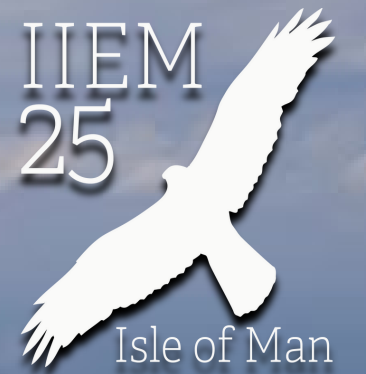


Lundy Renewable Energy Project

Derek Green, Lundy Company





M.S. Oldenburg – Lundy's passenger and supply ship



Lundy: Designations & Wildlife



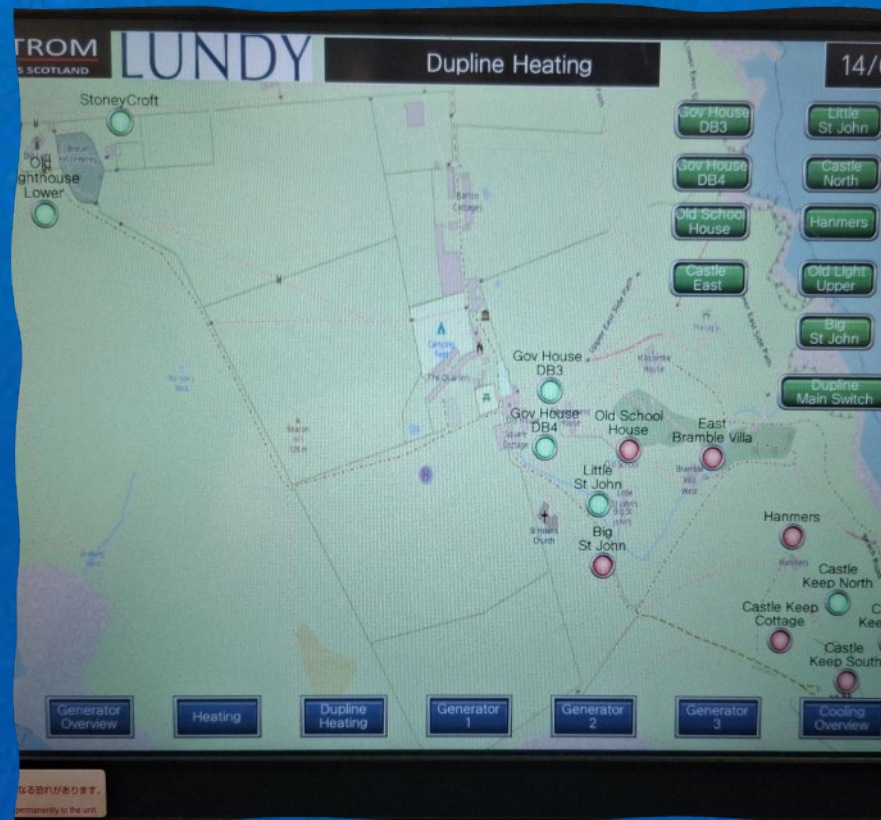
- SSSI
- MPA: (MCZ, SAC & NTZ)
- 44 Scheduled Monuments
- Heritage Coast
- UNESCO Biosphere
- Dark Sky Discovery Site
- 40,000 nesting seabirds
- 200 Atlantic Grey Seals
- 285 Soay Sheep
- 180 Sika Deer
- 22 Feral Goats
- Endemic Lundy Cabbage



Lundy's reliance on diesel fuel

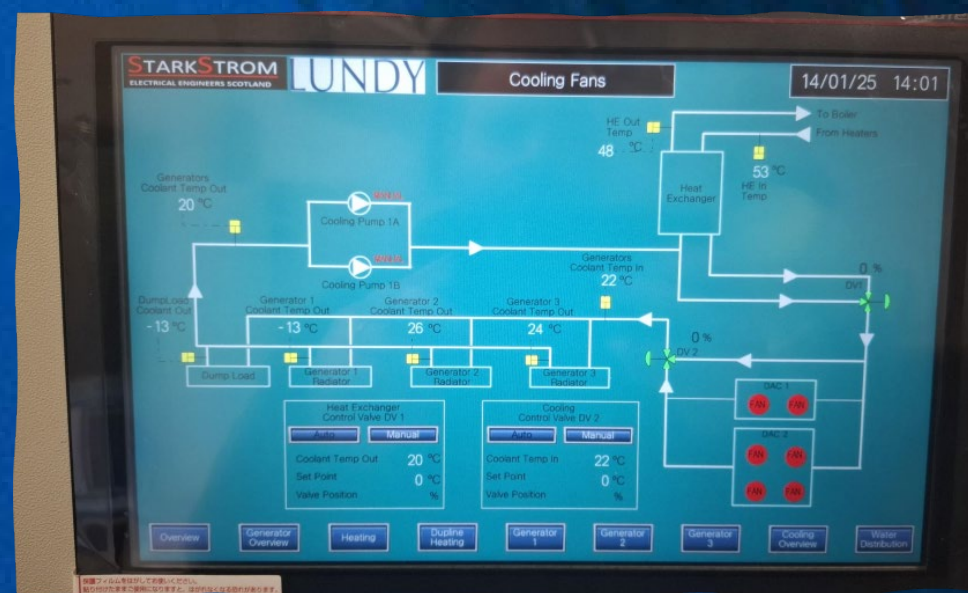
Approximately 160,000 litres per year transported to the Island via the MS Oldenburg





Efficiency improvements before renewables

- Modern controls
- Improved Monitoring / visibility
- Ensuring system is fit for the future
- Programmable Logic Controls (PLC) (brain!) / HMI Screens



Renewables Project - Indicative Programme

Phase 1 (November 2024 – December 2025) (already funded)

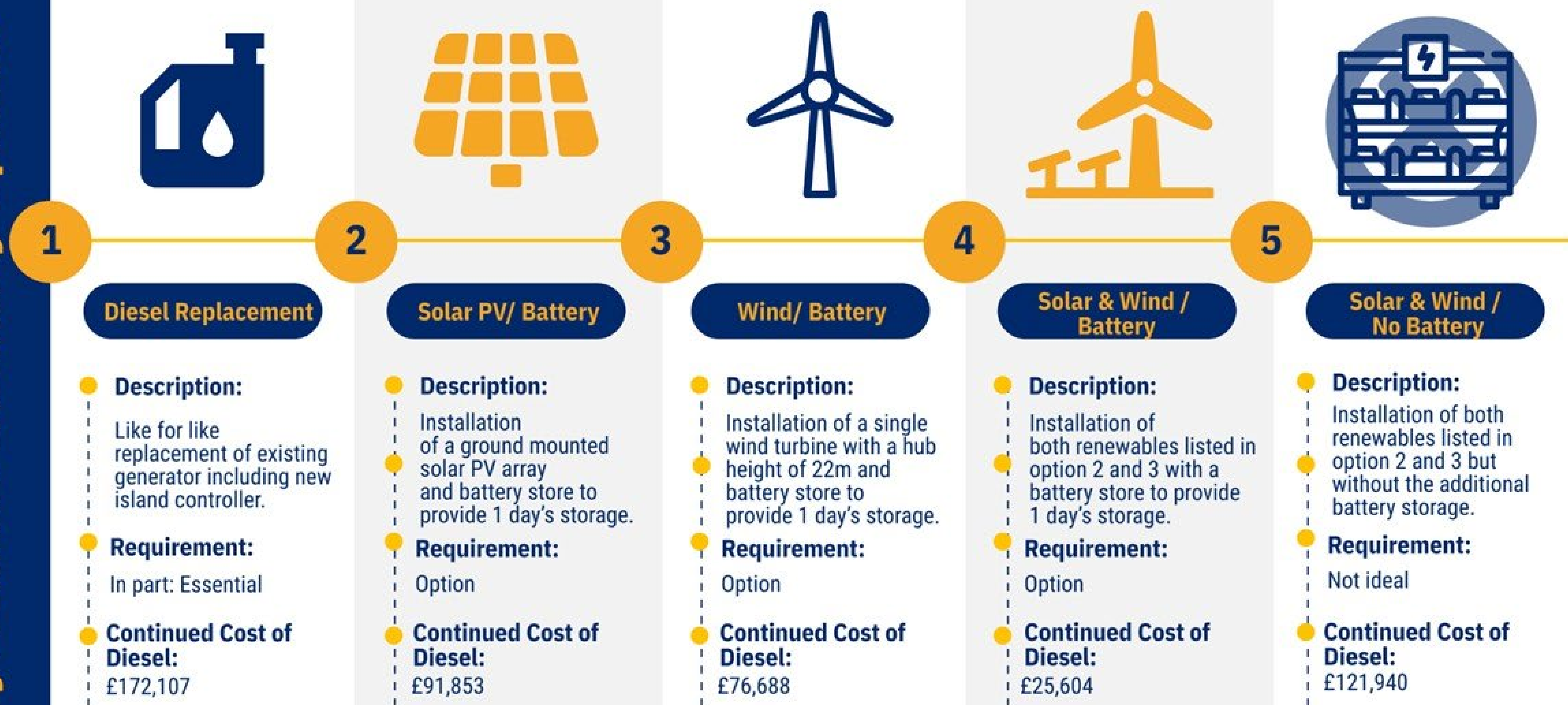
- Efficiency works
- Control upgrades (efficiencies)
- Heating upgrades / pilots (Storage heaters & ASHP)
- Monitoring (remote access / enhanced visibility)
- Pre consultation & planning application on new energy system for Lundy

Phase 2 (November 2025 – October 2026)

- Tender new energy system works (December 2025)
- Approval of funding and new energy system (Mar 2026)
- Commencement of energy system installation (April 2026)
- Commissioning of new energy system (October 2026)



Lundy Island Feasibility Options



Phase 2 – renewables / microgrid
Ambition to reduce diesel use by 85% or more

Lundy's previous aerogenerator

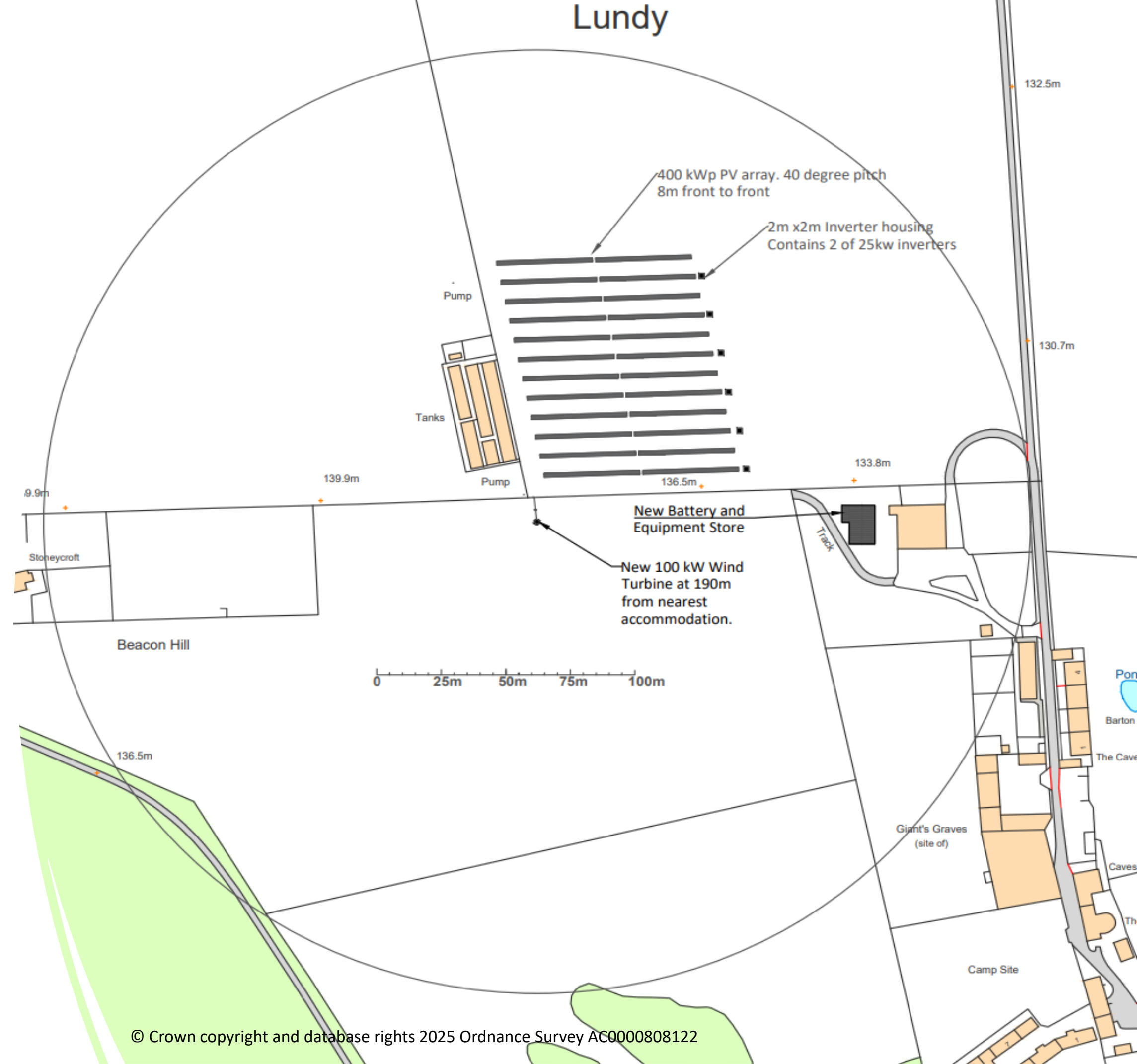


Similar machine (height / power / rotor) to the one considered for Lundy (tiltable)



Indicative renewable energy specifications

- **Wind** – 100 kW (21M hub height 20.7M rotor diameter)
- **Solar** – 400 kWp - Approximately 2.5 M in height / 8 M spacing. 75 x 90 M (similar area 100 x 64M senior football pitch)
- **Battery store** – 1 MWh (within container or purpose-built unit) - lithium iron phosphate
- **Thermal accumulators** (buffer vessels)



Proposed new wind turbine - visualisation



Preferred location
of solar array

Alternative field for
PV array

Inverter shed & battery store
to be constructed within
curtilage of farm buildings

Generator
shed
(existing)

Previous location of
wind turbine and
preferred location for
new NPS 100 turbine

Second option for new
wind turbine, depending
on noise survey data

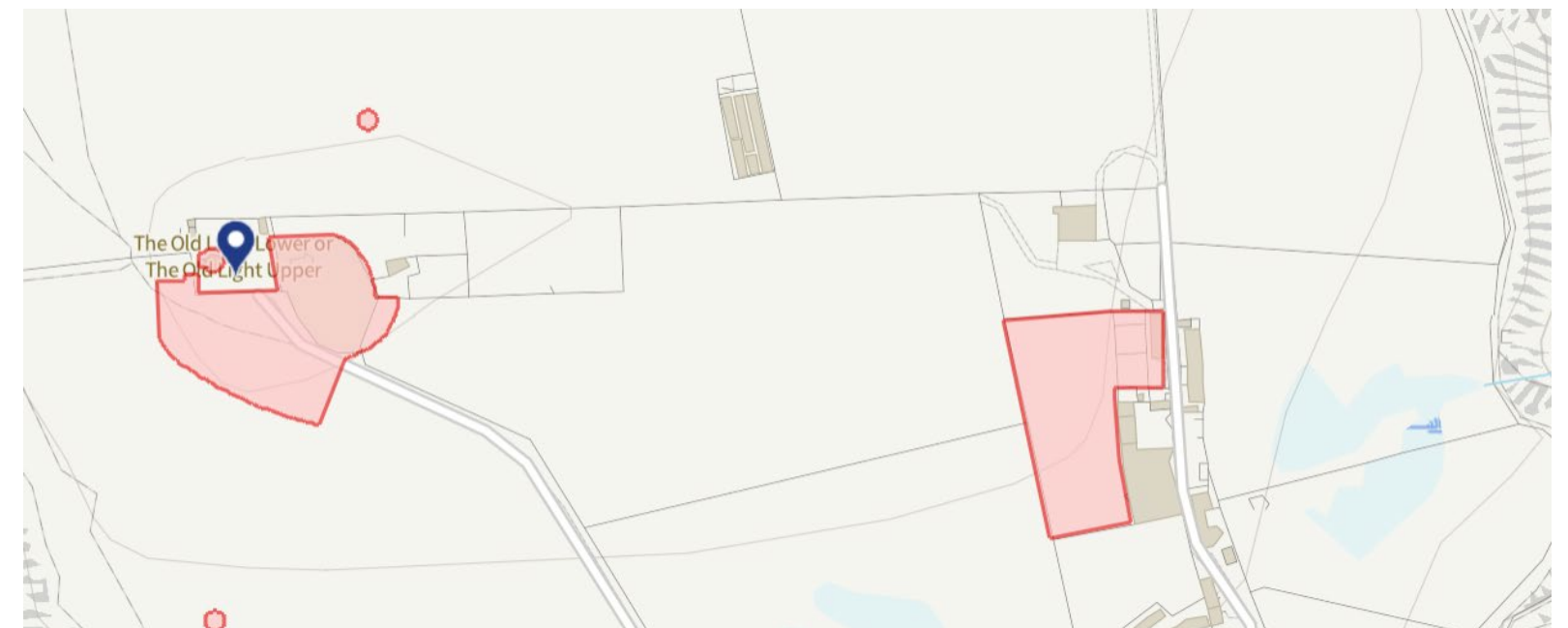
Photograph from 'Old Light' looking East

Surveys & Consultations - 2025

Lots of surveys and conversations to date.

- Outline (technical) design for planning (screening)
- Archaeology / HIA
- Noise assessment
- Landscape & Visual Impact Assessment (LVIA)
- Glint and glare
- Telecoms
- Ecology (bats / flora)
- National Air Traffic Controls (NATS)
- Ornithology surveys (VP / nocturnal)
- Transport & access
- Biodiversity Net Gain (BNG) assessment
- Design and access statement
- Review of external documents
- Community consultation
- Stewardship / SFI impacts on farm operations

**We love our Manx
Shearwaters too !**





Please get in touch and
let us know your
thoughts

Thank you!

Website -

<https://www.landmarktrust.org.uk/lundyisland/discovering-lundy/renewable-energy-project/>

Email - REP@Lundyisland.co.uk

*Survey results and visual representations will be added to the website once they are available.

The
Landmark
Trust