

MissionGreenFuels call

Pool 4 – Solutions

Application Deadline: 12 November 2025, at 11:59 AM (noon).

Project duration: Minimum one year. Projects must end no later than May 2030.

Total budget for this call: Approximately 68 million DKK.

About MissionGreenFuels – our partnership and roadmap

MissionGreenFuels is a mission-driven partnership dedicated to accelerating the development and deployment of sustainable green fuels for hard-to-abate sectors, such as shipping and aviation, where direct electrification is insufficient.

With a strong focus on innovation, collaboration, and impact across the green fuel value chain, MissionGreenFuels supports research, development, and demonstration projects that drive technological breakthroughs, improve regulatory frameworks, enhance community engagement, and strengthen Denmark's position as a global frontrunner in sustainable fuel solutions.

By setting a clear direction and fostering collaboration between a wide variety of stakeholders incl. industry leaders, research institutions, and policymakers, MissionGreenFuels aims to contribute to reaching the Danish climate goals. Furthermore, the mission supports Danish research, innovation, growth, job creation, and export potential within the field of green fuels.

With the implementation of green fuels in our energy system, fuels can be produced locally by utilising wind, solar, and bio resources. This will enhance energy security, strengthen resilience, and reduce dependence on fuel import from foreign regions.

What is called for?

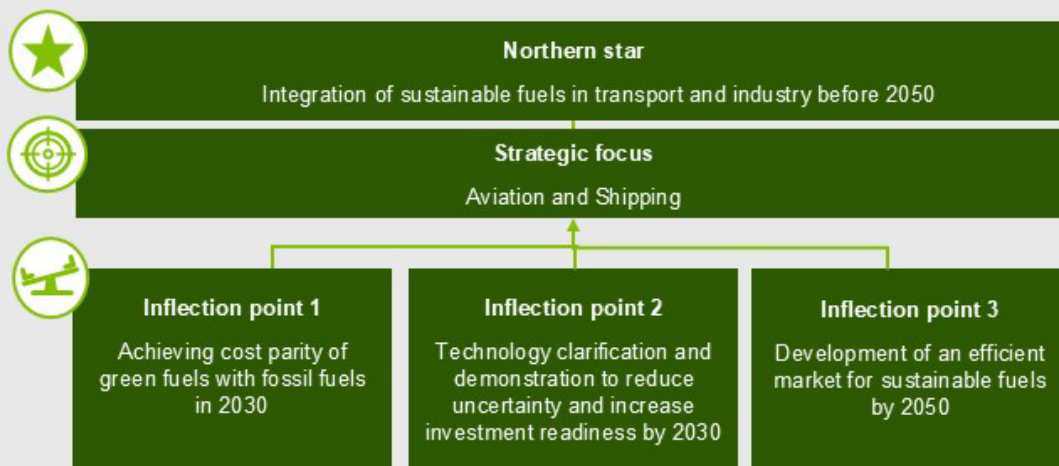
The MissionGreenFuels partnership invests in ambitious, cross-cutting research and innovation projects that can create new, concrete solutions to issues and challenges towards 2030 and 2050. We seek projects that contribute to the overall MissionGreenFuels mission and [roadmap](#).

At MissionGreenFuels, we use a theory of change as a strategic tool to ensure that funded projects do more than develop new technologies – they must create real, long-term value for society, the climate, and the Danish innovation ecosystem.

Throughout the past year the MissionGreenFuels secretariat and Board of Directors, based on the updated roadmap and input from the partnership, have created a mission specific impact framework for MissionGreenFuels:

MissionGreenFuels' Impact Framework

Figure 1: Overview of MissionGreenFuels' Impact Framework, June 2025



The impact framework outlines how MissionGreenFuels works towards its ambitious goal. To support this transformation, the mission focuses on three inflection points that must be achieved to unlock long-term change. By 2030, the focus is on enabling conditions by achieving cost parity with fossil fuels, and increasing technological clarity and investor confidence. By 2050, the focus is on laying the groundwork for a mature and efficient market. These breakthroughs are not endpoints but essential steps toward a future where sustainable fuels become the mainstream choice.

Applicants must clearly demonstrate how it contributes to one or more of the defined inflection points and learning questions.

We expect your proposal to:

- Align clearly with one or more inflection points listed in the call;
- Address one or more central learning questions;
- Describe how you will generate, document, and share insights that help the partnership collectively to move the green fuel agenda forward.

Please read the evaluation criteria for the call before you start writing your application, as this will guide you towards the type of applications and consortia we are looking to support.

Projects under the following three themes can be applied for:

Theme 1: Towards economically viable and sustainable green hydrogen

Learning question: Which hydrogen-related technological elements could be demonstrated at industrial scale by 2030 and have the potential to significantly reduce the cost of hydrogen?

Green hydrogen is essential for decarbonising hard-to-electrify sectors such as heavy transport and industry, shipping, and aviation. It can be used directly to replace traditional fossil fuels in the transportation sector, or act as a building block when producing green methanol, sustainable aviation fuel, hybrid production of bio-methane, or green ammonia.

However, to make green hydrogen and green hydrogen derivatives economically viable and competitive with fossil fuels, the production costs must be significantly reduced while ensuring long-term environmental sustainability. By lowering the cost of green hydrogen, the overall cost of other sustainable fuels will also decrease, making them more attractive in industries reliant on fossil fuels.

Economies of scale and electrolyser improvements play a significant role in decreasing costs for green hydrogen. The first term describes the savings that come from producing in large quantities. The second factor helping drive down costs is electrolyser innovation. The price of electrolyzers is decreasing, as capacity, competition, and efficiency increase. This will allow for larger facilities to be built, producing more green hydrogen and bringing the cost closer to that of fossil-based hydrogen.

In this call we look for both radical and incremental demonstratable innovations within technological development that are aimed at improving the efficiency, cost reduction, and scalability of green hydrogen production (e.g., innovations in electrolyser design, unit scalability, balance of plant simplification, materials science, and renewable energy integration). Furthermore, we look for solutions to reduce, reuse, or eliminate the use of critical or rare materials in electrolyzers.

The projects must be able to set clear milestones and targets for potential CO₂ and cost reduction, job creation, and export potential. The projects must clearly describe how they contribute to reaching cost parity of sustainable fuels in 2030.

All projects must further include relevant aspects on system integration and social sciences and humanities (SSH) – how does your project fit in the bigger system puzzle? And what is the impact on society?

We look for projects, with duration of three to four years. A total budget of 28 million DKK is allocated for this theme, and we expect to invest in one to three projects with an investment rate of maximum 75%. We foresee projects involving active collaboration between three to eight partners with a mix of academia and industry. The solution must be deployable in industrial application in 2030.

Theme 2: Towards economically viable and sustainable green fuels for shipping and aviation in 2030

Learning question: Through demonstration in industry, which fuel production pathways can deliver significant cost down in 2030?

In 2030, green fuels will still face challenges in being cost-competitive compared to traditional fossil fuels, which hinders their widespread adoption. Without the financial backing to make sustainable fuels competitive with fossil fuels, their role in decarbonising the shipping and aviation sectors may be limited, slowing the overall pace of the green transition.

By 2030, particularly biofuels and early-stage e-fuels, or combinations hereof, that are currently close to commercial maturity, will play a critical role in reducing emissions in the shipping and aviation sector, leveraging existing infrastructure and feedstocks to meet short-term climate goals.

In context of 2030 we expect the majority of the projects under this theme will demonstrate or advance bio/hybrid production pathways with potential to deliver significant CO₂ reduction within shipping and aviation. For biofuels, it is important to note that to be considered sustainable, the bio-feedstocks must align with the EU RED III rules for “advanced” feedstocks and must not include energy crops or crops grown for food.

Demonstrating the technical feasibility and economic viability of advanced conversion technologies is critical for future large-scale production of green fuels that uses 2nd or 3rd generation bio-feedstocks.

Pilot and demonstration projects should be designed to validate under real-world conditions, assessing performance metrics such as conversion efficiency, product yield, and process stability.

The projects must be able to set clear milestones and targets for (potential) CO₂ and cost reduction, job creation, and export potential. Furthermore, the projects must clearly describe how they contribute to economically viable green fuels in 2030.

Projects should include relevant aspects of social sciences and humanities (SSH), land-use, life-cycle-assessment (LCA), safety, certification, regulation, identification and understanding of end-demands, and synergies to other competing technologies and/or end-products.

We look for projects with duration of three to four years. A total budget of 30 million DKK is allocated for this theme, and we will invest in one to three projects with investment rate of maximum 75%. We foresee projects that involve active collaboration between three to eight partners to encourage a mix of academia and industry. Only projects starting at technology readiness level (TRL) of 5/6 or higher with potential to deliver significant CO₂ reduction in 2030 will be considered for funding.

Theme 3: Towards economically viable and sustainable green fuels for shipping and aviation before 2050

Learning question: Which initial initiatives, that ensure long term fuel availability/deployability at scale, should we activate now to support future market development?

Sustainable fuels will be crucial for shipping and aviation in 2050 because these sectors are among the hardest to decarbonise and achieving global net-zero emissions by 2050 requires high energy density sustainable fuels.

By 2050, e-fuels like e-methanol, e-methane, e-ammonia, and e-kerosene are expected to play a significant role when fuelling shipping and aviation.

Despite their potential, sustainable fuels face significant challenges in terms of cost competitiveness, technological readiness, and scalability. Current production costs for e-fuels remain significantly higher than conventional fuels.

In this theme, the aim is to prepare for deployment of sustainable fuels in the future market. This could include infrastructure projects related to the ship- or airport terminal, a green corridor, project that bring produced fuels into usage, or projects that demonstrate the adoption of sustainable fuels.

We look for solutions that can demonstrate or advance the deployment of fuels for shipping and aviation in 2050 with potential to deliver significant CO₂ reduction for 2050.

We look for projects with duration of three to four years. A total budget of 10.5 million DKK is allocated for this theme, and we will invest in one or two projects with investment rate of maximum 75%. In these projects, we foresee a clear international perspective and active collaboration between academia and industry.

Who can apply?

Projects should include at least one organisation which is already part of the MissionGreenFuels partnership. Eligible organisations are research institutions or private/public institutions/companies in or outside Denmark, directly involved in the project activities.

Any Danish or international legal entity, directly involved in the project activities, is eligible to apply to participate in and receive funding. The legal entity acting as main applicant must have a Danish CVR (VAT) number.

To receive funding from MissionGreenFuels you must be a partner in the partnership.

Organisations that are not already part of MissionGreenFuels [can request to join here](#).

What and how much can be applied for?

Total budget for this call is approximately 68 million DKK conditioned by sufficient quality within the field of applications. Investment per project ranges from 3.5 to 30 million DKK, see details for each theme.

MissionGreenFuels covers a maximum of 75% of the total project cost. Applicants must ensure that each project partner follow the rules for maximum investment rates as detailed in [Guidelines for Grand Solutions and InnoMission partnerships](#).

The MissionGreenFuels partnership does not accept applications where a successful outcome is dependent on receiving additional funding for further research and development (e.g. projects that involve financing in multiple phases).

Co-financing of salaries and other expenses that are directly linked to the implementation of the project can be included in the budget.

Please make sure to allocate budget for dissemination, communication, and cross-project collaboration, or other mission-related activities.

Important dates

Deadline for application: 12 November 2025, at 11:59 AM.

Expected response date: **Late January 2026**

Expected earliest launch date: **Q2, 2026.**

Evaluation criteria

All applications will be evaluated on:

- 1. Strategic fit to the MissionGreenFuels mission and roadmap**
- 2. Quality of the idea – the quality of the research and innovation**
- 3. Impact – value creation during and after the project**
- 4. Quality of execution – the quality of implementation and execution**

A detailed description of these criteria can be found in the assessment criteria document. Please note that all four criteria have a specific purpose and must be addressed in the application. All criteria are crucial for the evaluation and poor evaluation of one criterion alone can decide whether the applicant will receive funding or not.

International peers will evaluate criteria 2–4. Criterion 1, “Strategic fit to the MissionGreenFuels mission and roadmap” will be evaluated by the MissionGreenFuels Board of Directors.

Evaluation process

Applications must be submitted by e-mail to missiongreenfuels.applications@aau.dk. The call opens in August 2024.

Criteria 2–4 will be evaluated by at least two international external experts. Criterion 1 will be evaluated by the MissionGreenFuels Board of Directors.

Before proposals are subjected to review by external experts, the MissionGreenFuels secretariat will ensure that the proposals comply with the formal requirements described in the call text. Applications which do not comply with the requirements will receive administrative rejection before subjected to external review.

The six applications with the highest total score within each theme from the international peer reviews, will be evaluated by the MissionGreenFuels Board of Directors.

The members of the Board of Directors [can be found here](#). Applicants are asked to indicate whether they see any conflict of interest with any of these.

It is expected that the project applications will receive either invitation for investment negotiations or a rejection of the application in January 2026, after which the investment

negotiations can be initiated with an expected project start in Q2 2026.

Application documents

- Application template please save the file as MGF_pool4solutions_[project name]_[name of applicant]
- [Appendix A – Figures, pictures, tables](#)
- [Appendix B – Partner motivation](#)
- [Appendix C – Key persons](#)
- [Appendix D – Gantt template](#)
- [Appendix E – Budget template](#)

Link to relevant documents

- [Process document](#)
- [Assessment criteria](#)
- [Roadmap for MissionGreenFuels](#)
- [InnoMission guidelines 2024](#)
- [MissionGreenFuels Impact Framework](#)

Contact information

Please visit our [Q&A page](#) for overall questions about the calls.

For any further questions, please contact the MissionGreenFuels secretariat at missiongreenfuels@aau.dk.