

Excerpt for participants:

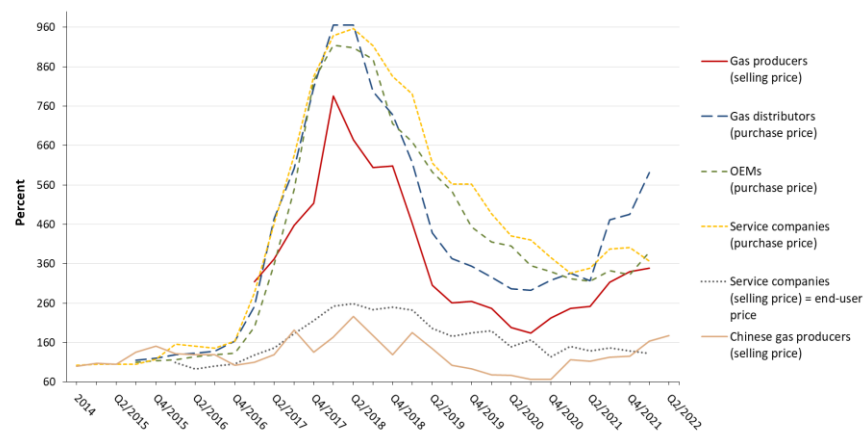
Monitoring of refrigerant prices against the background of Regulation (EU) No 517/2014

Q2/2022

In Q2/2022, 61 companies from 11 EU Member States (main respondents from Germany, Italy, France and Poland) and all supply chain levels (3 gas producers, 12 gas distributors, 27 OEMs, 14 respondents from the service sector, 4 end-users and 1 equipment renting company) reported purchase and/or selling prices for HFCs and lower GWP alternatives either in absolute terms (€/kg) or as price index (with 2014 as baseline year). Please note that companies do not report prices for all refrigerants but only for the ones relevant to them.

Along the supply chain

Figure 1 shows the **price developments for R410A (GWP 2088)** at all levels of the supply chain, with the most significant increase on gas distributor-level (+22%). Data presented include prices reported by three gas producers, two gas distributors, 20 OEMs, and 12 service companies.



Further findings:

- Prices for the high GWP gases/mixtures R134a, R410A, and R404A have been on the increase since Q2/2021 (on average up by 45%, 27%, and 22%, respectively, throughout the supply chain). In general, the EU refrigerant market appears to be quite stable in terms of supply, where previous issues including freight and transport from China have been significantly reduced.
- Since Q2/2019, the prices of R448A, R449A and R452A have decreased essentially throughout the entire supply chain until Q2/2022 (the only exceptions are on producer- and distributor-level for R448A). Similarly, prices for R1234yf, R445A and R513A also dropped in that same time period.
- Prices of quota authorisations are reported to have increased, with some tentative indications for increasing average prices (range of 3.4 to 11 €/t CO₂e, with an average of ca. 5-6 €/t CO₂e).
- Compared to 2014, prices of R134a are 1-6, R404A prices are 3-9 and R410A prices are 1-6 times higher depending on the supply chain level. Compared to Chinese producer prices, European selling prices for R134a and R410A are 3.5- and 3-fold, respectively.



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OEM-level

Figure 2 shows the **development of average HFC purchase prices** reported by all OEMs that participated in the survey. At the OEM level, prices increased on average by 6%, with the most notable change for R410A (+ 17%). Prices at OEM level are usually determined by longer term fixed price agreements.

