

Comprehensive end-to-end solutions to reduce CO₂ emissions in heavy industries



By working with ExxonMobil, customers will gain confidence to make decarbonization investments. The alliance combines technical capabilities and decades of expertise into a fully integrated offering that:



PROVIDES

comprehensive and flexible carbon capture and storage (CCS) solutions



LEVERAGES

operating and engineering expertise to optimize the liquid amine technology integration



APPLIES

ExxonMobil core science capabilities to develop next generation technology

The push to decarbonize the industrial and power-generation segments has never been stronger, and CCS technologies are among the most viable large-scale solutions on the market today. Low Carbon Solutions is leading the effort to provide integrated CCS solutions, many of which involve the KM-CDR Process™ liquid amine carbon capture technology from Mitsubishi Heavy Industries (MHI), which is one of the only CO₂ capture technologies commercially demonstrated at greater than 1 million metric tons per year. The ExxonMobil and MHI collaboration supports the development of scalable solutions and technology advances, while deploying the companies' complementary capabilities to effectively serve industrial and power-generation customers.



How we support customers

Understanding our customers' priorities is key to customizing a fully integrated solution. ExxonMobil conducts a fit-for-purpose decarbonization assessment to determine which technologies to deploy. Where MHI liquid amine technology is the best fit, ExxonMobil and MHI will develop a proposal that addresses the customer's needs with a combination of the licensed technology optimally integrated into the customer facility, engineering procurement and construction, CO₂ transportation and storage, and a range of owner/operator business models related to the capture facilities. ExxonMobil and MHI provide customers with confidence in the technical viability of the solution, proper risk management across the value chain, and durability of commercial arrangements.

The collaboration develops and deploys next-generation technology, which strengthens liquid amine system attributes and enhances the value of CCS solutions, further catalyzing hard-to-abate sectors to decarbonize.



Customer benefits

Navigation of concept alternatives and expertise to optimize the end-to-end solution offer customer confidence to invest in decarbonization

- Hassle-free, optimized assembly of the integrated solution to meet your needs across the entire CO₂ value chain from capture through storage
- Managed risks - technical feasibility, construction, operation, and commercial longevity, backed by financial strength

Customized solutions tailored to a range of customer preferences and needs, including license-only, transportation & storage-only and turnkey projects

- Techno-economic decarbonization assessments and project proposals
- Scalable, holistic solutions to address complex, large project needs
- Wide range of flexible business models (e.g., asset funding, construction, ownership, operatorship)



Contact your local ExxonMobil representative to learn more about our CCS solutions and how we can help you lower your carbon footprint.

