

The UNECE logo, consisting of a blue globe icon and the text "UNECE" in blue.

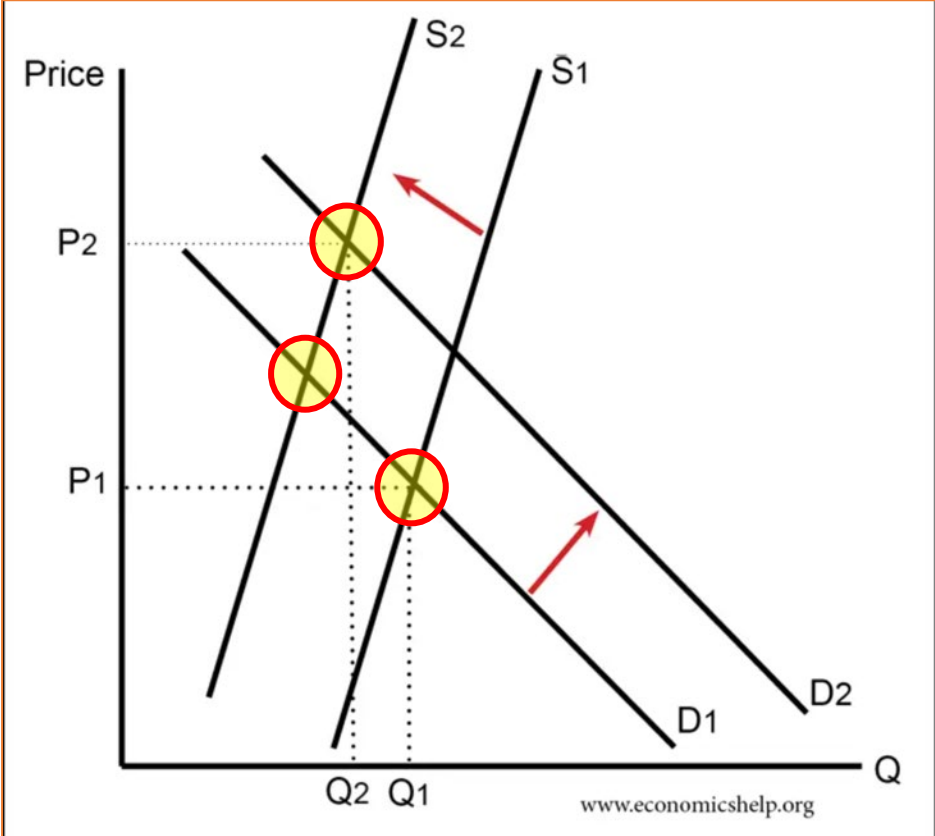
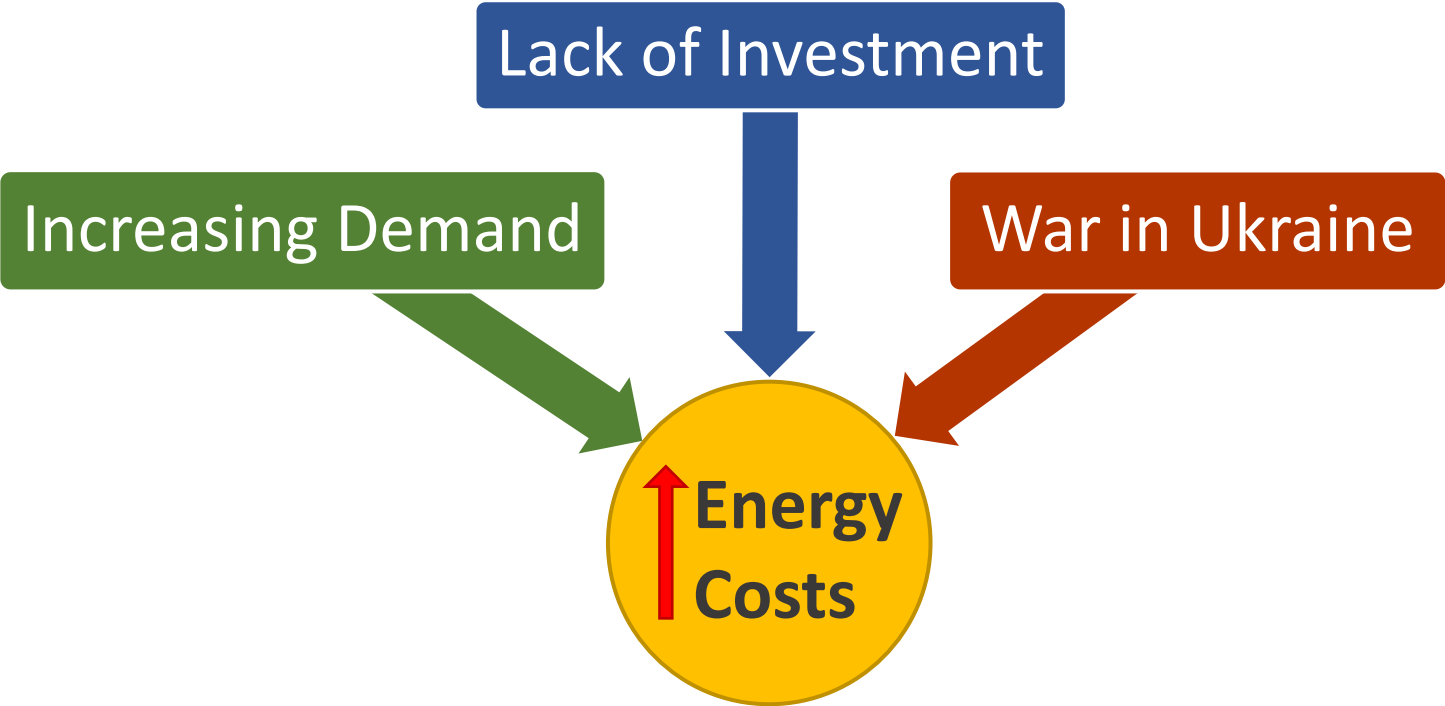
UNECE

Energy prices and Land Management

Present and Future Effects

C. Kat Grimsley, PhD

Present: Underlying Causes



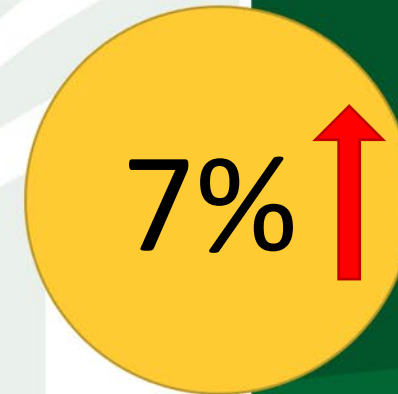
Present: Scope of the Issue



The impact of the energy price surge on households' budgets has been significant, though uneven both across and within countries.

...the recent surge in international fossil fuel prices will raise European households' cost of living in 2022 by close to 7 percent.

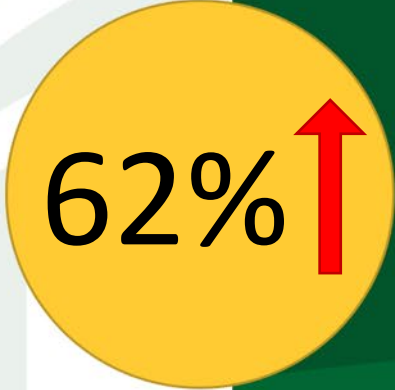
– IMF Working Paper, July 2022



Present: Scope of the Issue



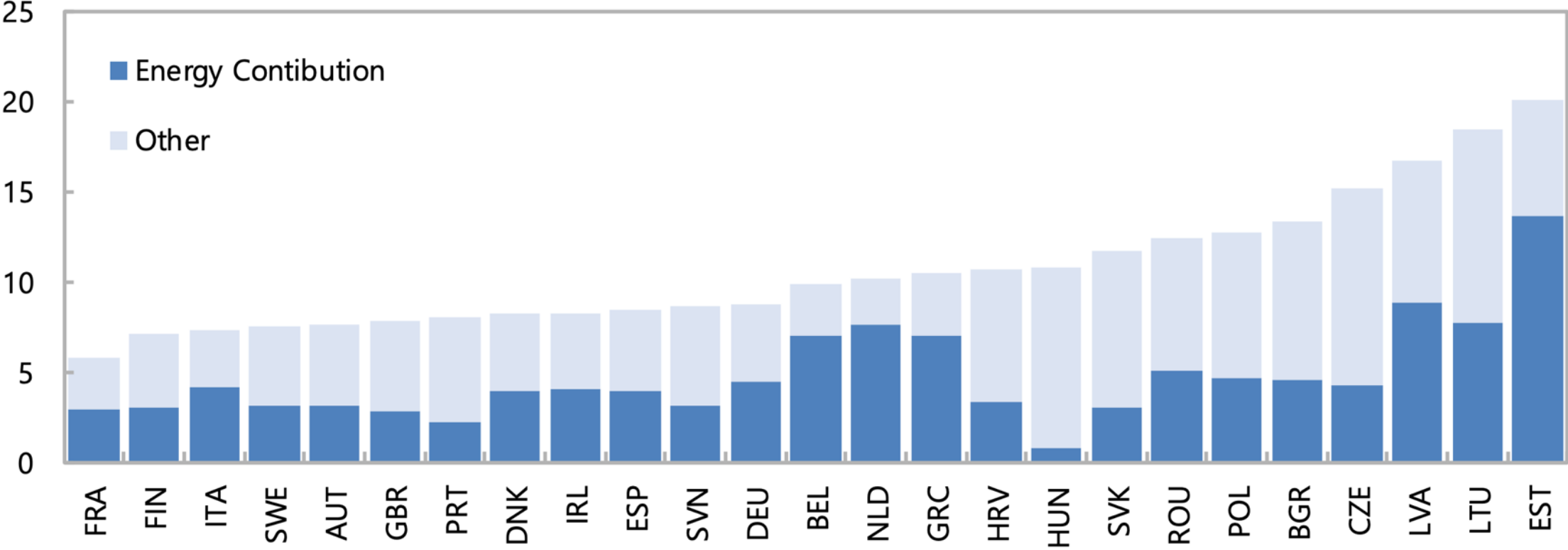
German households pay more for electricity than any other country in the EU and 4.2 million German households will see their gas bills rise by an average of 62% in 2022.



– BBC

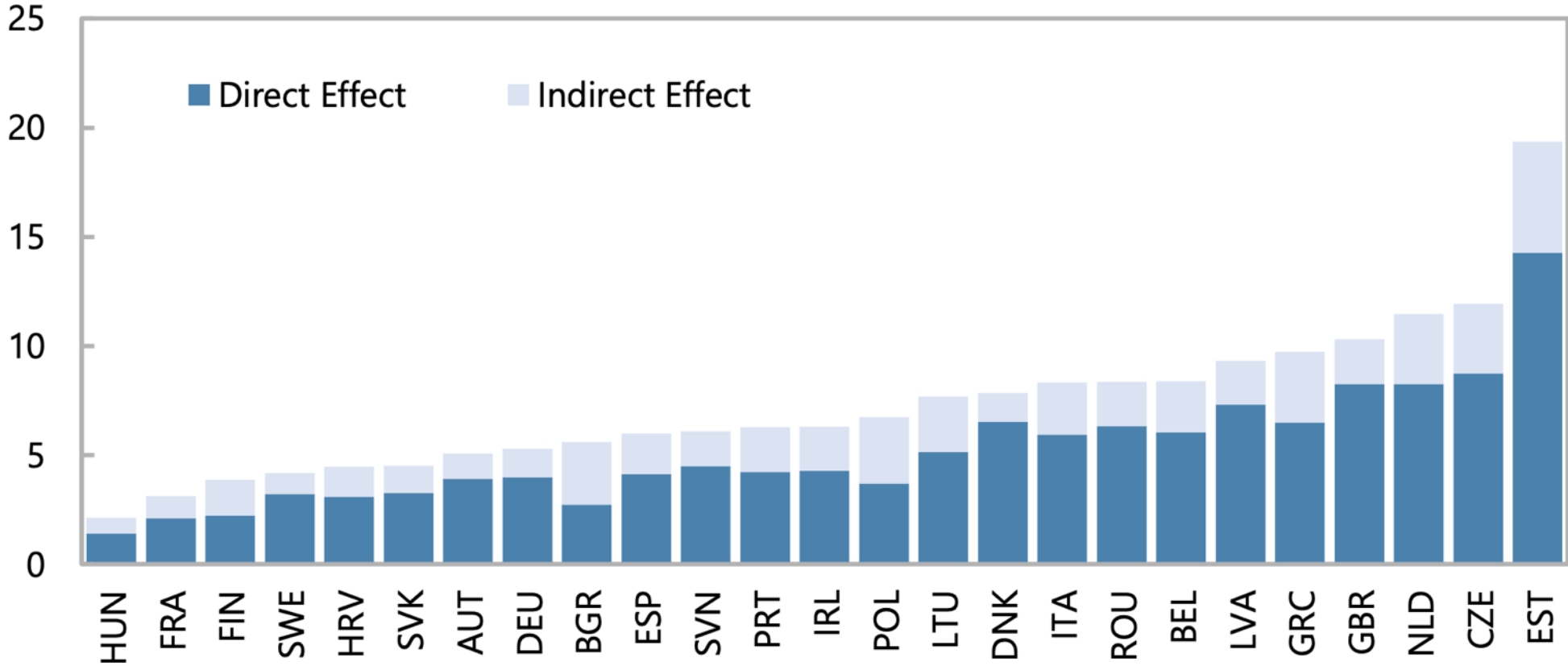
Present: Higher Energy Prices

Contribution of Energy Prices to Consumer Price Inflation, May 2022 (YOY)



Present: Higher Energy Prices

Direct and Indirect Burdens on Households - % HH spending

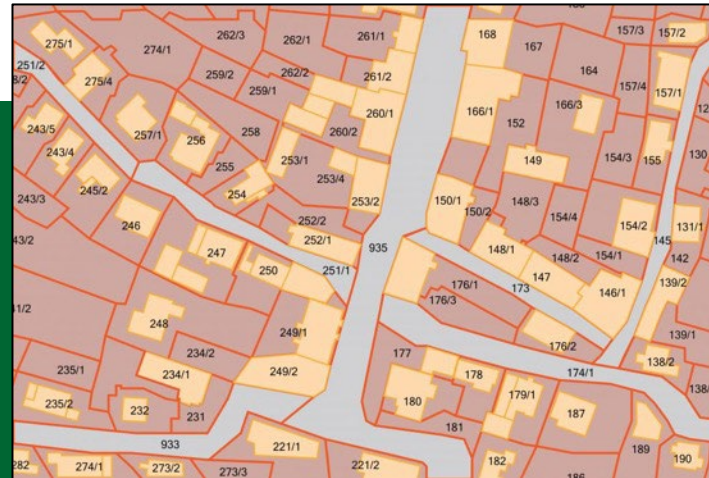


Future: Interrelated Stakeholders



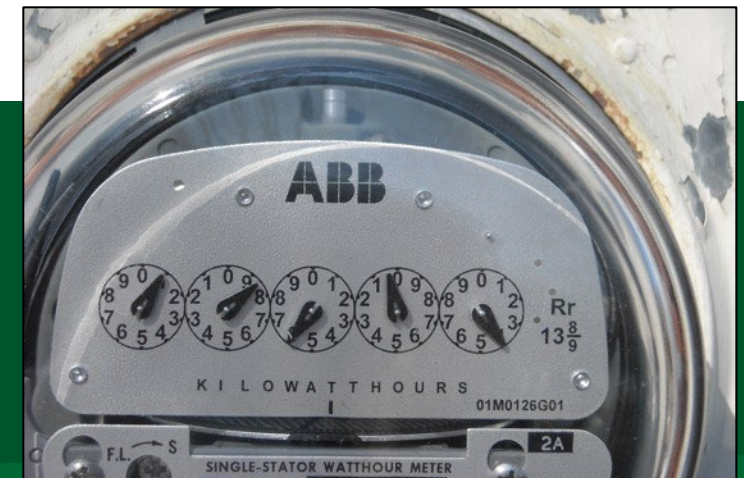
Energy Industry

- Footprint expansion
- Increase in supply



Land Management

- Strategy
- Approvals
- Incentives

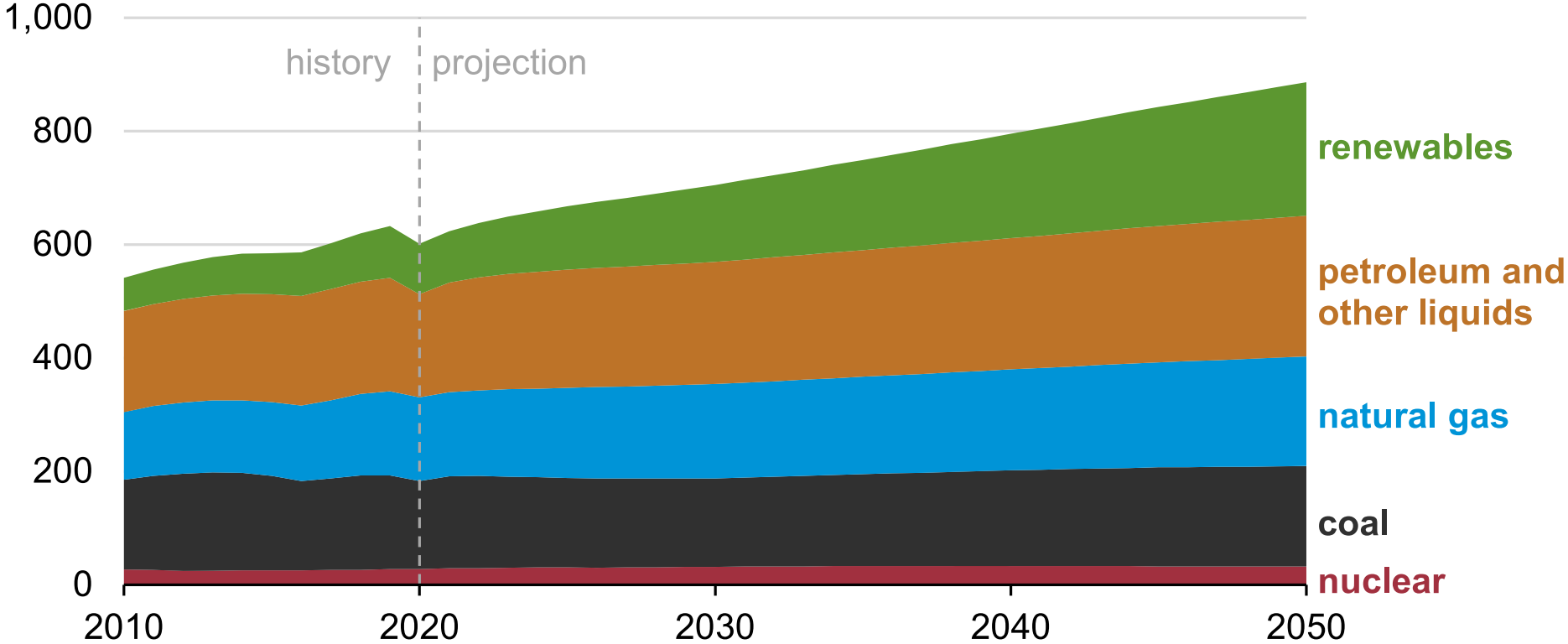


Consumers

- Increasing demand
- Cost concerns

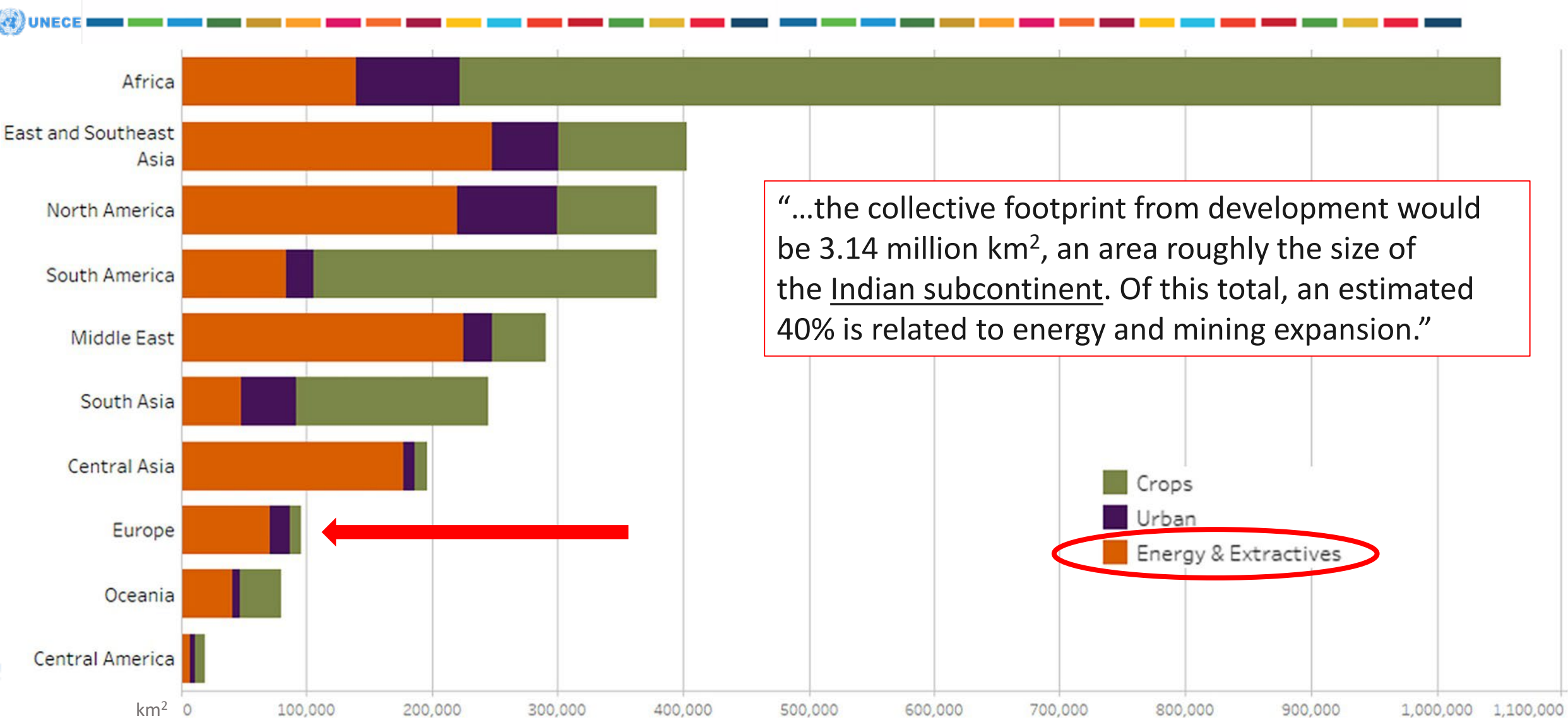
Projected Energy Consumption by 2050

Global primary energy consumption by energy source (2010–2050)
quadrillion British thermal units



50% ↑

Projected Land Use Conversions by 2050



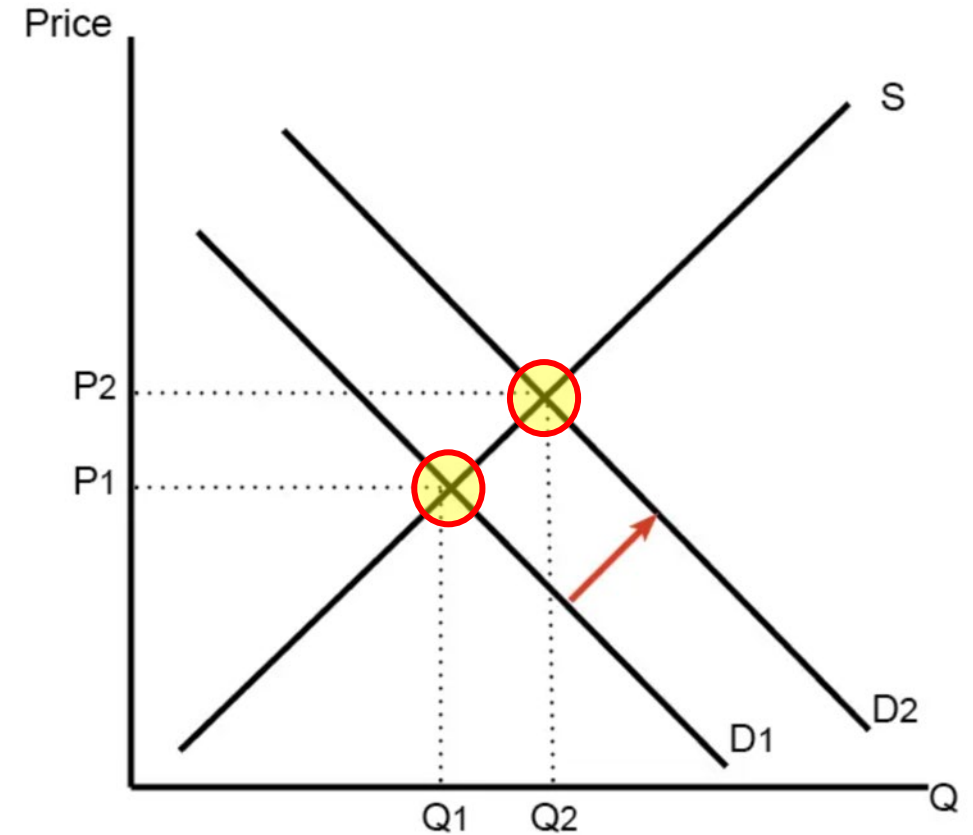
“...the collective footprint from development would be 3.14 million km², an area roughly the size of the Indian subcontinent. Of this total, an estimated 40% is related to energy and mining expansion.”

■ Crops
■ Urban
■ Energy & Extractives

5 Implications for Policy & Approvals

Future Land Management Decisions must:

- 1) Take realistic account of energy needs and usage trends
- 2) Balance greenfield loss with energy needs
- 3) Account for the energy cost implications of policies
- 4) Carefully consider unintended consequences of incentives and policies
- 5) Support investments and improvements to the grid and other critical infrastructure



Sources

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Questions?

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