United Nations Trade and Development (UNCTAD)

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The energy transition and its macroeconomic effects

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The views expressed are those of the author and do not necessarily reflect the views of UNCTAD.



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Adaptation to the energy transition in fossil fuel-dependent developing countries

Global Commodities Forum, 9 December 2024

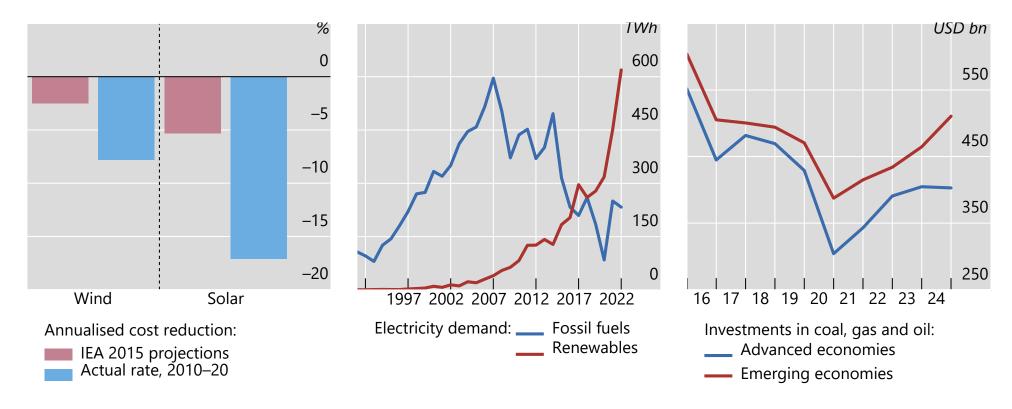
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Overview

- 1. The energy transition is accelerating
- 2. Fossil fuel exporters
- 3. Macroeconomic implications for fossil fuel exporters
- 4. The effect of the 2014 fall in oil prices in OPEC+

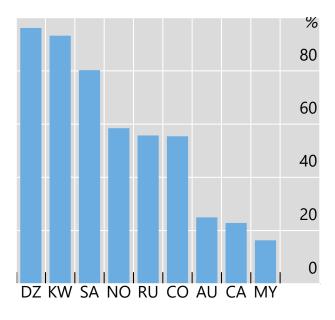


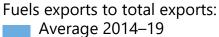
1. The energy transition is accelerating

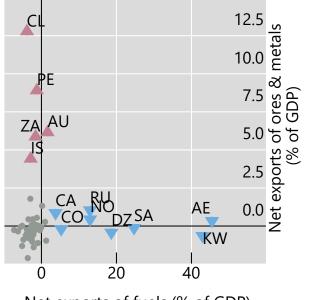


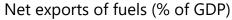
- Costs of renewable energy are plummeting while adoption accelerates
- Renewable energy now more economical than fossil energy
- Fossil fuel investment is declining, although still significant in EMEs

2. Fossil fuel exporters

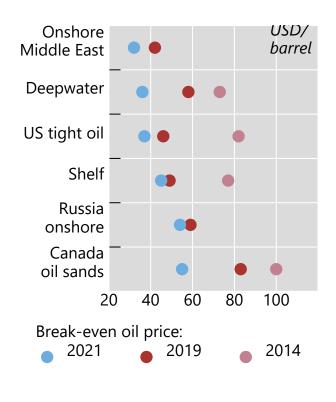








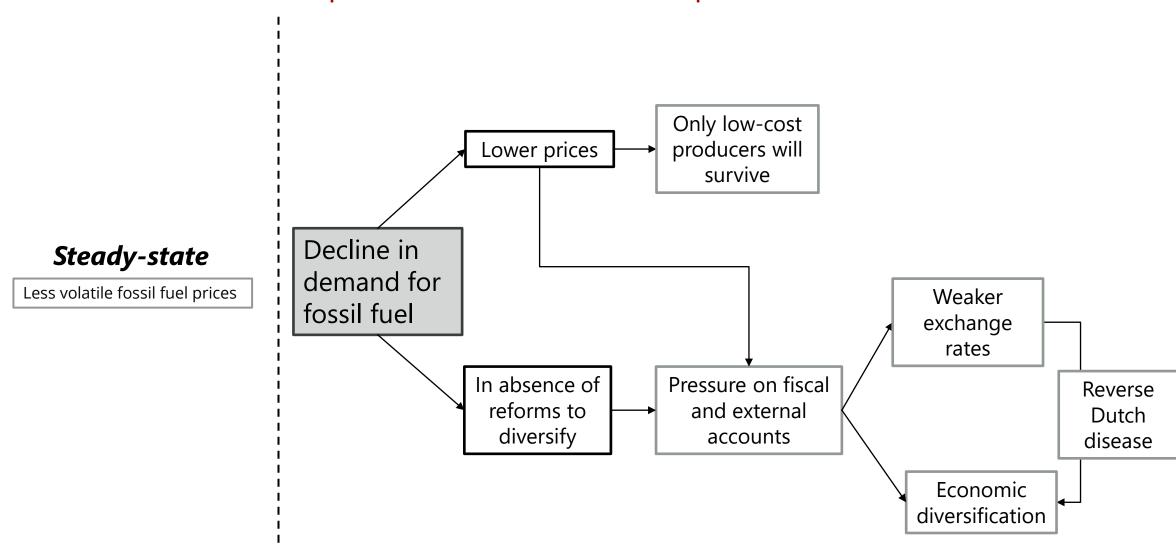
- ▲ Net exports of ores & metals > 2%
- Net exports of fuels > 2%
- Others



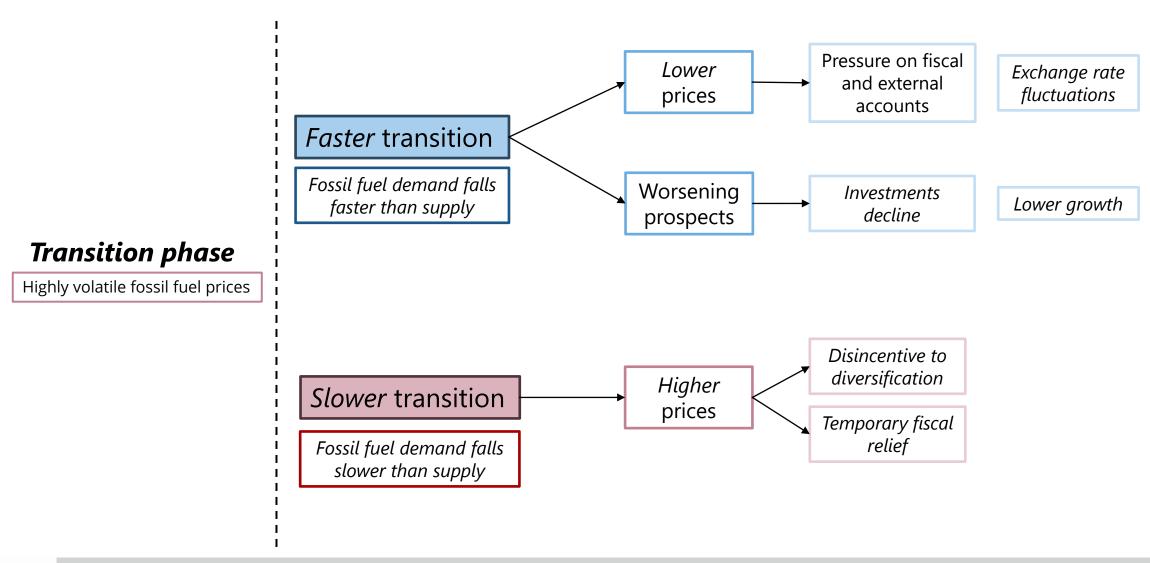
- A small number of countries, mostly in the Middle East and North Africa, rely heavily on fuel exports
- These economies do not have significant metal production that is needed for the transition
- But they tend to be the lowest-cost producers of oil



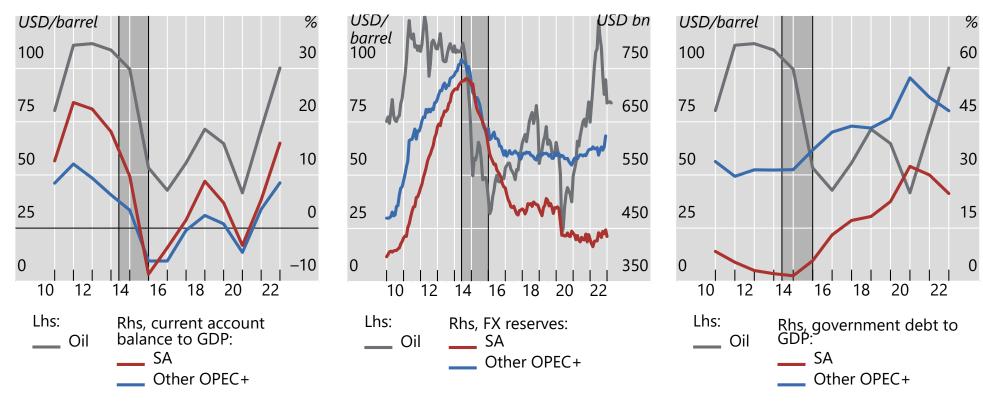
3. Macroeconomic implications for fossil fuel exporters



3. Macroeconomic implications for fossil fuel exporters



4. The effect of the 2014 fall in oil prices in OPEC+



Grey shaded area indicates from June 2014 to December 2015.

- Large current account deficits
- Rapid declines in FX reserves
- Worsening debt levels



Conclusions

- Prices for renewables are falling sharply:
 - ⇒ The energy transition could happen faster than we thought
 - ⇒ This will have massive economic implications for fossil fuel producers, consumers and the suppliers of critical minerals
 - ⇒ Only lowers cost producers may remain in business, but receive far lower revenues
- What can fossil fuel producers do?
 - ⇒ Find alternative sources of growth, such as:
 - ⇒ Renewable energy
 - ⇒ Service exports
- Challenges should not cloud long-term benefits:
 - ⇒ Less global warming
 - ⇒ Cheaper, locally produced energy
 - ⇒ More stable energy prices (at business cycle frequency)





Thank you for your attention! The energy transition and its macroeconomic effects

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