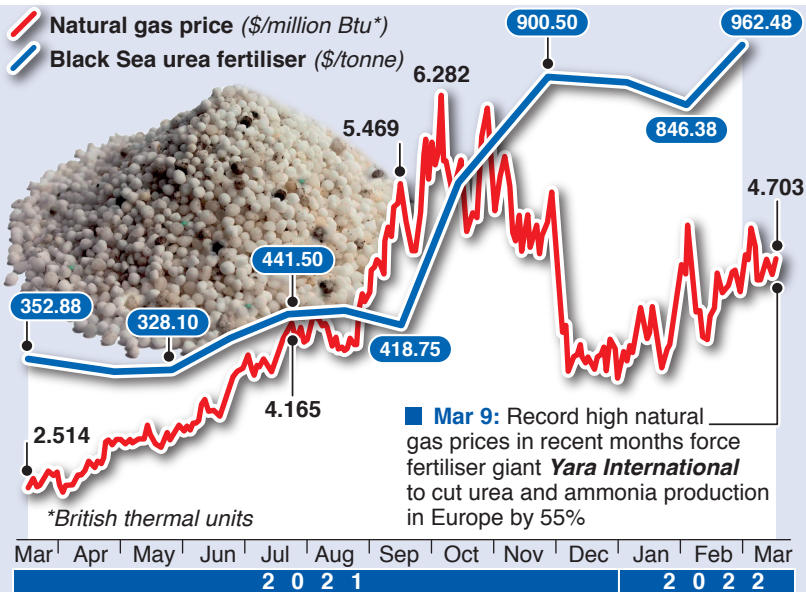


Fertiliser threat to food security

Massive trade sanctions on Russia, highly volatile natural gas prices, and fertiliser exports from Russia and Ukraine grinding to a halt could lead to skyrocketing global food prices



■ **Haber-Bosch process:** Converts nitrogen and hydrogen into ammonia – crucial step in creating fertilisers. Uses between 1% and 2% of all energy generated globally

■ **Breakeven ratio:** Around six for cereal crops – 6kg of grain needed to pay for 1kg of nitrogen fertiliser. Rise in price has pushed ratio to 10

■ **42%:** Proportion of world's population fed by synthetic nitrogen fertiliser

