

Creed Hydrogen Skills & Innovation Centre

A unique Public, Private and Academic Sector partnership accelerating the development of the green hydrogen sector in the Outer Hebrides

ICNZ Introduction 22 July 2024



**COMHAIRLE
— NAN —
EILEAN SIAR**



**NORTH, WEST AND HEBRIDES
A TUATH, AN IAR IS INNSE GALL**

PlusZero⁺
Making Hydrogen Happen

Background – Unique combination of partner experience



CnES Outer Hebrides Local Energy Hub facility at Creed



UHI's Lews Castle College developed first SQA certified hydrogen technician training courses



Harris based PlusZero is a leader in deployment of Hydrogen based technology

The Project – Key Objectives

Commercial Production, Skills and R&D

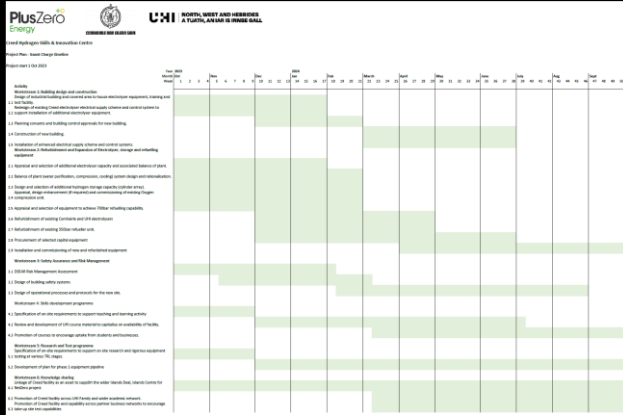
1. Create a reliable and commercially viable new green hydrogen and oxygen production facility that can support and encourage the adoption of hydrogen application technology on the Island.
2. Create a hands-on training and learning environment that supports UHI Lews Castle College deliver its SQA certified Hydrogen Technician Training courses:
 - start to build skills in the local workforce and supply chain to support future expansion of green hydrogen production.
3. Create a facility that will support the field testing of new prototype electrolyser technology and allow early access to next generation equipment.
4. Create a facility that will add value and learning for the wider ICNZ programme

The Project – Key Elements



- £2.2m partnership project between Western Isles Council, PlusZero and UHI North, West and Hebrides.
- £1.1m capital grant (50% of costs) awarded in May23 from Scottish Government Emerging Energy Technology Fund.
- New Council owned building at Creed to house H2 production equipment and facilities for UHI “hands on” technician training, equipment testing and research.
- New and refurbished equipment increases H2 production from 12kg/day to approx 120kg/day (and 1000kg of O2/day).
- CnES will own new building, and PlusZero Energy will own H₂ and O₂ production equipment and run plant as commercial operation.

The Project – Funding & Timescale



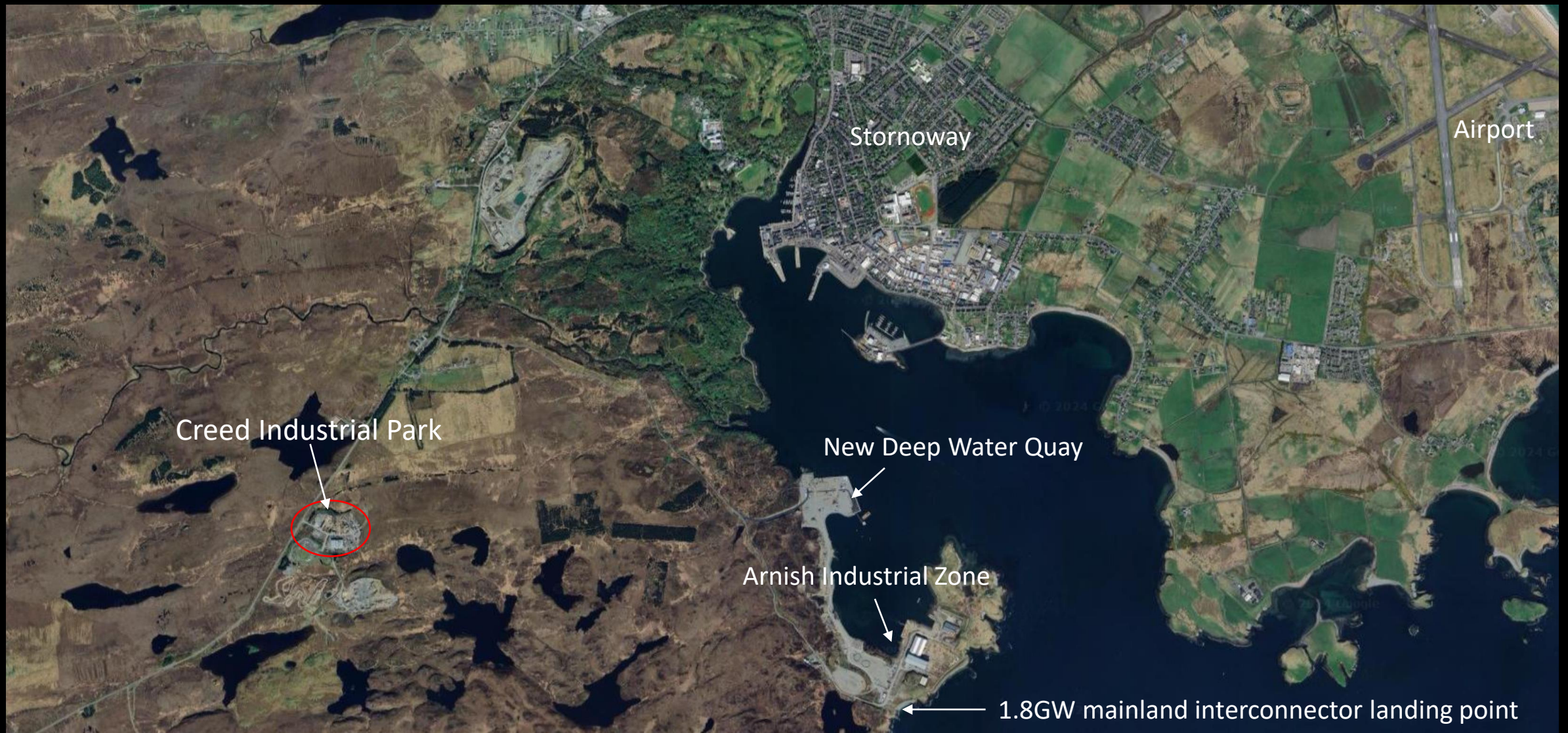
Funding

- £1.135m Capital Grant from Scottish Government EETF
- Partner match funding of:
 - CnES: £602k related to building and refurbishment of existing equipment – ICNZ contributing £464k towards this
 - PlusZero: £533k for new electrolyzers and associated equipment

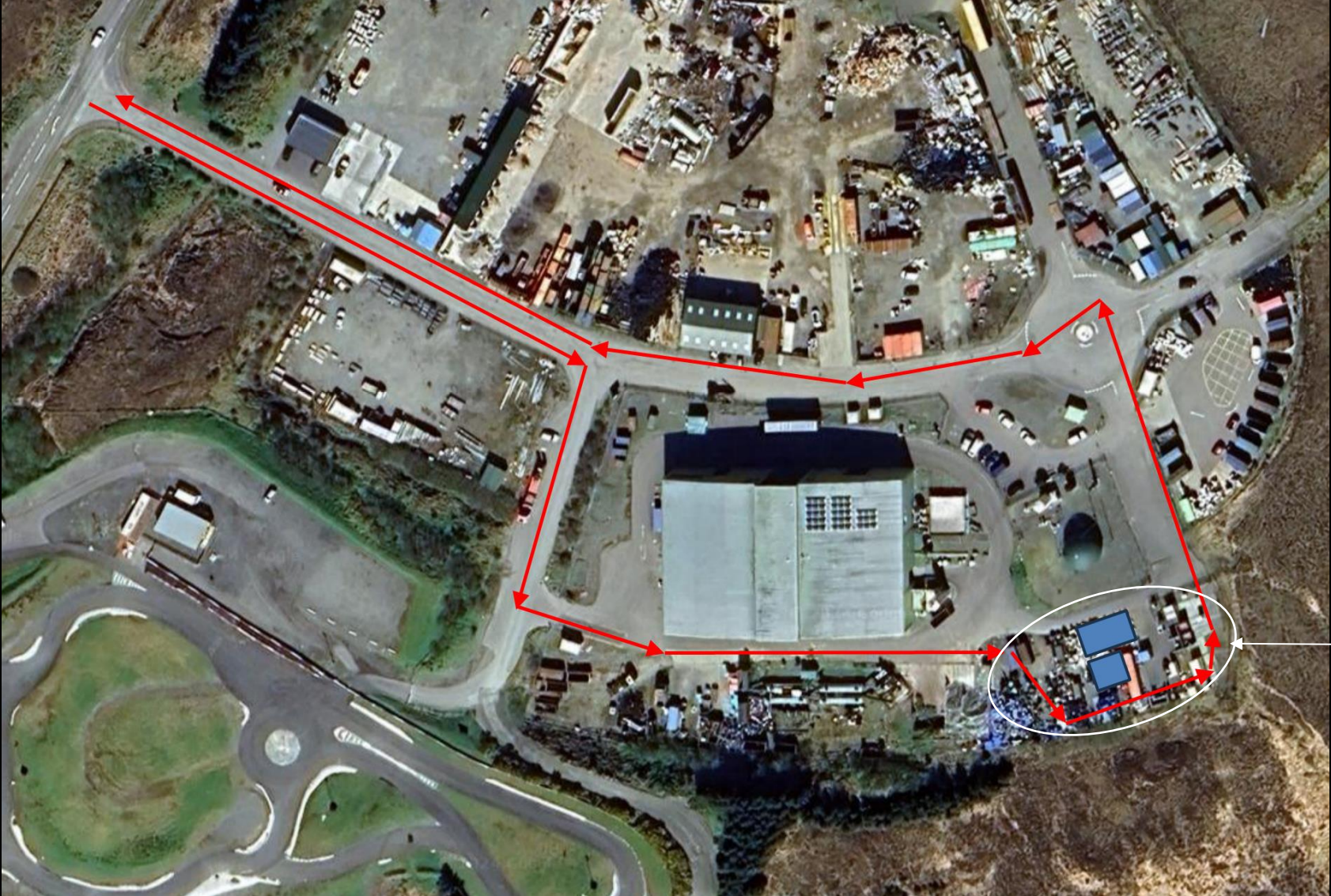
TimeScale

- Project commenced Oct 2023
- Target completion – by end March 2025

The Project – Location

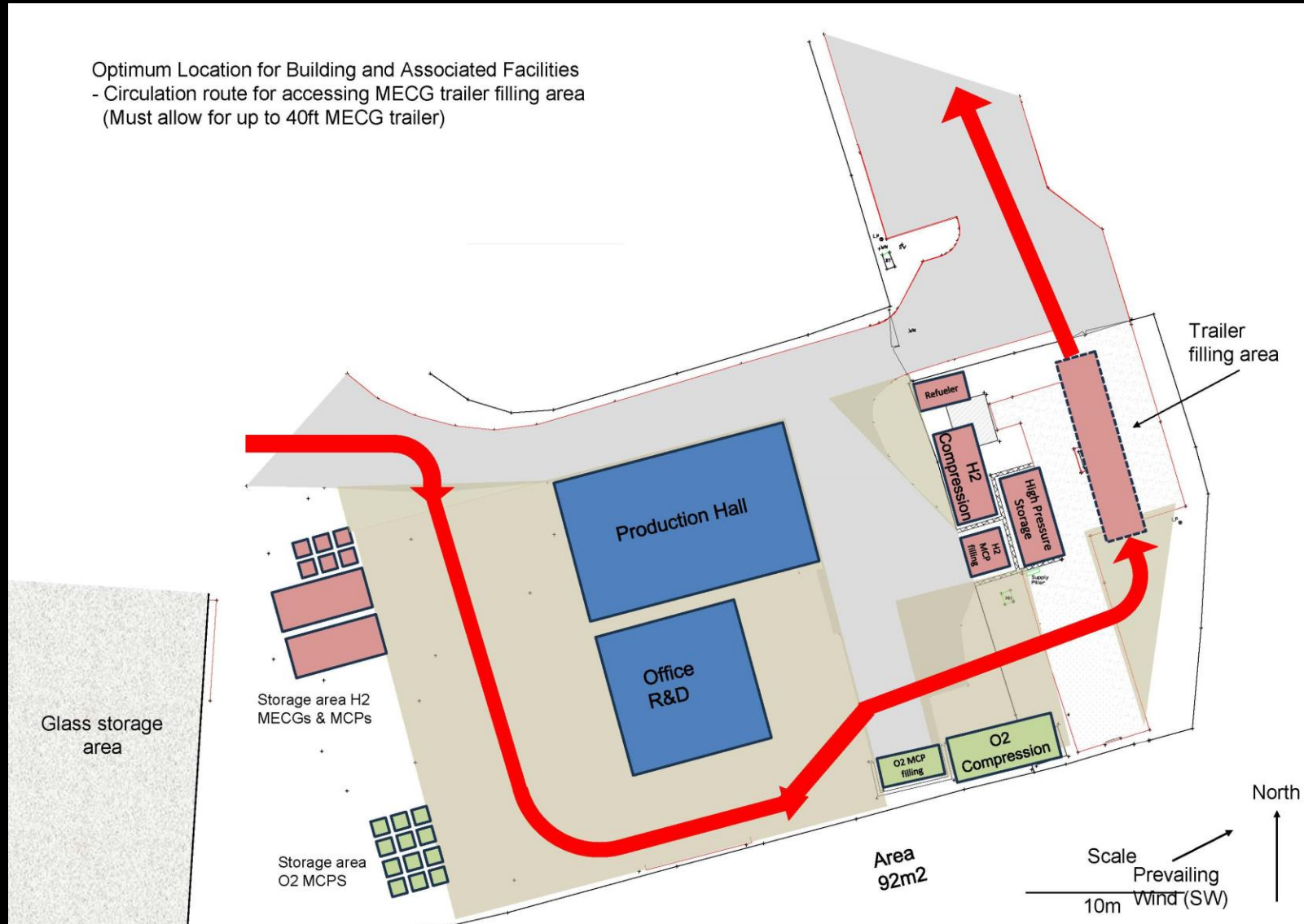


The Project – Location

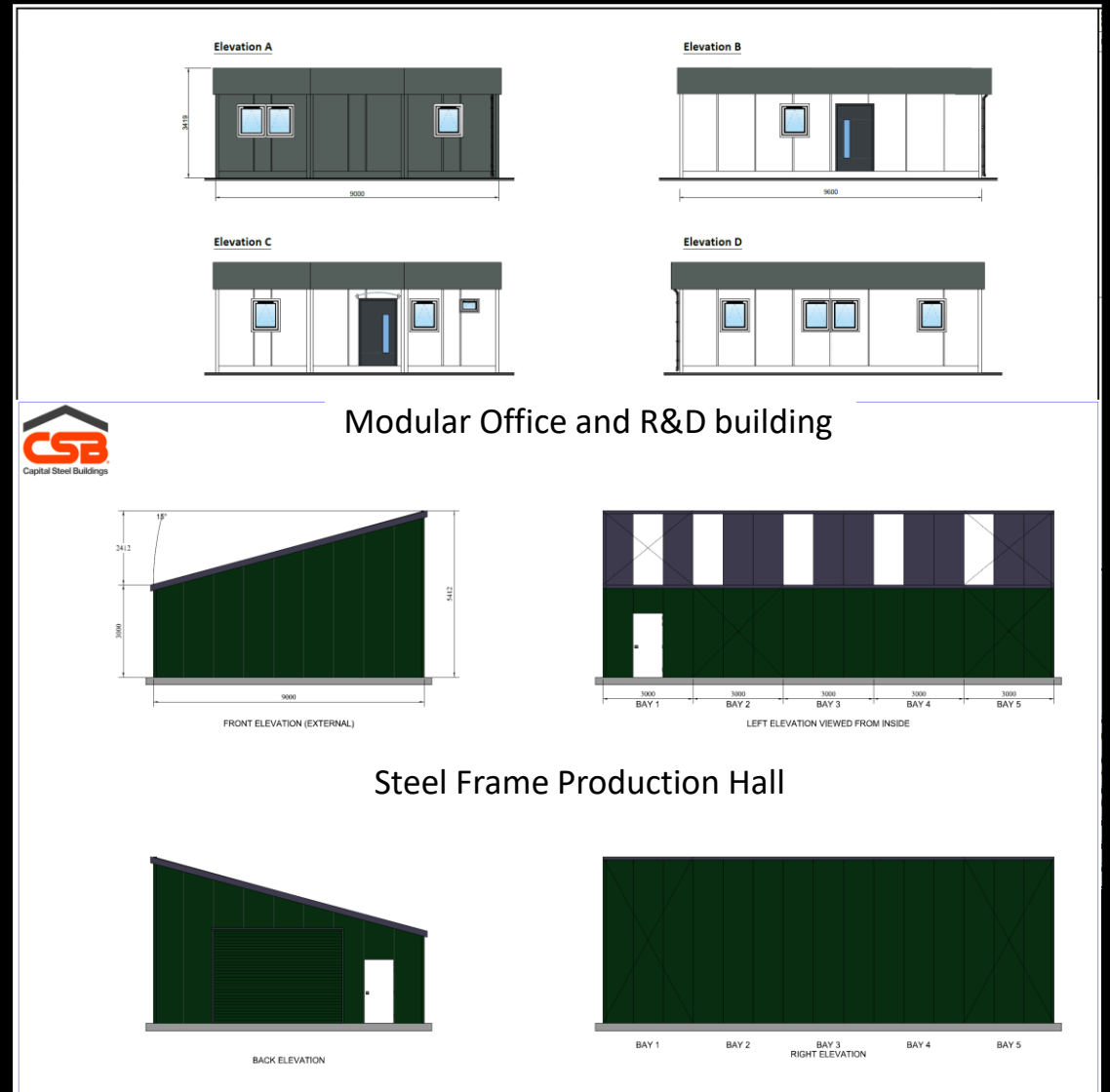
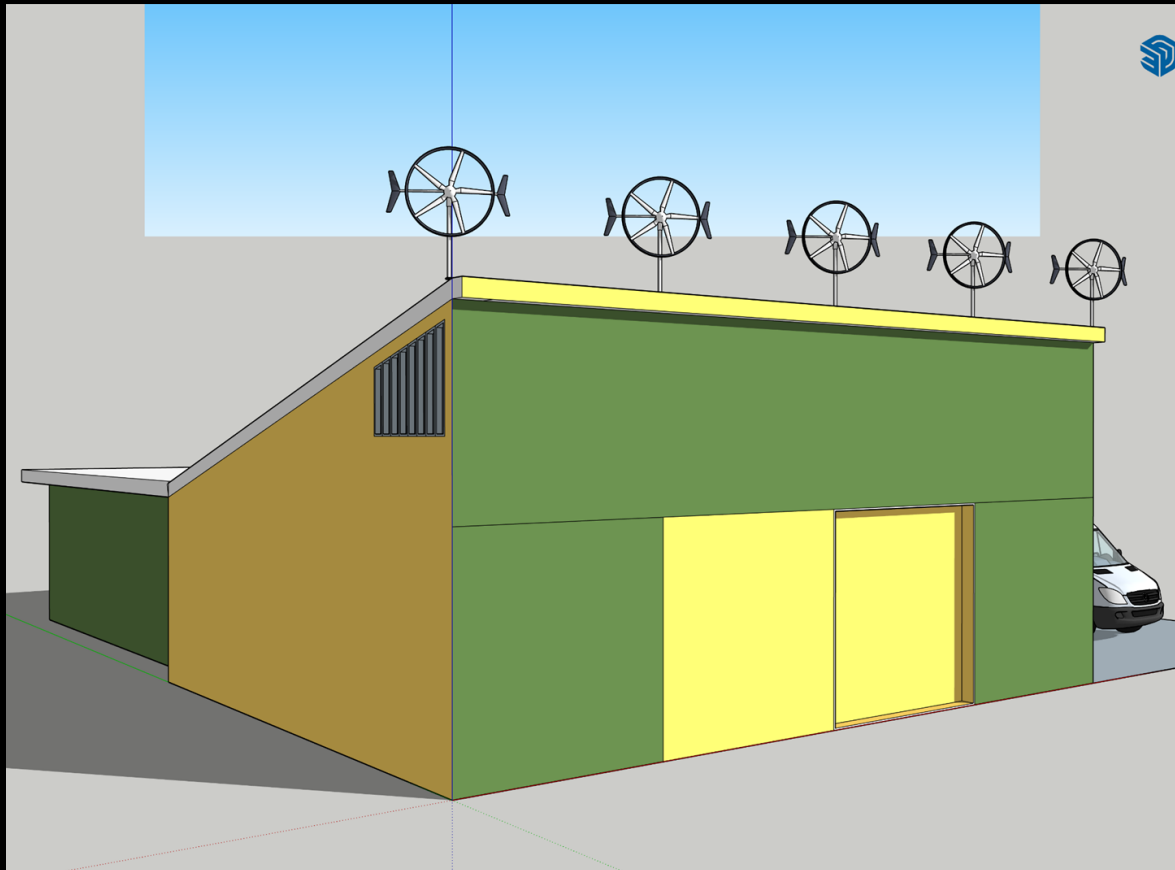


CHSIC

The Project – Site Layout



The Project – The building



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Questions & Discussion



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