



RESEARCH CALL



FUELING CHANGE RESEARCH CHALLENGE FOR GREEN HYDROGEN GENERATOR CONVERSION IN NAMIBIA

Attention all trailblazers in green technology! Your opportunity to make an impact has arrived. The Daures Green Hydrogen Village Innovation Challenge is open for submissions. If you're a student, academic, or part of an institute, share your pioneering research concept notes on converting a 7kVA diesel or petrol generator to a hydrogen or ammonia powered generator. Together, let's drive Namibia towards a brighter, greener future.

SUBMIT YOUR IDEAS NOW!

For details and instructions, visit: <https://daures.green/tenders/>

Submit your proposal on or before **29 September 2023**

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RESEARCH CALL

INNOVATION OPPORTUNITY TO CONVERT FOSSIL GENERATORS AT DAURES

The Daures Green Hydrogen Village is pleased to announce a research and implementation opportunity for students, academics, and institutes interested in advancing the field of green hydrogen in Namibia. This call specifically focuses on research concept notes for the conversion of a 7kVA generator to run on hydrogen or its derivatives.

THE RESEARCH CHALLENGE IS AS FOLLOWS:

Concept notes are invited to investigate the feasibility and implementation of converting a 7kVA generator to operate on green hydrogen or its derivatives as a sustainable and clean fuel source. The research should address the technical aspects, economic viability, and environmental benefits of the conversion process.

Concept note requirements: Applicants are requested to submit a written document that outlines their research approach. The concept note should include the following information:

- 1 Objectives**
Clearly state the research objectives and expected outcomes of the generator conversion project.
- 2 Methodology**
Describe the research methodology, including the steps to be followed for the conversion process. Highlight any innovative approaches or technologies that will be utilized.
- 3 Feasibility Assessment**
Assess the technical feasibility of converting a 7kVA generator to run on hydrogen in Namibia. Identify the necessary modifications or adaptations required and evaluate potential performance enhancements and limitations.
- 4 Economic Analysis**
Conduct an economic analysis to evaluate the cost-effectiveness of the generator conversion. Consider the upfront costs, maintenance, operational expenses, and potential savings or benefits over the generator's lifespan.
- 5 Environmental Impact**
Quantify the environmental benefits of using hydrogen or its derivatives as a fuel source for the converted generator. Assess the reduction in carbon emissions, air pollution, and noise levels compared to traditional fossil fuel-based generators.
- 6 Budget and Resources**
Provide a detailed budget breakdown for the proposed research, including costs for personnel, equipment, materials, data collection and analysis, and any other relevant expenses. Specify the size of the research team and the estimated time required to complete the project. Also indicate if the team would be able to do the generator conversion themselves or would need assistance from a specialized mechanic.

SUBMISSION GUIDELINES:

- Applicants should submit a concept note by email to research@daures.green.
- The deadline for concept note submission is **29th of September 2023 at 17:00 pm CAT**.
- Concept notes should be written in English and should not exceed 4000 words.
- Concept notes should be structured clearly, addressing the required sections mentioned above.

Evaluation and Selection Process: All concept notes will be evaluated based on their relevance to the research challenge, feasibility, scientific quality, and potential impact. The evaluation will be conducted by a panel of experts from the Daures Green Hydrogen Village, University of Namibia as well as the University of Stuttgart. Successful applicants will be invited to submit a detailed research proposal. Funding will be awarded to successful full research proposals.

We look forward to receiving innovative concept notes that will contribute to the development and implementation of hydrogen conversion technologies in Namibia. For any inquiries or clarifications, please contact research@daures.green

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