

# Green Pioneer Project

## A Broad Collaboration



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THE POWER OF NOW

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### DESIGN

Engine, Fuel Delivery and Safety Systems 2022

2

### EQUIPMENT

Equipment HAZID/HAZOPs  
December 2022 – January 2023

3

### ENGINE TESTING

Commencement of testing at Hazelmere March 2023

4

### REVALIDATION HAZOP

September 2023

5

### DNV AIP

Approval in Principle  
September 2023

6

### CERTIFICATION

DNV Engine Product Certificate  
September 2023

7

### CONSTRUCTION

Conversion  
July – November 2023

8

### CREW AMMONIA TRAINING

Completion by  
October 2023

9

### COMMISSIONING

Engine, Fuel Delivery and Safety Systems  
March 2024

10

### SEA TRIALS

SRS Flag State and DNV Approvals & Maneuverability trials  
March-April 2024

# Imagining what the world needs



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## Ammonia is Ammonia

Ammonia is not toxic LNG. Behavioral properties different and specific understanding required.

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## Safety by Design

Anticipating, detecting and eliminating risks prior to occurrence. Embedding protection from the get-go.

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## Training & Competency

Competency based training for specific skills development / ER and also general awareness training

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## Shared Safety

Sharing contextual experience to the wider industry

The Green Pioneer in Dubai for COP28