Energy efficiency potential in **refineries**

Crude oil refining accounts for 6–8% of all industrial energy consumption.

Energy costs often represent up to 50% of total operating expenses.

Alfa Laval's contribution

Yearly new installations

Every year, new Alfa Laval plate heat exchangers prevent 800,000 tonnes of CO_2 and 3.3 TWh of energy from being produced compared to traditional technologies. That is enough energy to heat:

236,000
American homes

Total installed base

Alfa Laval's total installed base of heat exchangers annually reduces more than 13 million tonnes of CO_2 by saving 54 TWh of energy. The energy generated by:

5,450
Wind turbines

Service potential

If all refineries regularly serviced their plate heat exchangers to optimize heat transfer efficiency, energy consumption could be reduced by 60 TWh every year, saving 13.6 million tonnes of CO_2 emissions – the same as:

44,000
Flights between London – Shanghai

Imagine if...

...all refineries used plate heat exchangers from Alfa Laval instead of traditional technologies. Energy consumption could be reduced by 23% or 1000 TWh – the same as:

245 million
Tonnes of CO_2
Equivalent to Spain