

Roadmap for Green Fuels in Transport and Industry

Danish Roadmap 2024



MISSION
GREEN FUELS

What is MissionGreenFuels?

MissionGreenFuels is one of four state-backed mission-driven green partnerships supported by the Innovation Fund Denmark.

MissionGreenFuels plays a key role in advancing green fuel solutions in Denmark by uniting stakeholders from research, industry, and government to tackle challenges and opportunities in the transport and industrial sectors.

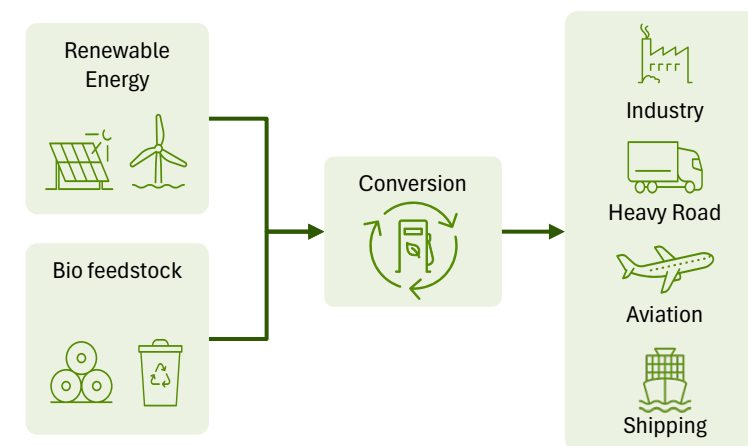
Why this Roadmap Matters

The MissionGreenFuels roadmap provides a clear strategy for how Denmark can achieve its green fuel ambitions.

It provides a structured and urgent call to action for advancing the adoption of green fuels in Denmark's transport and industrial sectors, guiding stakeholders through key milestones from now until 2050.

Understanding Green Fuels

Green fuels, also known as renewable or sustainable fuels, are **produced using renewable or low-carbon energy sources** and can serve as a substitute for fossil fuels. Depending on their production pathway, **they can be carbon-neutral or even carbon-free**.



The potential for Green Fuels is significant. It can contribute to meeting the national and global target while **positioning Denmark as a mayor player in research and innovation.**

The Role of Green Fuels in Decarbonization



Critical for
meeting climate
targets



Replacement for
fossil fuels



Key in hard to
decarbonize
sectors



Security of
supply – domestic
production

Key Roadmap Takeaways



Availability of sufficient green power is identified as the most important prerequisite for developing hydrogen based green fuels.



Integration with existing and future energy systems, will be needed, including electricity grids, heating networks, gas/hydrogen pipelines, and CO2 supply chains.



The energy transition requires the successful deployment of other technologies that are still immature, such as green hydrogen and carbon capture technologies.



Advancement of low-maturity technologies in green fuel production is essential.



Companies that innovate can set a strategic direction quickest and **can position themselves to capture the most attractive elements** of the value chain.



Social aspects are critical. This requires community engagement, transparency, and broad stakeholder involvement.



Research and innovation is cornerstone: Denmark's strong innovation ecosystem, supported by government, industry, and academia, is fundamental.



Utilization, not storage, of biogenic CO2 will be needed for efuels production. Long-term, direct air capture will likely be needed.



www.missiongreenfuels.dk

Want to know more?

The MissionGreenFuels Roadmap outlines clear priorities and actionable steps for green fuels stakeholders and explores the latest national and global developments, ensuring it remains a relevant tool for researchers, policymakers, and other central stakeholders.



Roadmaps for the following green fuels



Green hydrogen



Intermediary Fuels



Aviation Fuels



Maritime Fuels