

Energy efficiency potential in petrochemicals



The chemical sector accounts for 10% of all industrial energy consumption.

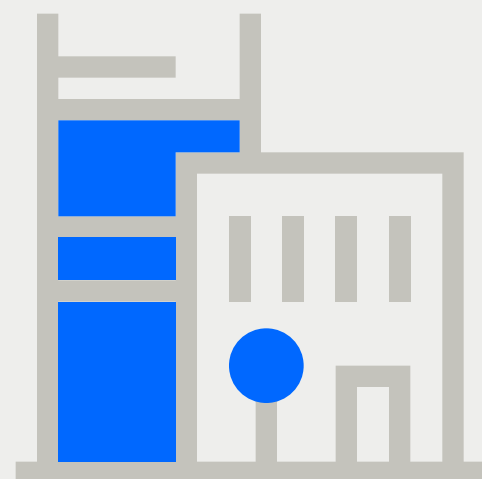
Direct CO₂ emissions from primary chemical production represent 7% of the world's CO₂ emissions.

Alfa Laval's contribution

Yearly new installations

Every year, new Alfa Laval plate heat exchangers save 900 GWh of energy and reduce CO₂ by 194,000 tonnes, compared to traditional technologies. This is the equivalent of heating:

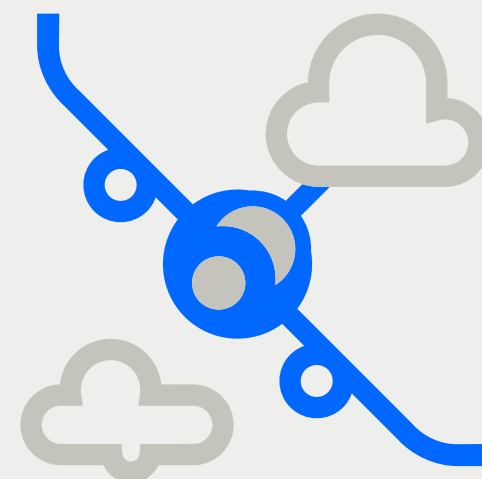
90,000
European homes



Total installed base

Alfa Laval's total installed base of heat exchangers in petrochemical plants saves 19 TWh of energy annually, while reducing CO₂ emissions by 4.1 million tonnes. That is equivalent to:

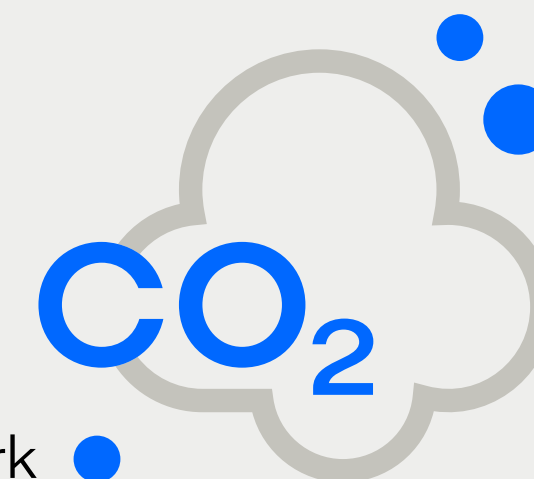
13,300
Flights between
London – Shanghai



Service potential

If all petrochemical plants regularly serviced their plate heat exchangers to optimize heat transfer efficiency, energy consumption could be reduced by 154 TWh per year. That is equivalent to:

32 million
Tonnes of CO₂
Equivalent to Denmark



Imagine if...

...all petrochemical plants used plate heat exchangers from Alfa Laval instead of traditional technologies. Energy consumption could be reduced by 132 TWh, saving:

28 million
Tonnes of CO₂
Equivalent to Qingdao, China

