CCS deployment will be necessary in energy intensive industries.\(^1\)

CCS will be crucial to reduce refineries' emissions. 2050 emissions savings would jump from 50% to 70% with the effective deployment of CCS projects throughout the industry.\(^2\)

ExxonMobil is involved in more than a fifth of the world’s carbon capture capacity. ExxonMobil and FuelCell Energy, Inc. have partnered to develop CO2 capture technologies using carbonate fuel cells.\(^3\)

Energy efficiency measures could half energy consumption by 2050 compared to 2005.\(^4\)

The EU refining industry is exploring ways to be more energy efficient through sectoral integration which can optimize use of heat, steam and power.\(^5\)

Cogeneration – the use of waste heat to power other processes – has been a significant factor in improving energy efficiency at ExxonMobil facilities around the world.\(^6\)

Based on today’s knowledge and technologies, electrification using renewables alone will not be the silver bullet for all transport modes.\(^7\)

For mobility, a combination of different technologies will be needed, such as advanced biofuels, biogas & algae, together with industrial cooperation and the right R&D framework.\(^8\)

Biofuel made from algae has the potential to be a major player in a low-carbon energy future. Since 2009, ExxonMobil and Synthetic Genomics have been partners in researching and developing oil from algae to be used as a renewable, low-emission alternative to traditional transportation fuels.

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1. European Commission, A Clean Planet for all - A European strategic long-term vision for a prosperous, modern, competitive and climate neutral economy, p. 15
2. FuelsEurope, Vision 2050, p. 41
3. CCS 2050 energy and carbon summary, p. 38
4. European Commission, A Clean Planet for all - A European strategic long-term vision for a prosperous, modern, competitive and climate neutral economy, p. 4
5. FuelsEurope, Vision 2050, p. 41
7. European Commission, A Clean Planet for all - A European strategic long-term vision for a prosperous, modern, competitive and climate neutral economy, p. 10