

The future of energy in Europe

The dual challenge facing the energy industry is to provide affordable energy to support prosperity while reducing environmental impacts.

ExxonMobil supports the Paris Agreement as an important framework for addressing the risks of climate change. **We encourage society to remain focused on pursuing cost-effective greenhouse gas reduction options, as well as policies that promote flexibility and innovation through a market-based, technology-neutral policy framework.**

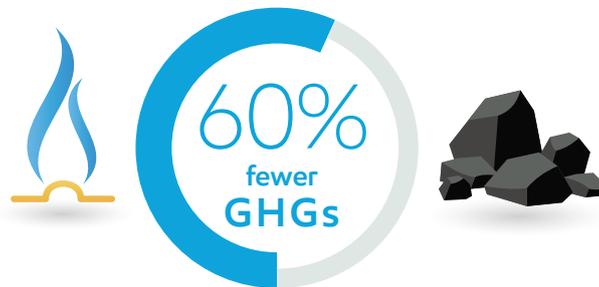
We believe technology will be key in achieving Europe's climate ambitions and that our company has a constructive role to play in developing solutions.



Carbon capture and storage

Carbon capture and storage (CCS) has the potential to make a great impact on the world's greenhouse gas levels.

- CCS can help minimize the carbon footprint of energy-intensive industries such as the refining industry and chemical sector.
- Three out of four of the scenarios in IPCC's special report on 1.5 °C include CCS to achieve important emissions reductions using. (Global Warming of 1.5 °C, IPCC)
- ExxonMobil's ongoing research using fuel cells for CCS has the potential to significantly lower cost, thereby bringing this breakthrough technology closer to widespread use.



The role of natural gas

Natural gas is a flexible, abundant and a low-emissions fuel, with the potential for large emissions savings in power generation.

- Natural gas emits up to 60% fewer greenhouse gas emissions than coal.
- Natural gas can also be a partner for renewables, supplying reliable power while also supplementing intermittent renewable energy sources such as solar or wind.

Algae: the low-emission fuel of tomorrow

- Liquid fuels will continue to have a role for the coming decades due to their high energy density, particularly in transport sectors such as aviation, marine and heavy-duty road transport.
- ExxonMobil's research on algae-based advanced biofuels has potential to cut GHG emissions by over 50% and works with existing engines and infrastructure.
- By 2025, we plan to scale production to a level enough to fuel over 200,000 flights per year between Brussels and Berlin.



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Petrochemicals as enablers

- Petrochemical help reduce emissions in transport through light-weighting vehicles: a 10% weight-reduction can improve fuel economy by 7%.
- In the residential sector, petrochemicals improve energy efficiency through better insulation.
- Petrochemicals are also used to produce solar panels and lubricate wind turbines. ExxonMobil lubricants are used in more than 40,000 wind turbines worldwide.



40,000
wind turbines

Since 2000,
ExxonMobil has invested more than \$9 billion to develop lower-emission energy solutions, and spend \$1 billion annually on R&D.

In conclusion, we are committed to providing affordable energy to support human progress while advancing effective solutions to address the risks of climate change.