

Global Outlook

Our view to 2050

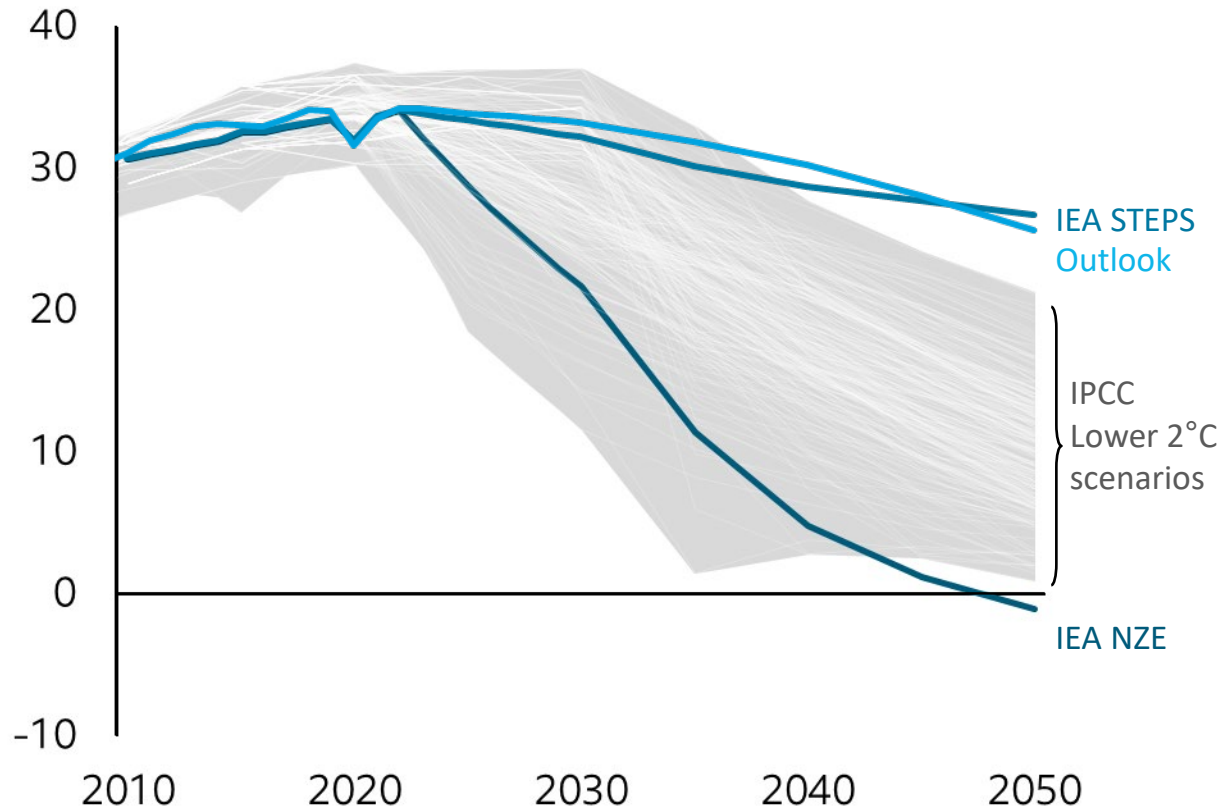
The Outlook for Energy includes Exxon Mobil Corporation's internal estimates of both historical levels and projections of challenging topics such as energy demand, supply, and trends through 2050 based upon internal data and analyses as well as publicly available information from many external sources including the International Energy Agency. Separate from ExxonMobil's analysis, we discuss a number of third-party scenarios such as the Intergovernmental Panel on Climate Change Lower 2°C and the International Energy Agency Net Zero Emissions by 2050 scenarios. Third-party scenarios discussed in this report reflect the modeling assumptions and outputs of their respective authors, not ExxonMobil, and their use and inclusion herein is not an endorsement by ExxonMobil of their likelihood or probability. Work on the Outlook and report was conducted during 2022 and early 2023. The report contains forward looking statements, including projections, targets, expectations, estimates and assumptions of future behaviors. Actual future conditions and results (including energy demand, energy supply, the growth of energy demand and supply, the impact of new technologies, the relative mix of energy across sources, economic sectors and geographic regions, imports and exports of energy) could differ materially due to changes in economic conditions, the ability to scale new technologies on a cost-effective basis, unexpected technological developments, the development of new supply sources, changes in law or government policy, political events, demographic changes and migration patterns, trade patterns, the development and enforcement of global, regional or national mandates, changes in consumer preferences, and other factors discussed herein and under the heading "Factors Affecting Future Results" in the Investors section of our website at www.exxonmobil.com. This material is not to be used or relied upon without the permission of Exxon Mobil Corporation. All rights reserved.

Projections and scenarios

What's the difference – and why do we consider different views?

Global energy-related emissions

CO₂ Billion metric tons



Society's current trajectory

Global Outlook

ExxonMobil's latest view of energy demand and supply through 2050 is based on trends in population, economic development, policy, technology and consumer preferences

International Energy Agency "Stated Energy Policies Scenario" (STEPS)

Reflects a sector-by-sector assessment of current policy in place or announced by governments around the world

Paris-aligned scenarios

U.N. Intergovernmental Panel on Climate Change (IPCC) Lower 2°C

311 scenarios in the IPCC database with a 67% likelihood of limiting peak warming to below 2°C throughout the 21st century

Net zero

IEA Net-Zero Emissions by 2050 Scenario (NZE)

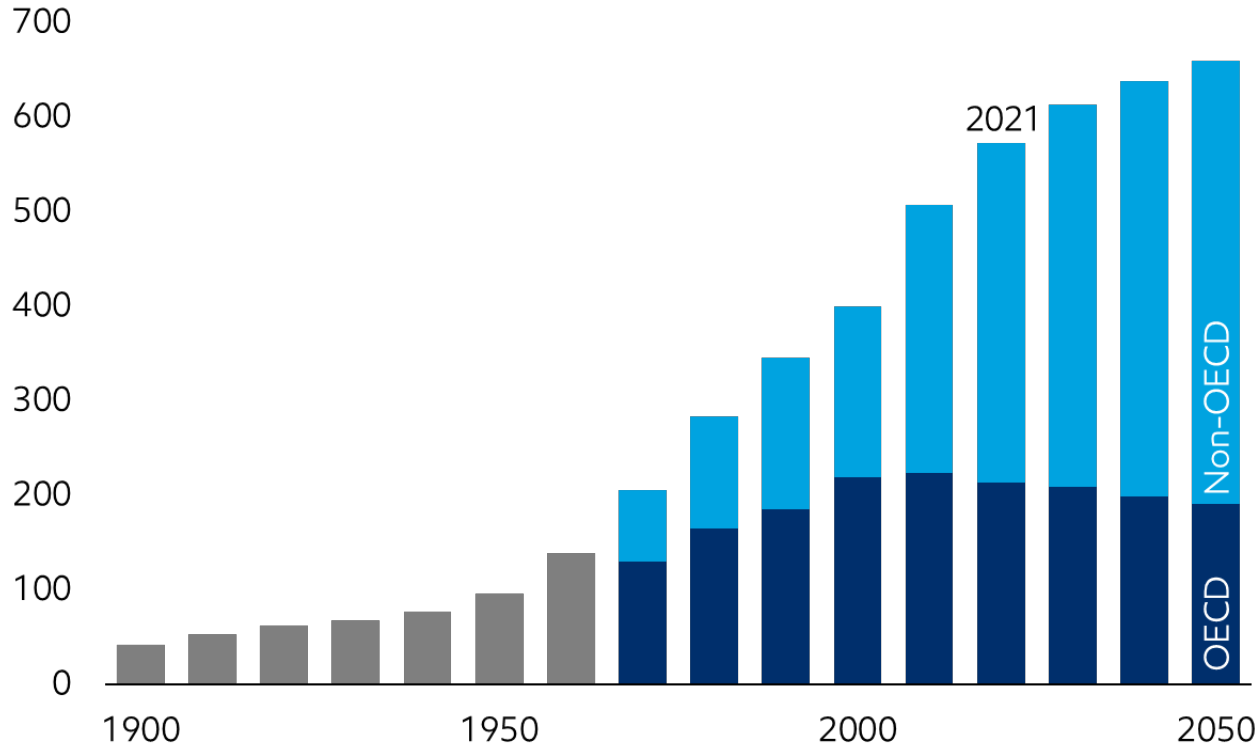
An aggressive pathway that assumes all necessary changes in policy, technology and human behavior occur for the global energy sector to reach net-zero CO₂ emissions by 2050

Global energy demand to grow 15% by 2050

All of that growth will go toward raising living standards in the developing world

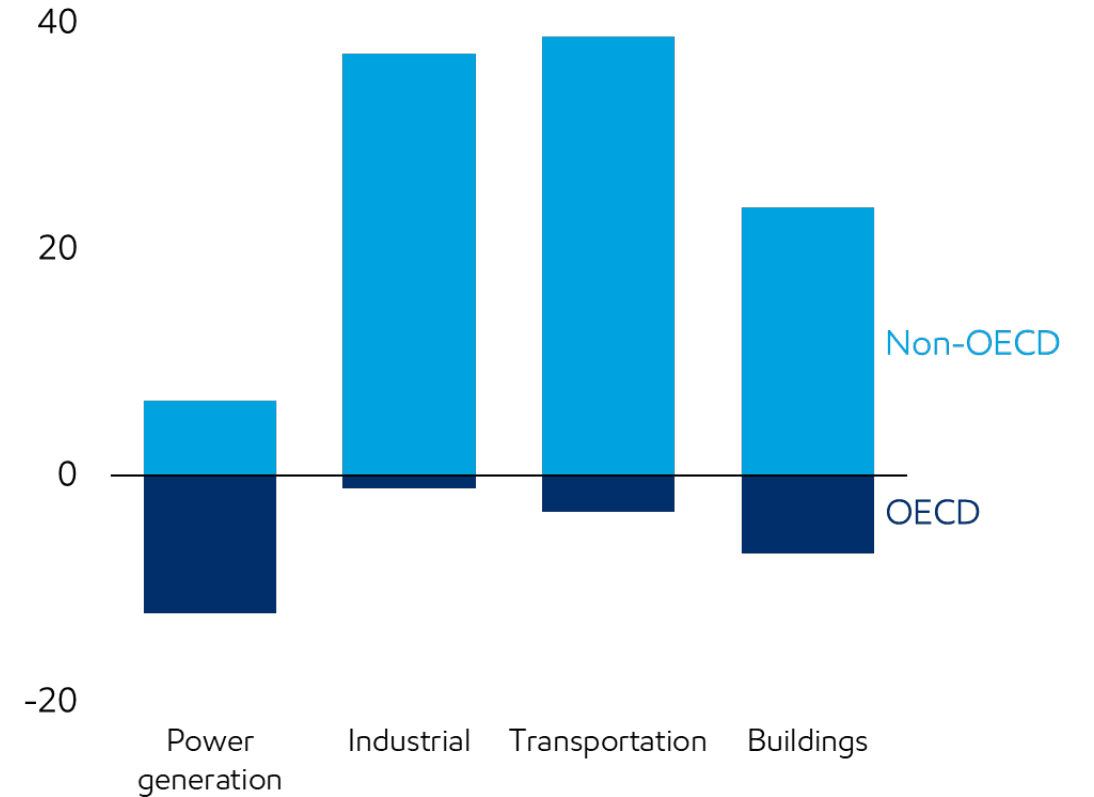
Global energy demand

Quadrillion Btu



Global energy growth, 2021 - 2050

Quadrillion Btu

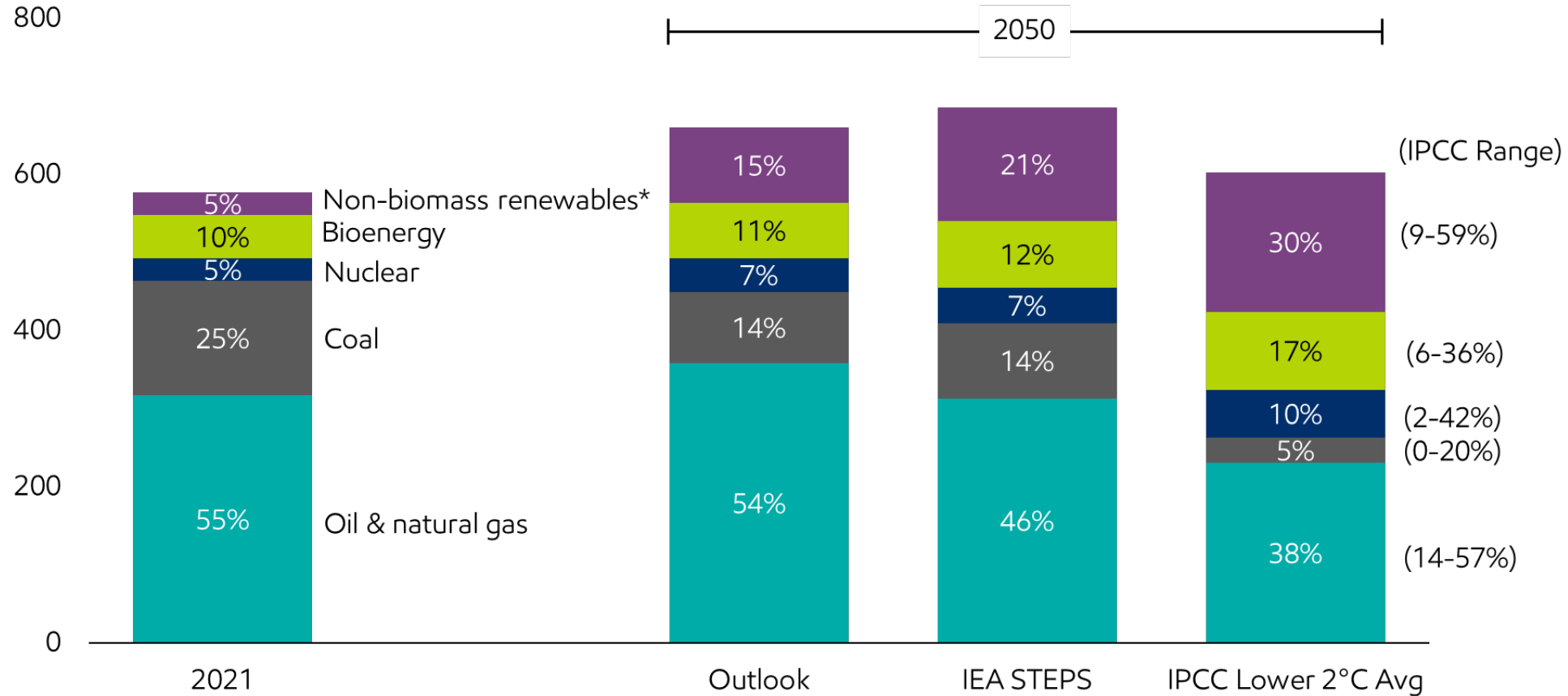


All energy types vital to a prosperous, lower-emissions future

Renewable energy grows; oil and natural gas projected to meet more than half of the world's needs

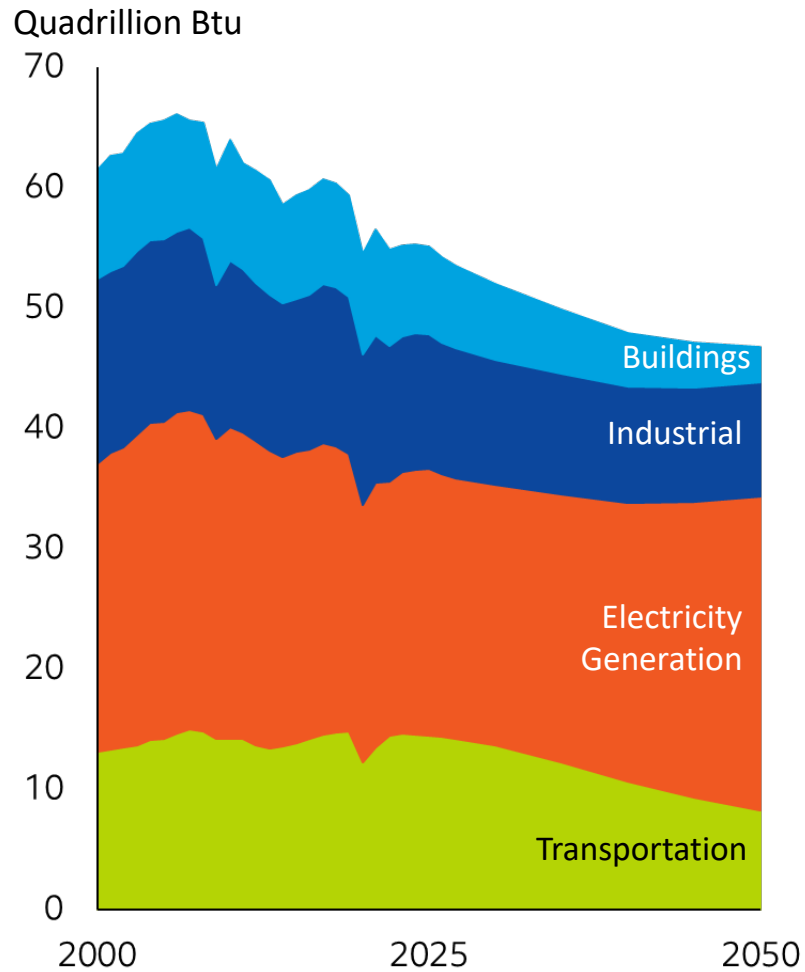
Global energy mix

Quadrillion Btu

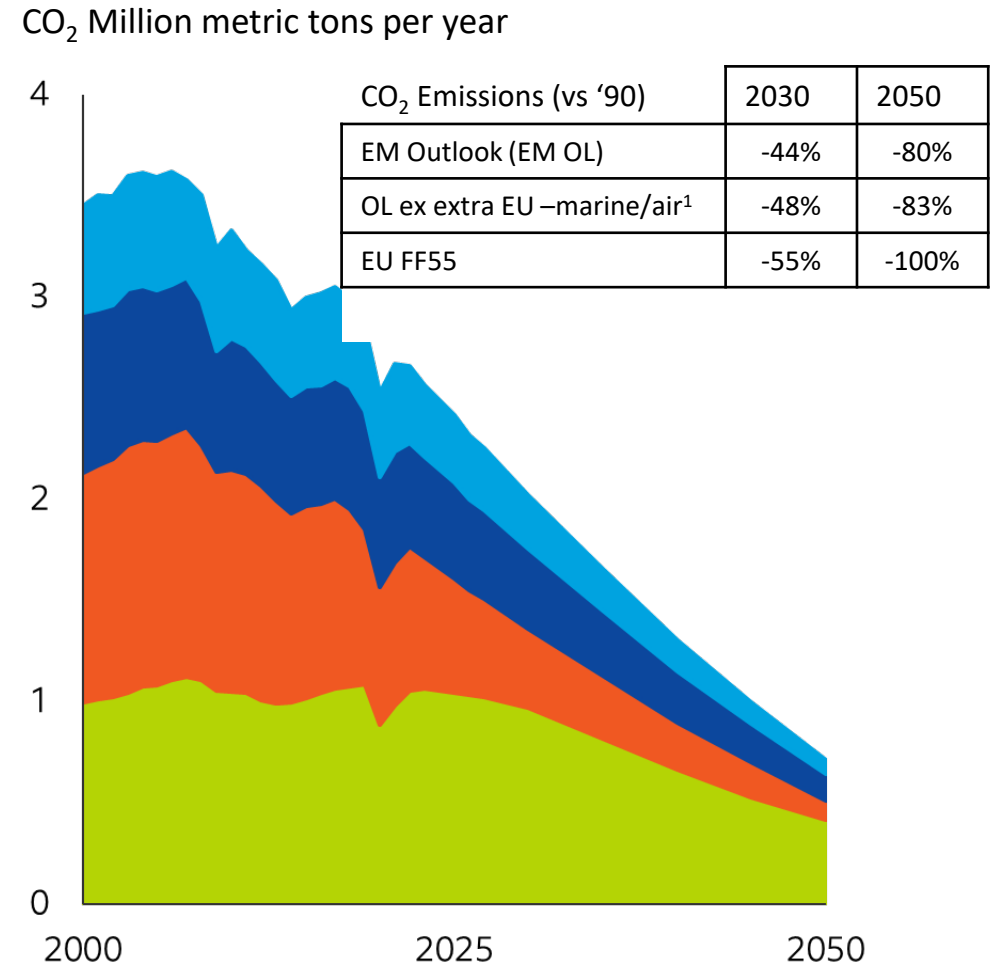


E.U. Projected energy demand and emissions

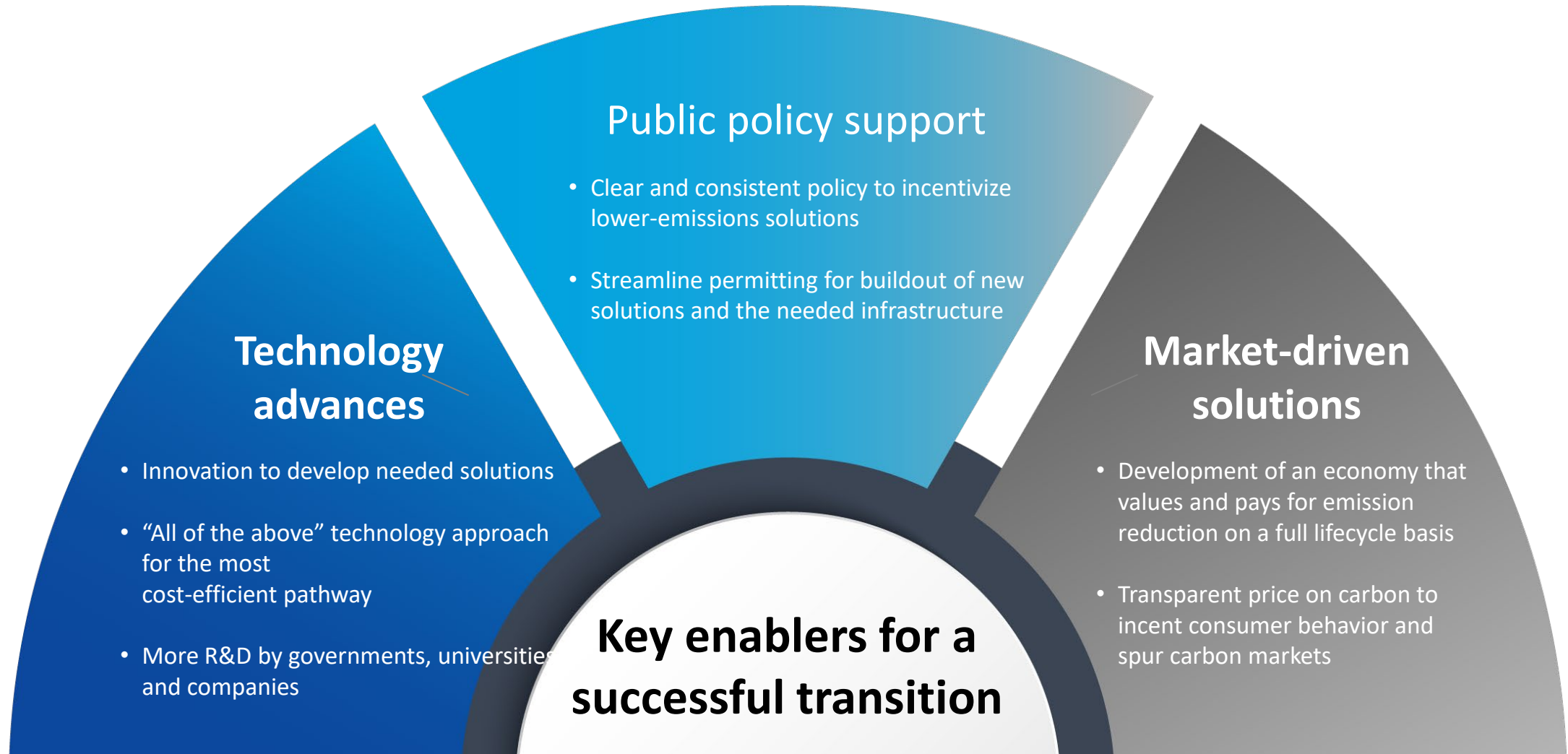
Primary Energy Demand by Sector



Energy-Related Emissions by Sector



Key drivers determining the pace of the energy transition



Explore more



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