

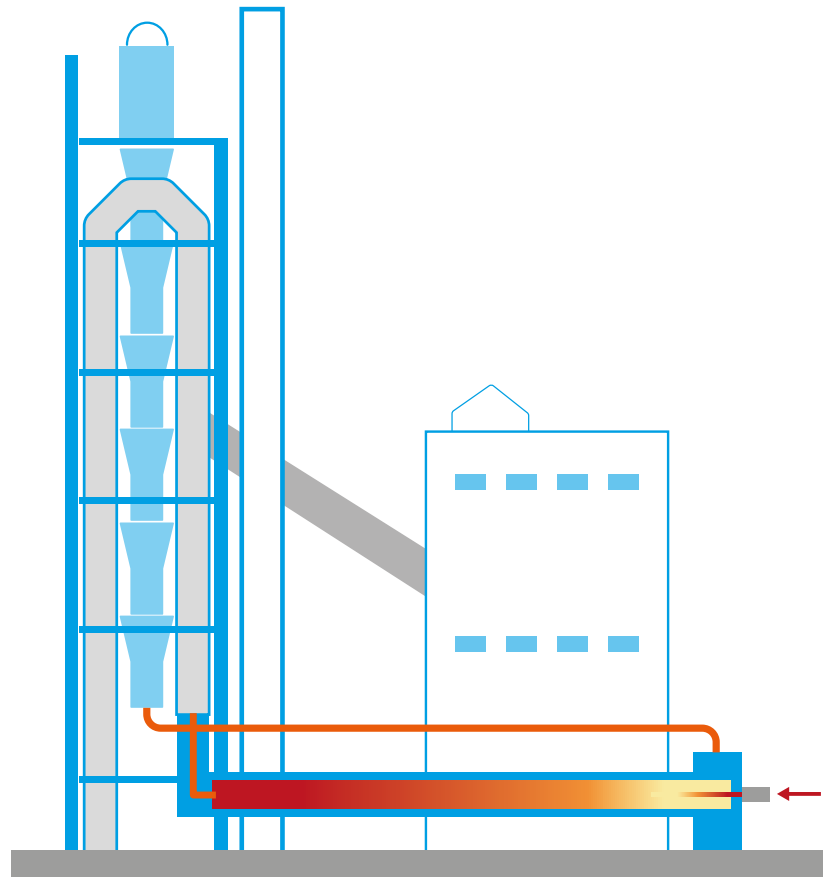
Difficult to decarbonise industries – Lime making

Notes:

Unavoidable CO₂ emissions occur from the lime stone calcination process and are also associated with the energy and power requirements.

Heat for calcination can be decarbonised with renewable power for electrical heating, or biofuels.

CO₂ capture from the process is essential for decarbonised lime production.



Calciner tower & rotary lime kiln

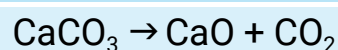
Lime making

Main CO₂ source

Chemical reaction producing CO₂

Other industries with similar applications

Reduction of limestone to calcium oxide



– Cement making

– Refractory materials, $\text{MgCO}_3 \rightarrow \text{MgO} + \text{CO}_2$