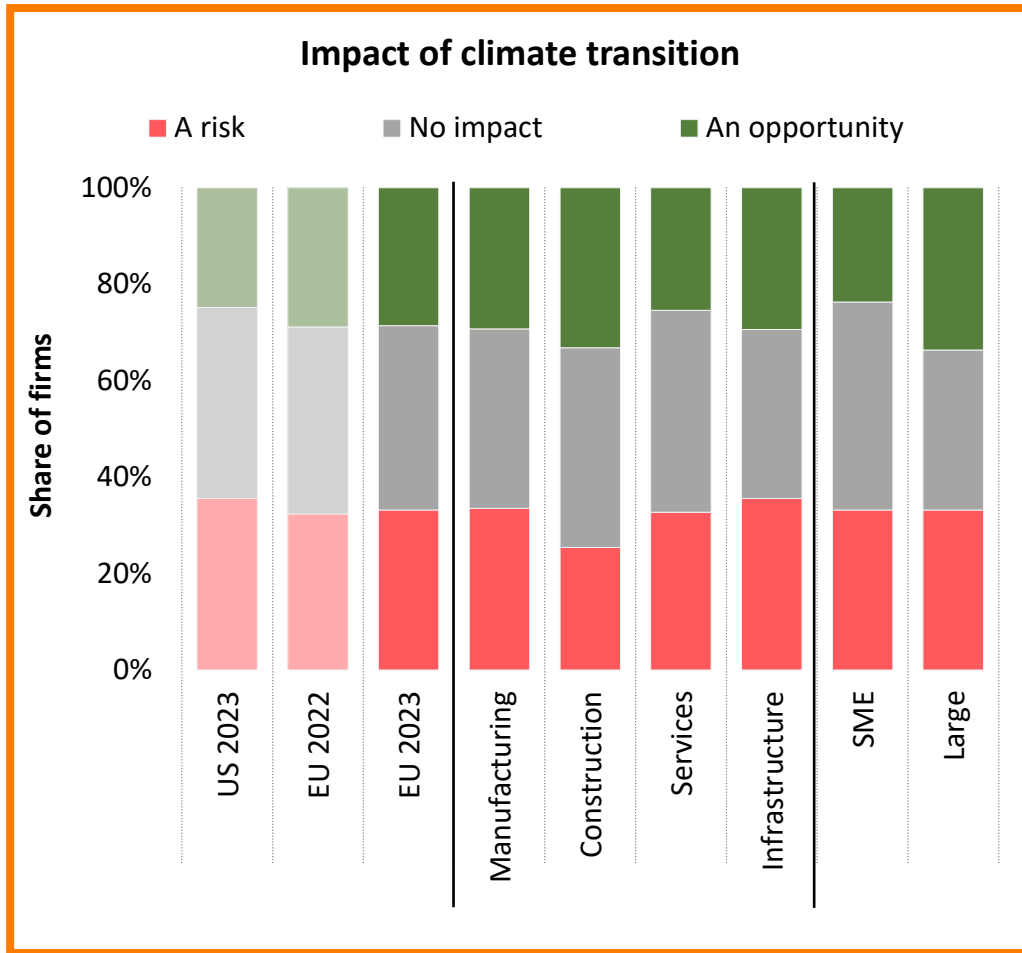
- **+27 percentage points** is the gap between the share of EU firms facing physical risks and the share of firms taking up at least one adaptation measure.
- A **similar but increasing** share in the **EU** and in the **US** (63% and 67%, respectively) impacted by extreme weather events since EIBIS 2022.
- **Only 17%** of EU firms already facing climate risks are insured.
- **Public funds** and **access to finance**, among other factors, play a vital role in catalysing investment in adaptation.

Firms focus more strongly on mitigation measures



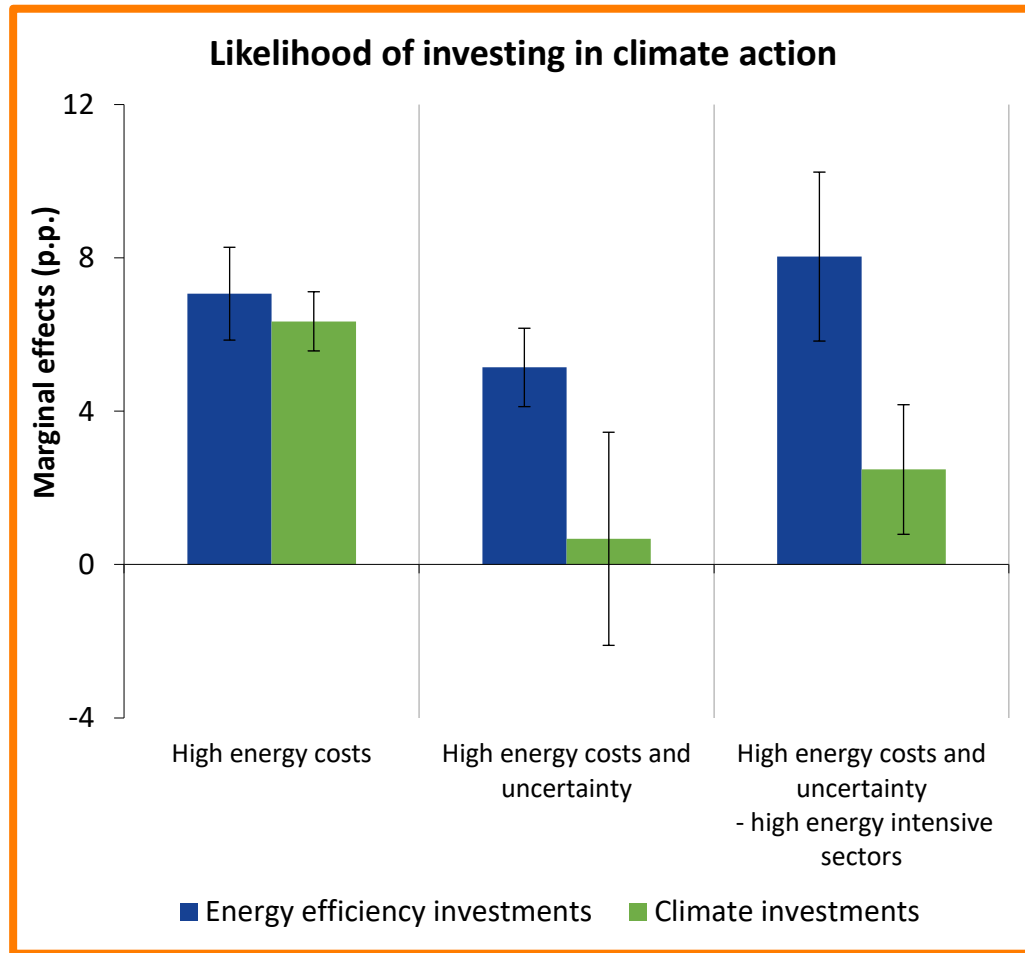
- **89%** of European firms adopted at least one mitigation measure.
- **Recycling** and **energy efficiency** were the measures most frequently implemented.
- **Stark differences** between the EU and the US in renewables and sustainable transport adoption

The climate transition sparks mixed feelings among firms



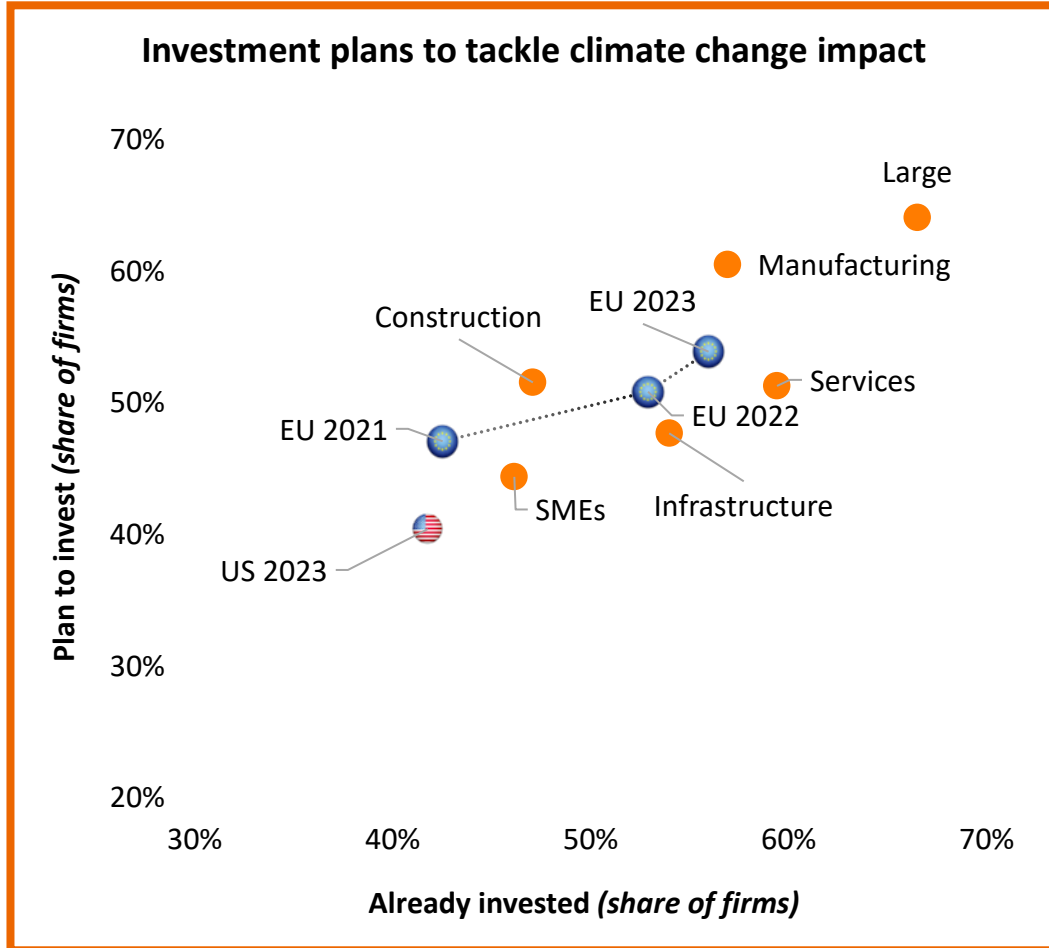
- **29%** of EU firms see the climate transition as an opportunity, while **33%** see it as a risk.
- **While** in the EU the views are broadly balanced, **US firms are the most pessimistic** (36% -negative vs. 25%-positive).
- **Energy-intensive firms** are more pessimistic about the transition than non-energy intensive firms.
- **40%** of EU firms set climate emissions targets vs. **10%** in the United States.

Uncertainty is diluting firms' climate action and potential



- **Higher energy costs** increase the willingness of firms to invest in both energy efficiency and climate action.
- **Uncertainty** reduces firms' overall likelihood to invest, favouring short-term solutions at lowering energy costs over long-term strategies that mitigate climate risks.
- **Firms in energy-intensive sectors** invest more in climate action regardless of uncertainty levels.

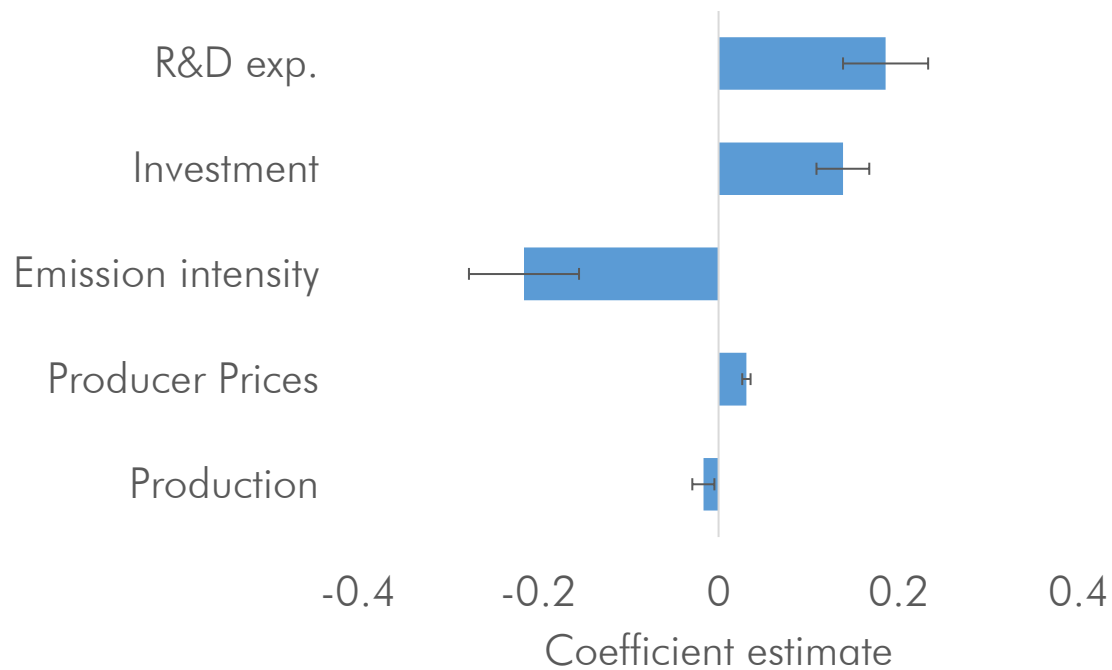
Firms are stepping up climate action despite challenges



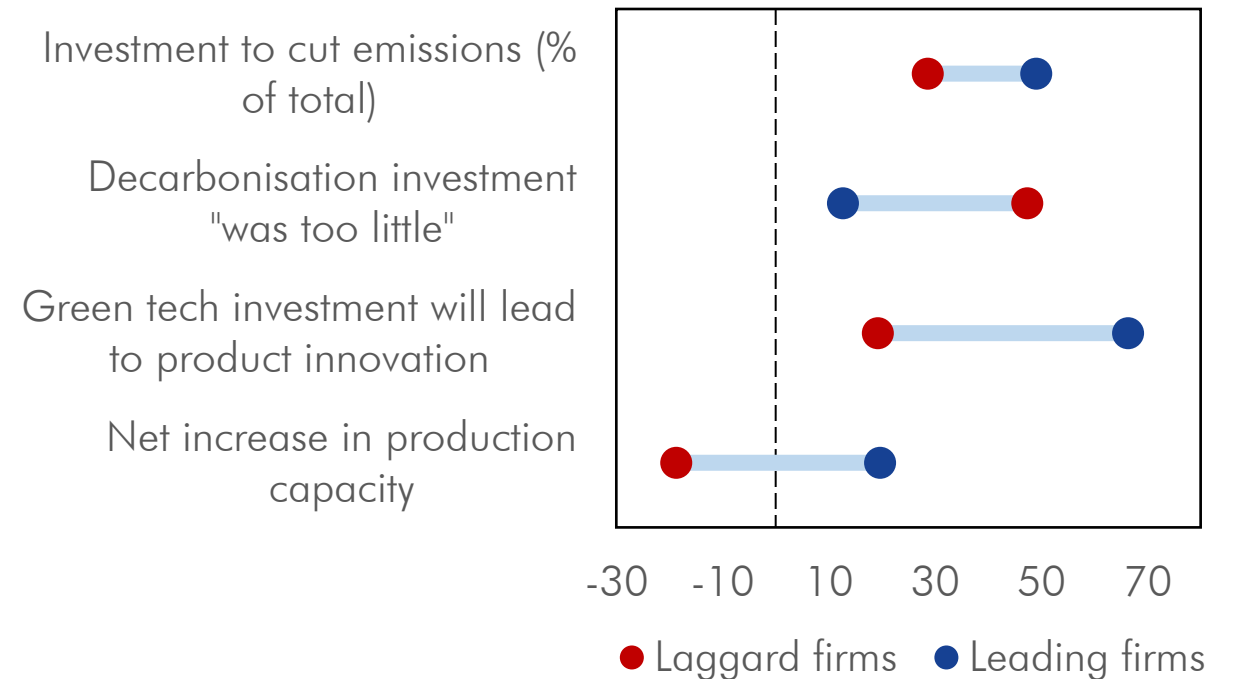
- **56%** of EU firms have invested in climate adaptation and carbon reduction efforts, up from **53% in 2022**.
- **54%** plan to invest in these areas within the next three years, an increase from **51% in 2022**.
- **EU firms** are **more engaged** in climate action than their US counterparts.
- **Large firms** and **energy intensive sectors** are leading this trend.

The tightening of the ETS is proving effective, but a decarbonization divide emerges

ETS tightening fosters decarbonization and transformation (Impact of ETS prices, regression coefficients)



Leaders invest more, innovate more and do not reduce their production capacity (% of firms)



90% of firms see price and regulation uncertainty as the main impediment to invest in green technologies

Concluding remarks....



Energy price dynamics appear to be a double-edged sword



EU firms face a twin energy and climate crises



EU firms opt for mitigation measures than adaptation ones



Growing uncertainty could prove to be a trap to investment decisions



Challenges in managing the pitfalls and seizing the green opportunities



Decarbonization divide calls for differentiated support policies

Thank you!

For any further information you can reach me via email at: F.kalantzis@eib.org



Annex

EIBIS background information

13,300 firms surveyed across EU27, plus the US and the UK (until 2021)

Firms of 5+ employees in Manufacturing, Services, Construction & Infrastructure sectors

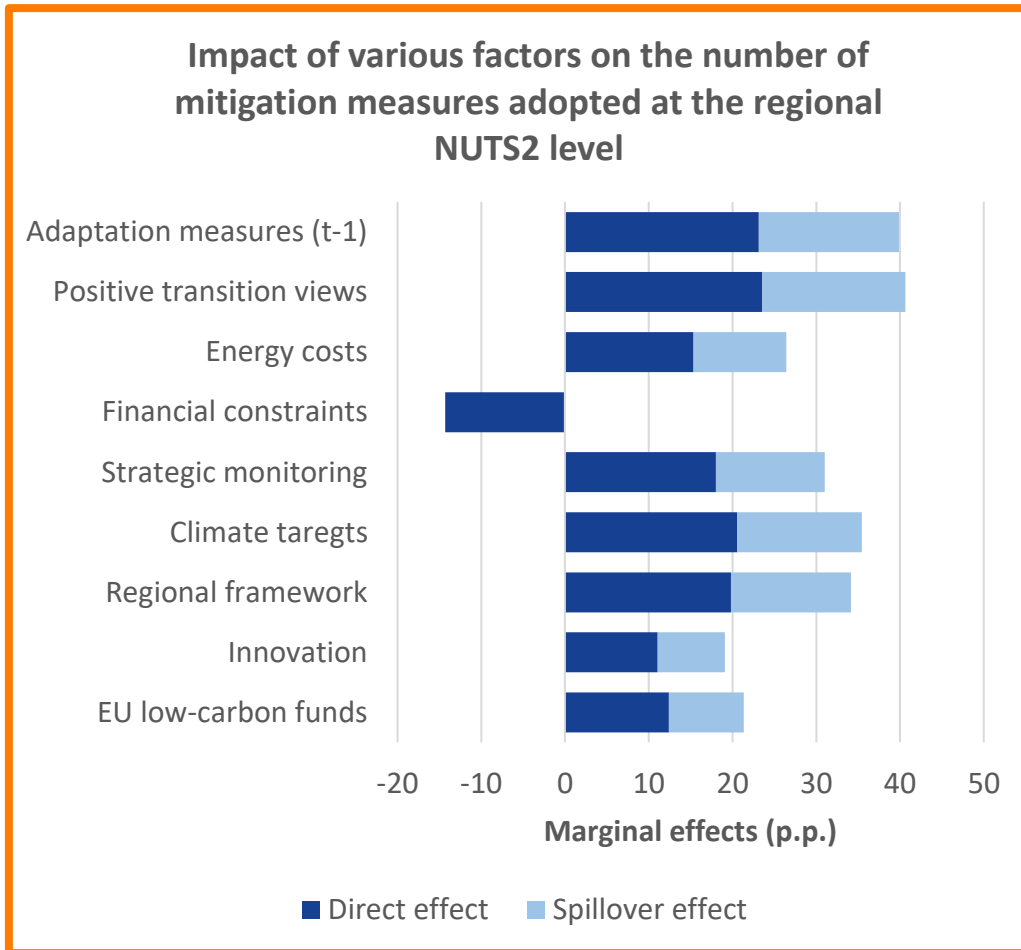
Representative of the economy (firms weighted by value-added)

Information on:

- Firm characteristics and performance
- Past investment activities and future focus
- Investment finance
- Investment needs and constraints

More information at EIBIS Data Portal and this link: [EIB Investment Survey \(EIBIS\)](#)

Awareness, institutional and economic factors matter for climate action



- **Adaptation** creates a **positive feedback loop** for mitigation (but not vice versa).
- Mitigation investment depend on **awareness of transition risks, energy costs burden** and **monitoring systems** implemented by firms both locally and in adjacent regions.
- Local impacts of **financial constraints**, no spillover effects on mitigation efforts.
- **Local economic** and **institutional conditions** and **EU funds** lift mitigation strategies across regions.