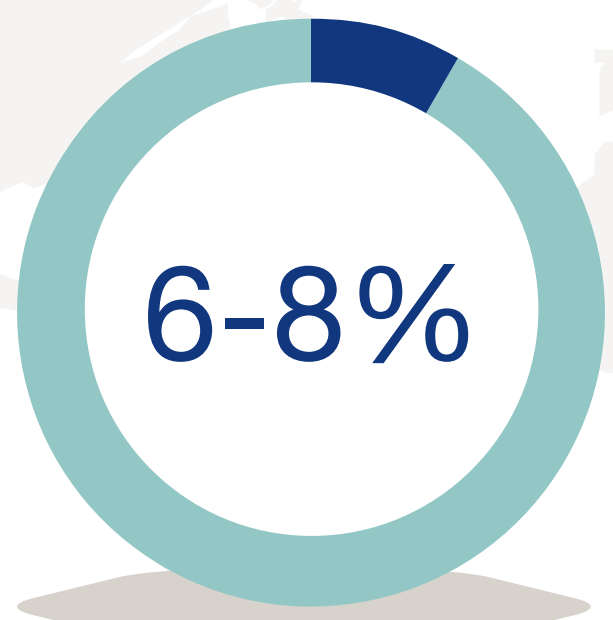


Energy efficiency potential in refineries

The refinery industry



Of all industrial energy consumption

50%

Of OPEX is energy costs

By replacing four shell-and-tube heat exchangers with one Alfa Laval compact heat exchanger one **Swedish refinery** achieved:



7 MW

Energy savings

14,600

Tonnes CO₂ reduction

Our yearly new plate heat exchanger installations:



Annual electrical savings
3.3 TWh

=

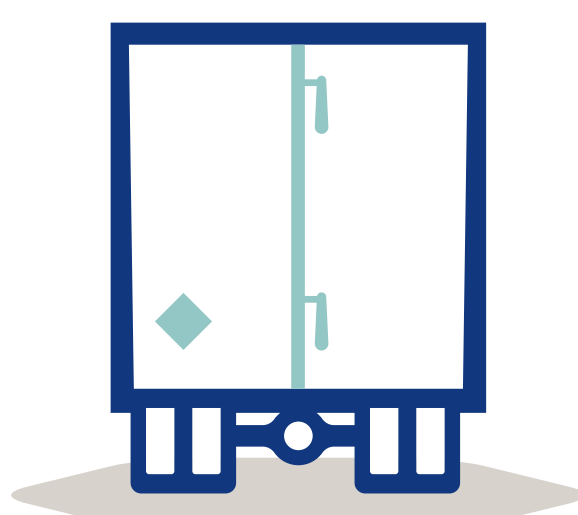


Energy demands of heating
236,000
American homes



Annual emissions reductions
800,000
tonnes

=



Emissions from
9600
heavy trucks



Annual energy savings
1000 TWh

=



Annual output of
100,000
Wind turbines



Annual emissions reductions
245,000,000
tonnes

=



Annual emissions of
Spain



ALFA
LAVAL