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Europe heads into winter two years after the energy crisis



The 2022 energy crisis was a wakeup call for Europe, revealing Europe's energy vulnerability. A lot has been done since, from reducing dependence on Russian gas to cutting overall gas consumption by 18%. Households have made great effort to change their habits, but much is still to be done to ensure long-term stability in energy supply.

Two years ago, European households headed into the winter not knowing if they would be able to keep their homes warm throughout the cold months. In 2021, Russian natural gas accounted for 44% of the EU's natural gas imports; its invasion of Ukraine forced the EU to rapidly find new ways to keep gas flowing by diversifying supply, and to quickly reduce demand.

Energy inflation soared to an all-time high in March 2022, with energy prices up by around 44% on the previous year. This put immense pressure on households and businesses across Europe as they struggled to keep the lights on. This situation also highlighted the inherent risks of Europe's dependence on other countries, as recently lamented by former Italian prime minister

and ECB chief Mario Draghi in his report "The Future of European Competitiveness".

Liquefied natural gas (LNG) emerged as a new player on the European gas markets

Until the 2022 energy crisis, European countries had relied mainly on piped gas for their gas consumption, but with the need to diversify gas supplies, seaborne Liquefied Natural Gas (LNG) became key to ensuring Europe's energy security, replacing a large portion of pipeline imports from Russia. In 2022, the US became Europe's top LNG supplier, while Norway replaced Russia as the top overall gas supplier.

At the peak of the energy crisis, over 41 million Europeans were not able to warm their homes adequately, according to the European Parliament. The EU stepped in to help people and businesses unable to pay their energy bills, but it also had to tackle one of the drivers of rising prices: demand. EU countries and citizens were urged to reduce gas consumption, which, according to the European Council, fell by 18% in the EU between August 2022 and May 2024, compared to the previous five years.

Changes in behavior helped reduce demand

By 2024, households had still not returned to their pre-crisis consumption levels, and while their willingness to change their habits—whether voluntarily or due to financial pressure—was crucial in reducing demand, other factors also played a role. The relatively mild winter of 2022 led to a decrease in energy used for heating buildings compared to the previous year. Additionally, the installation of 3 million heat pumps in 2022 contributed to lower gas demand. Authorities hope that changes in consumption habits and a focus on energy efficiency in buildings will sustain the downward trend in gas consumption in the coming years.

When gas prices soared, energy-intensive European industries had to scale back their operations. Although prices have returned to more acceptable levels, industrial demand has not yet regained its pre-crisis levels. Illustrative of this, output in industries, such as chemicals and fabricated metal products, has declined.

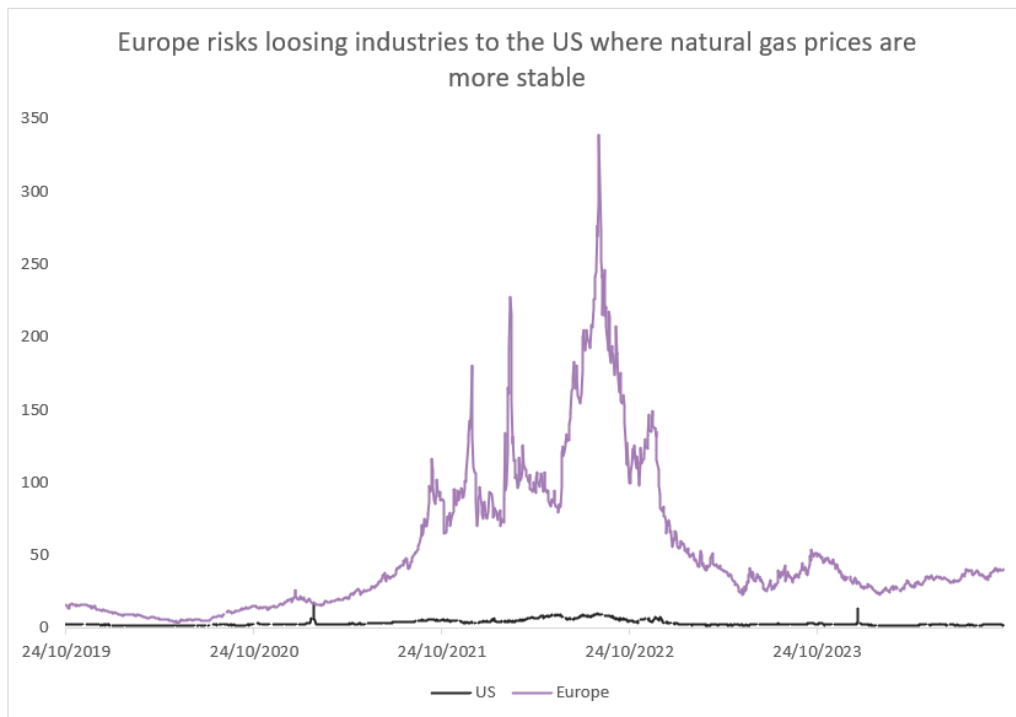
Energy consumption is still lower than before the crisis, not just because of changing habits, but also due to lower economic activity. A recovery in industrial activity could therefore alter the recent trend in energy demand.

Changes in the European energy market

This year, the EU's 90% gas storage target for natural gas was reached ten weeks ahead of the November deadline, a threshold that was put in place to ensure an adequate supply of energy and to protect citizens from high energy prices.

Overall Russian gas imports by the EU fell to 16% in August 2024. The commission of twelve new LNG terminals between 2022 and 2024 certainly contributed to this drop. Although overall

gas demand has cooled substantially, and LNG demand in Europe falling 20% in the first half of the year, the LNG infrastructure investment is key in protecting Europe from future supply shocks. This will also be crucial to prevent energy-intensive firms relocating production elsewhere because of unstable supply. The BDI business association has said that around 20% of industrial value creation in Germany is under threat, listing high energy prices as one of the key reasons.



Source: Bloomberg, BIL

The EU has also shifted into a new gear when it comes to the use of renewable energy sources, with more electricity generated from wind and solar power than from fossil fuels than ever before. According to the European Commission, EU electricity was generated from 46% renewables, 29% fossil fuels, and 25% nuclear at the start of this year.

The move away from gas increased the demand for electricity to heat European homes. Heat pumps were highlighted as a key instrument to reduce the EU's dependence on Russian gas which gave the heat pump market a significant boost in 2022. However, this trend has not retained its strength with gas prices falling in 2023 and cost of living rising, making the switch to electricity driven heat pumps less financially attractive.

Although electricity prices have been on a downward trend in 2024, southern Europe, in particular, are still experiencing volatility. A Greek government official stated that it feels "like there is a mini energy crisis that no one is talking about", in reference to Russian attacks on Ukrainian infrastructure. As supply dynamics shift in Europe, the EU's need for capacity to share supply across borders has come into focus.

Going forward

The 2022 energy crisis was a wakeup call for Europe. A lot of progress has been made to replace Russian gas flows, stabilise volatile energy prices and increase the use of renewable energy sources. The transition to renewables and sharing across internal EU borders will be vital for the security of Europe's energy supply in the coming years. Continued efforts to improve the energy efficiency of European buildings will also be crucial to keep gas demand low in the long term. Taking a longer-term view, the advent of AI and smart homes that regulate their own heating could form part of the solution one day. However, AI is also expected to increase energy use significantly. The International Energy Agency expects that global electricity consumption from data centers, AI and cryptocurrency could double in 2026 compared to 2022, increasing electricity demand by as much as another Germany.

Although vital progress has been made, there is still a long way to go and while energy prices have dropped considerably, EU companies still face electricity and natural gas prices that are well above those in the US. In his report, Mario Draghi highlights the potential for Europe “to take the lead in new clean technologies and circularity solutions, and to shift power generation towards secure, low-cost clean energy sources in which the EU has generous natural endowments.” This might represent short-term pain for long-term gain, but it is yet to be seen whether Europe will fully embrace the proposals.

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