DG CLIMA support contract no. CLIMA.A2/SER/2020/0009MV

European Commission

Excerpt for participants:

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

Q3/2022

CITEPA

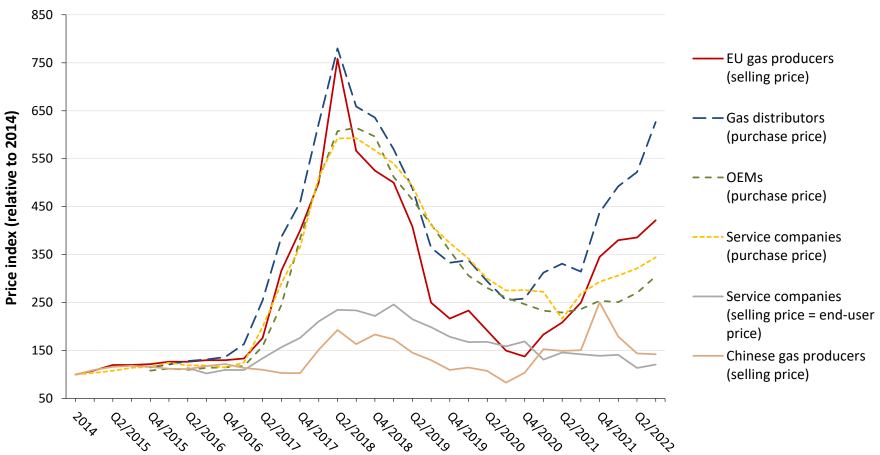
Öko-Recherche
Büro für Umweltforschung und -beratung GmbH

In cooperation with PROZON, CONAIF, and VDKF.
For **more information** visit our website www.oekorecherche.de or follow us on Twitter www.twitter.com/OekoRecherche.

In Q3/2022, 60 companies from 10 EU Member States (main respondents from Germany, France, Italy and Poland) and all supply chain levels (3 gas producers, 12 gas distributors, 26 OEMs, 12 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.

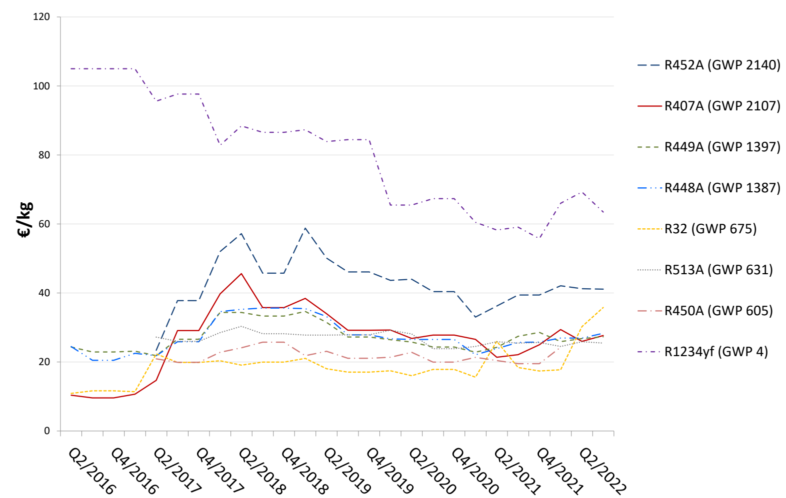
Along the supply chain

Figure 1 shows the **price developments for R134a** (GWP 1430) at all levels of the supply chain. Compared to Q2, R134a prices reported for Q3 significantly increased at all levels of the EU supply chain (up by 11% when calculating the average over all levels of the supply chain), while prices in China have dropped. Data presented include prices reported by two gas producers, two gas distributors, 11 OEMs, and 10 service companies.



Alternatives

Figure 2 displays the development of purchase prices of some fluorinated alternatives with medium-high or low GWP as reported by 10 companies from the service sector. Compared to Q2/2022, the Q3 purchase price for R32 increased by 18 % on the service company level.



Further findings:

- Prices for high GWP gases/mixtures R134a and R410A have been on the increase since Q3/2021 (on average up by 42% and 16%, respectively, throughout the supply chain). For R404A, most EU suppliers indicated that they have stopped selling virgin R404A.
- Prices of alternatives such as HFC/HFO blends mostly showed decreases in comparison to the previous quarter (R448A, R449A and R452A went down by 3%, 1% and 2%, respectively).
- In general, the EU refrigerant market appears to be quite stable in terms of supply. There were a few indications of limited regional availability of R1234ze.
- The price of quota authorisations increased, with prices ranging from 10 to 15 €/t CO2e. Average authorization prices (ca. 12 €/t CO2e) have increased by 90 % compared to last quarter.
- Compared to 2014, prices of R134a are up to 6 and R410A prices are up to 4 times higher depending on the supply chain level. Compared to Chinese producer prices, European selling prices for R134a are 3-fold higher.