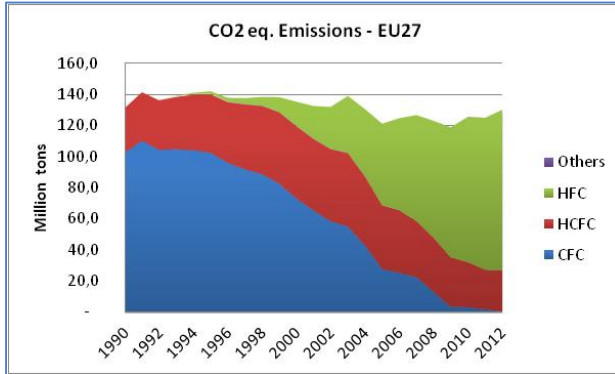


Refrigerant emission analysis - Europe 2012

Analysis based on the European Refrigerant Inventory for the year 2012, performed by the CES in August 2013.



Total refrigerant emissions in CO₂ eq. tons from 1990 to 2012, by family of refrigerants.

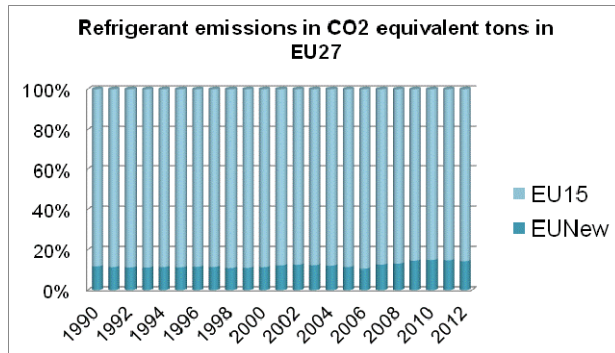
The refrigerant emissions in Europe are evaluated to **73 000 tons** and **130 million tons of CO₂ equivalent in 2012**.

They increased by 4 % from 2011.

CFC emissions now represent no more than 150 tons CO₂ equivalent, most equipment already reached their end of life.

HCFC emissions grew about 3 % because of an increase of the number of retrofit operations or renewal of equipment.

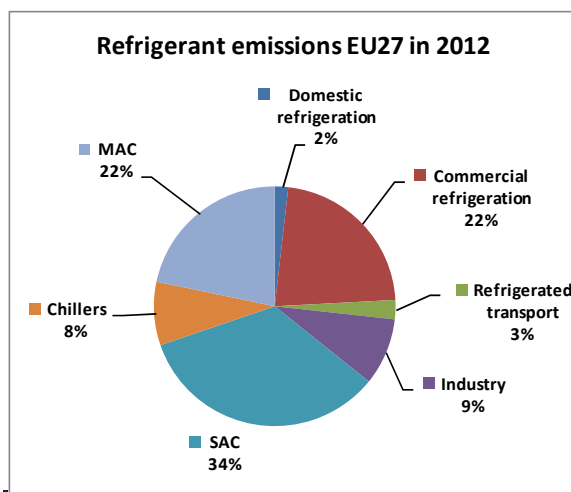
Lastly, HFC CO₂ equivalent emissions rise at 103 million tons, dominated by R-404A at 40%.



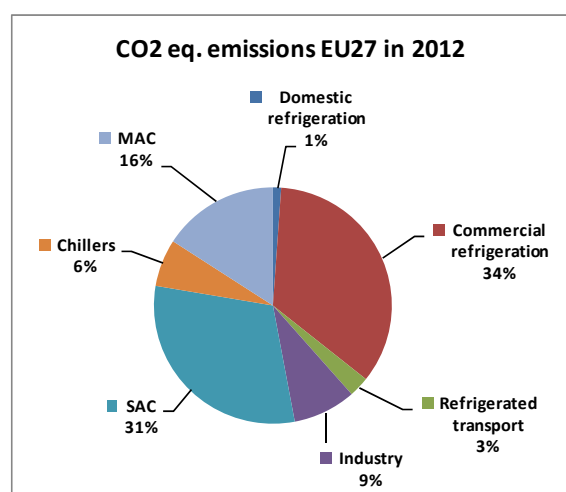
Total refrigerant emissions in CO₂ eq. tons from 1990 to 2012, by country area in EU27.

In EU27, refrigerant emissions in CO₂ equivalent tons are dominated by EU15. In 2012, the share of EU15 is about 86 %. So, in 2012, about 111 500 CO₂ eq. tons of refrigerant have been emitted in EU15 and 18 500 tons in the twelve remaining countries ("EUnew").

Due to the strong increase of the air conditioning equipment market during the last ten years and to the current retrofits of HCFC equipment in EU15, the refrigerant emissions are significantly dominated by the stationary air conditioning sector in EU27 in 2012. In CO₂ equivalent, refrigerant emissions are dominated by commercial refrigerant sector, due to the large use of the R-404A.



Total refrigerant emissions in EU27 in 2012 - sector breakdown.



Total refrigerant emissions in CO₂ equivalent in EU27 in 2012 - sector breakdown.