## Hydrogénies, les trophées de l'hydrogène 2024

**Candidat** 6 EcoPro-future-on-demand 06/05/2024

## 3-Prix de la Mobilité ferrée ou aéronautique ou maritime/fluviale émergente

9-Prix de la Solution technologique

Date d'enregistrement de l'utilisateur ou utilisatrice: 3 mai 2024 11:48 Formulaire: Entry in the 2024 Hydrogen Trophies - ID du formulaire: 930

RGPD appliqué: 3 mai 2024 11:48

Title of the project: EcoPro future on demand

DESCRIPTION OF THE PROJECT: The EcoPro system represents a groundbreaking advancement in engine technology,

focusing on enhancing the combustion process to mitigate emissions at the very core of the engine. CATEGORIES: Rail, Aeronautic, Maritime or Fluvial Transport Prize, Emerging Technological Solution Prize

Périmètre du budget (EN): 52 000€

Name of the funding organization: Department for Transport (DfT) du Royaume-Uni

Date de financement (EN): 01/04/2024

Date / période de réalisation (EN): 01/04/2024 - 30/09/2024 (6 months)

Name of company: Ecomotus

Commercial register number and city: 09519441

Adress Street: The Steam Shop, Pottery Road, Bovey Tracey

Postal code: TQ13 9TZ

City & Country: Devon, United Kingdom

Name and position of general director: Mr Jason Munro

Telephone number: +44 7801 965651

Name and position of person to contact concerning the candidacy: Ms Marlène Moutel

E-mail address: marlene@laminak.energy

Mobile number: +33676179912

Raison sociale des différentes entités partenaires du projet: Ecomotus

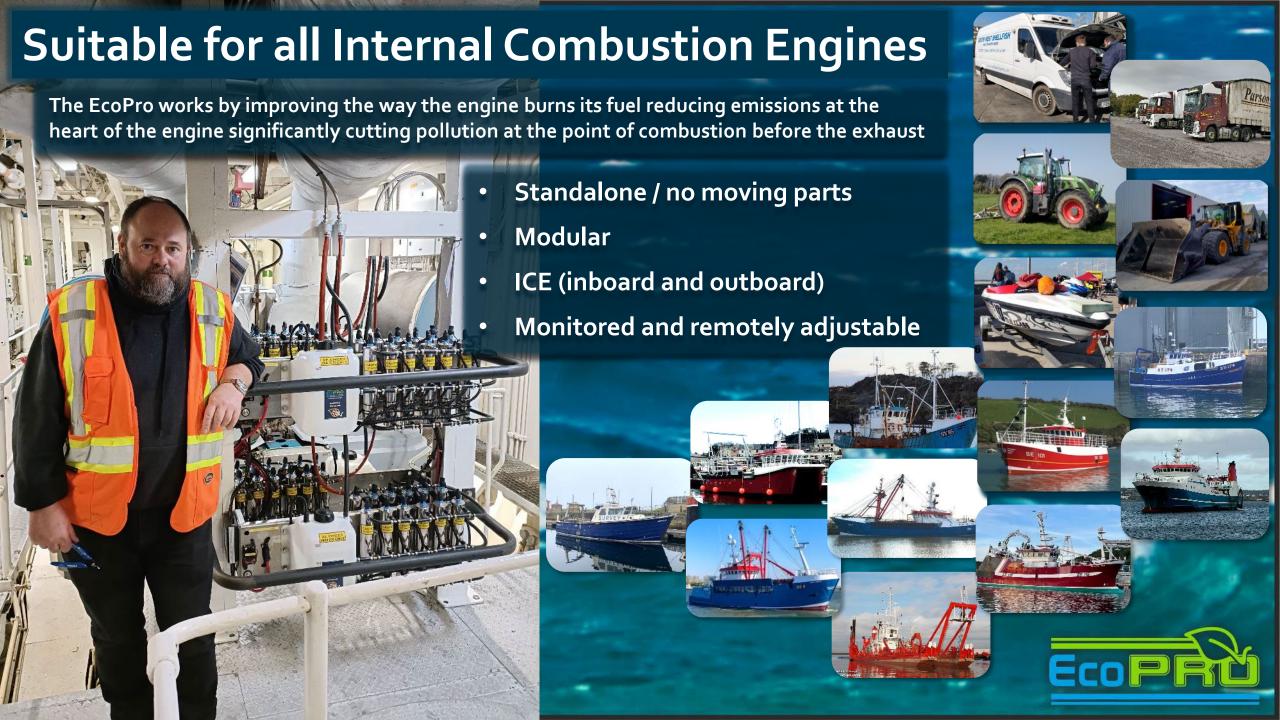
Description: H2T3 – aims to prove that existing Marine engines can achieve Tier III compliance through installation of the EcoPro Catalytic Hydrogen Electrolyser System.

Innovative character: The integration of smart hydrogen into the air/fuel mixture to create an enriched blend marks a pivotal advancement in reducing pollution from the combustion engine. This creates the improved burn process, significant reduction in carbon buildup within the engine and the decrease in harmful emissions expelled through the exhaust system. This innovative approach capitalises on the oxygen atom's valence electrons attraction to the hydrogen atom's valence electrons, reducing the amount of oxygen atoms bonding with nitrogen to form NOx compounds. The result is a more efficient combustion with less pollution.

Technological solutions or new uses proposed: From small engines with a single electrolyser to multiple boards and banks of electrolysers, the EcoPro is modular and standalone and fully scalable according to the requirements of the engine. Multiple banks of electrolysers are each individually fused, powered and controlled through their own smart controllers allowing for precise remote adjustment, monitoring and optimisation.

What are the elements you feel make your project deserve a prize?: In improving the quality of the combustion process, the EcoPro reduces emissions in two ways - Directly reducing the emissions being expelled by the engine Extending the fuel range and reducing the amount of fuel being consumed.

Document attaché: EcoPro Info.pdf



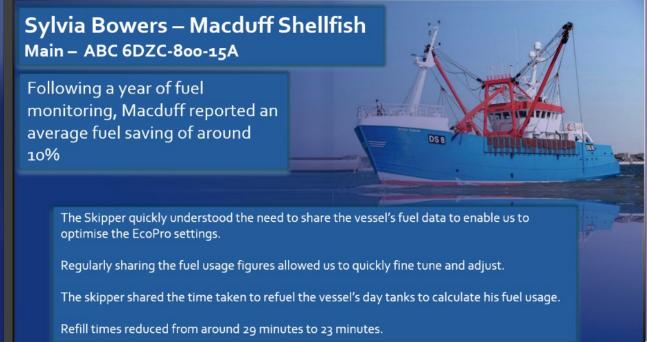




reduced our carbon emissions significantly.

This is a win-win situation for us.

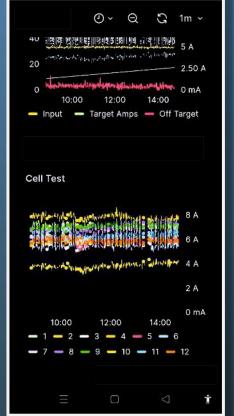








ecomotus



## Remote Monitoring and Optimisation



- Using Wi-Fi we will monitor and adjust your hydrogen settings to optimise your system.
- We will send you a link to your dashboard, so that you can see how your system is working. You will also be able to submit your fuel data each time that you refill.
- We will set up a WhatsApp link with you to enable you to contact us whenever needed.













Funded by Innovate UK



**European Union** European Regional





ELECTROLYSER www.ecomotus.co.uk



Helping the Marine industry to be cleaner and greener