



KEY TAKEAWAYS

Reducing carbon, fueling growth: Lowering emissions in the chemical industry

01

The chemical industry is crucial in building a sustainable global economy. However, the industry emits more than **two gigatons of greenhouse gas emissions per annum globally**.^a

02

To accelerate their pace of lower-carbon innovation, chemical and material producers will need to embrace **new technologies**, get closer to **end markets**, and take a lead role in working within—and across—**value chains** to deliver lower-carbon products and solutions.

03

Lowering carbon emissions is not only a challenge but also an **opportunity**, potentially opening pathways for chemical companies to capture additional value.

04

Demand for more **sustainable products** is increasing as chemical customers look to achieve their environmental, social, and governance ambitions.

05

To take advantage of this opportunity, chemical companies should actively work within their **supply chains** and with **end-market customers** to ensure their offerings are positioned to support sustainability targets.

06

Achieving net-zero emissions across the chemical value chain will require not only **capital investment** and **business transformation** but also new types of **partnerships** with key stakeholder groups.

Source: ^aDeloitte analysis based on data from: Jeffrey Rissman et al., "Technologies and policies to decarbonize global industry: Review and assessment of mitigation drivers through 2070," *Applied Energy* 266 (2020).