

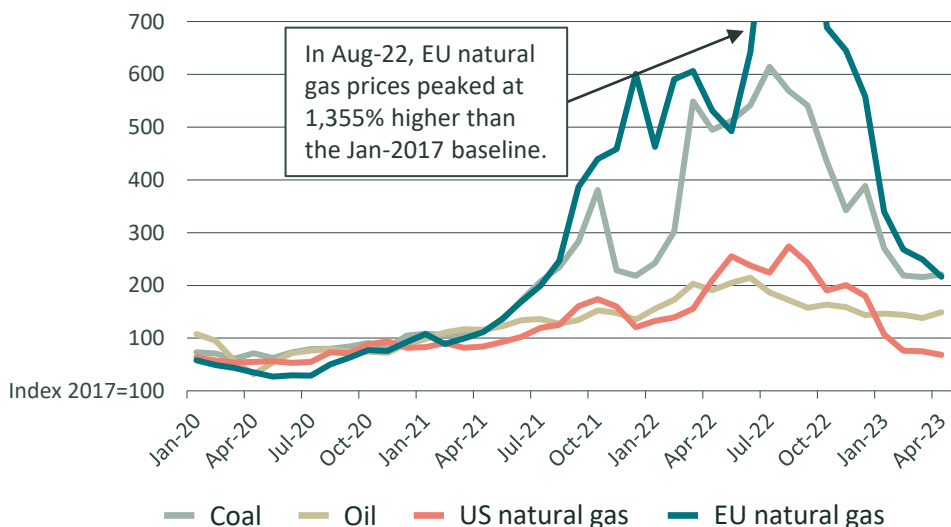


Global energy prices have fallen from record high levels in mid-2022. This has led to reduced prices for agricultural inputs, including fertiliser and diesel. Despite recent falls, costs for producers are expected to remain relatively high in 2023.

## Energy prices have fallen from their record highs

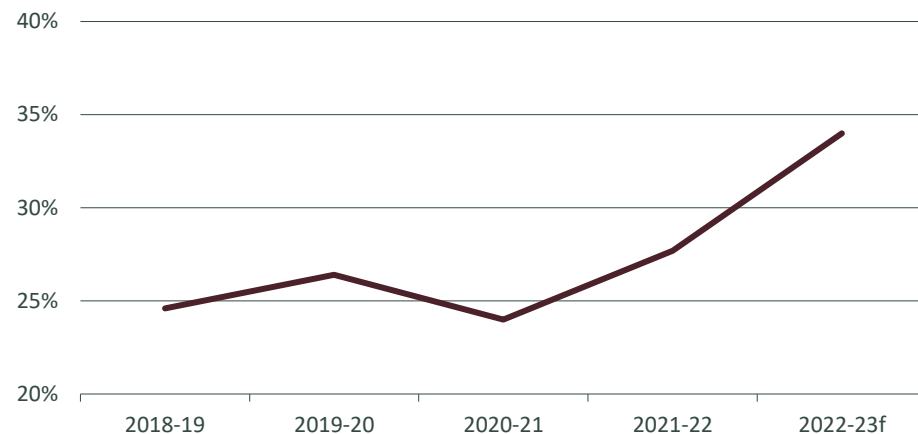
- > Unexpectedly high-demand after the initial phase of the COVID-19 and Russia's invasion of Ukraine led to surging energy prices (Figure 1).
- > Falling energy prices since mid-2022 have been caused by a range of factors, including:
  - > supply chains recovering from COVID-19 related disruptions
  - > the re-organisation of trade following Russia's invasion of Ukraine
  - > reduced global economic activity
  - > a warm European winter.

**Figure 1: Spot energy price index, January 2020 to April 2023**



Source: DAFF and New York Mercantile Exchange.

**Figure 2: Fertiliser and fuel costs as a share of total farm cash costs for Australian cropping farms (average)**



Source: ABARES 2023. f = ABARES forecast

## How do energy prices affect agricultural producers?

- > Key production inputs such as fertiliser, agricultural chemicals and diesel are produced using natural gas and oil.
- > In 2022, fertiliser and fuel accounted for a record 28% of total farm cash costs for cropping business. This is expected to grow to 34% in 2023 (Figure 2).
- > Energy prices also affect the cost of freight and processing, which also influences the total cost of food production.
- > Rising input prices contributed to spikes in global food prices in 2021 and 2022 and are evident in higher grocery prices in Australia.

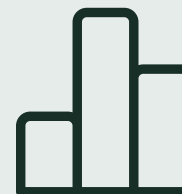




Average fertiliser import prices increased by 153% between February 2020 and July 2022.

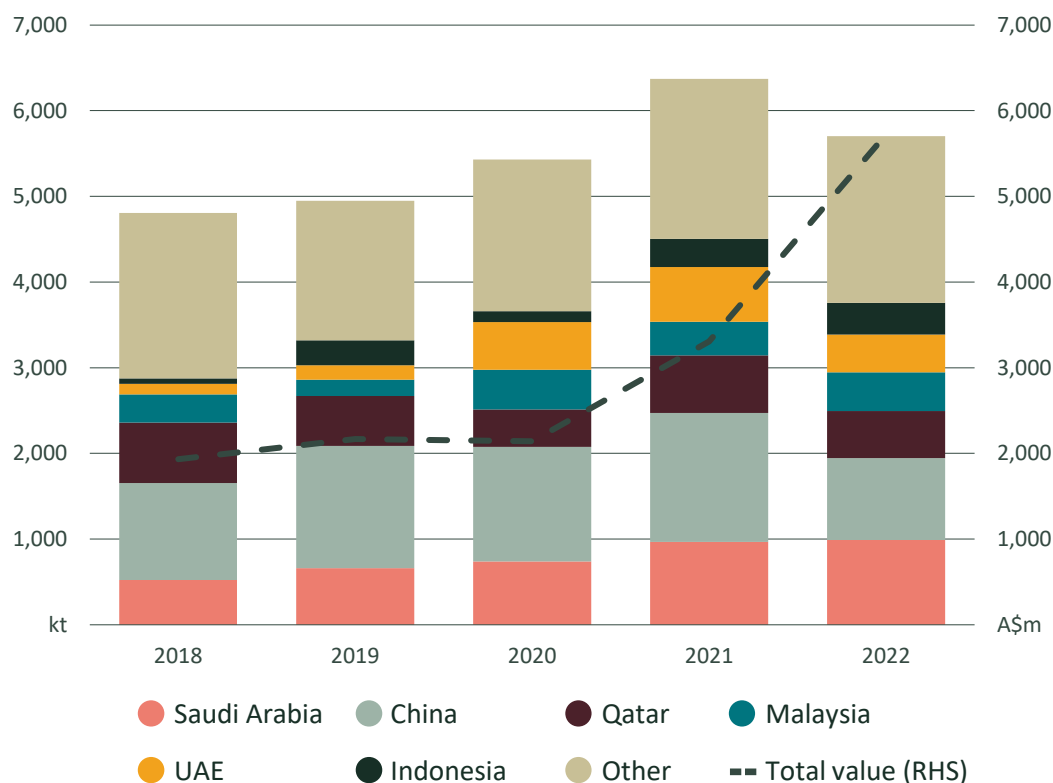


Supply disruptions and export restrictions have re-organised fertiliser import sources.



Fertiliser prices have fallen, but remain relatively high.

**Figure 3: Australian fertiliser import volumes by exporter (LHS) and total import value (RHS)**



## How have high prices and disrupted supplies affected Australian fertiliser imports?

- > Between February 2020 and July 2022, the average import price of Australian fertiliser increased by 153%.
- > Disrupted supply chains and export restrictions altered Australia's usual sources of fertiliser imports.
- > The volume of imports from major suppliers, including China (-36%), Qatar (-18%) and the United Arab Emirates (-31%), fell in 2022.
- > Imports from Bahrain (+195%), Morocco (+96%) and the USA (+31%) increased.
- > High prices caused the total value of fertiliser imports to rise by 73%, despite an 11% fall in fertiliser import volumes.

## Fertiliser price outlook

- > International price indicators have been falling since mid-2022. Australian prices have also fallen, but at a slightly slower rate.
- > Futures markets indicate that fertiliser prices may settle at approximately 30% higher than the January 2020 price.