



AIRLANDER RETHINK THE SKIES

Airlander concept of operations for the

HIGHLANDS & ISLANDS ENVIRONMENT

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BLUE SKY THINKING

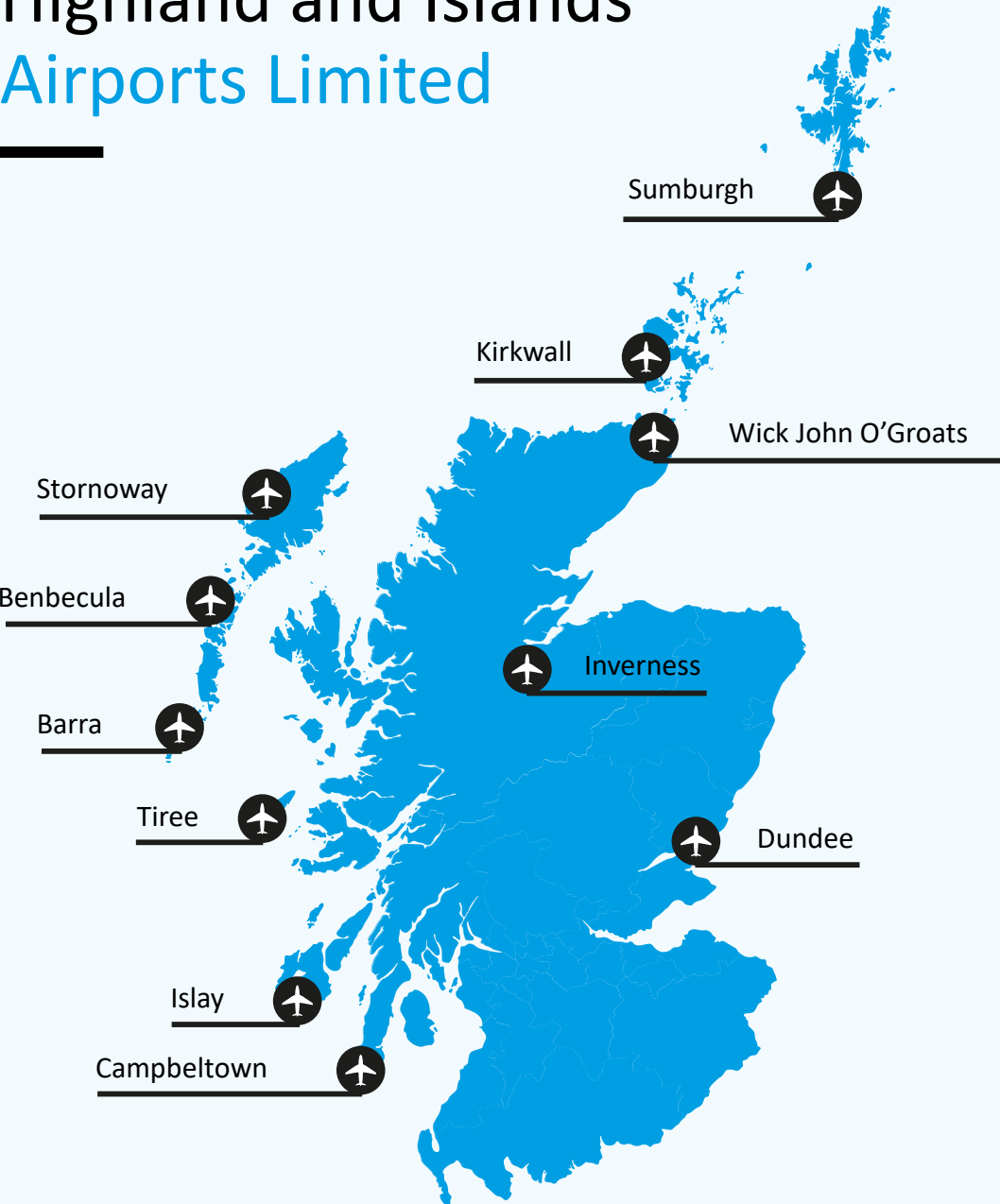
Our
vision

AIRLANDER
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To be the future
of zero carbon
aviation



Highland and Islands Airports Limited



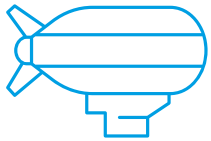
Orkney Council and Hi Trans

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Compelling economics

Limitless opportunities



Public transport
in the region is
complex, involving
sea and air travel



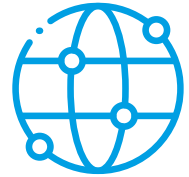
Airlander can
both complement
existing networks and
create new
and exciting
opportunities



By creating better
connectivity to the
Western Isles, Orkney
and Shetland,
Airlander can
reinvigorate
communities
and stimulate
commercial activity

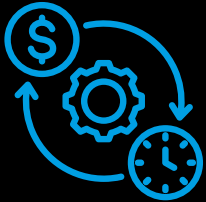


Airlander can also
attract new visitors
motivated by the
appeal of more
sustainable tourism



Upon proof of
concept, the global
applications
are countless

Lower fixed costs. Lower variable costs.



On the ground or in the air, Airlander delivers efficiency and savings.



01 24% lower cost per Available Seat Mile than twin regional jet

02 Simpler design means less maintenance at lower cost

03 Significant savings on infrastructure costs

- Ability to operate into a variety of sites with minimal infrastructure modification

04 Reduced operational complexity

05 A low-risk path to decarbonisation

- All electric variant will offer a zero-carbon emission solution for the region

How Airlander helps protect our planet



From **A** to **B**
with less **CO²**

- 01** Aviation is critical both to society and the global economy

- 02** The IATA has committed to net zero by 2050, despite predictions of a consistent increase in demand

- 03** Reconciling these competing objectives demands that incremental improvements give way to a radical, visionary strategies

- 04** This must encompass both aircraft themselves, and the infrastructure supporting them

- 05** While helping safeguard the planet's future

Airlander 10

There's revolution in the air.

Unrestricted by convention or precedent, Airlander is designed without compromise from the ground up

Blending airship buoyancy with the aerodynamic lift of aircraft

Delivering a memorable, efficient flying experience, and inspiring new and creative use cases

HAV is a leading investor in net zero technologies

We are working closely with regulators to ensure compliance and unrivalled safety

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Airlander will
enter service from 2027

An instant icon of the skies

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The innovative Airlander 10 design makes it **distinct, recognisable, and memorable**

It also extremely versatile

- ✓ Highly manoeuvrable at take-off and landing
- ✓ Does not require a runway
- ✓ Can operate both from land and water

Infrastructure

Airlander integrates efficiently and cost-effectively into the existing environment

The need for minimal specialised infrastructure is a central design principle

- ✓ Does not require large-paved runways
- ✓ Can operate on small islands, atolls, water and ice
- ✓ Cleaning, catering and refuelling can be provided by existing services
- ✓ Airlander taxis under its own power



End-to-end passenger experience is
**simple, efficient, and
comparable to existing
air travel**

Airlanders's operations in the Highlands and Islands



A detailed study has been undertaken of seven sites to assess compatibility



Validating the previous desktop survey, Airlander is capable of operating effectively from all of the locations surveyed



Local teams assessed an optimal combination of 30-40 passengers and 6,000kg+ of freight



Five sites will be land-based, with Barra and Scapa Bay water-based



Airlanders's operations in the Highlands and Islands



Local weather impacts all transport operators



Overall, Airlander is expected to be operational the overwhelming majority of the time, delivering a reliable and trusted service



Adaptation of existing land-based infrastructure will be minimal:

- Flush runway lights
- Runway/taxiway signage capable of retraction
- Drainage modification at Inverness

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So, why Airlander? And why now?



- 01** Complements established services

- 02** Drives economic growth
Delivers brand new services, and associated commercial opportunities

- 03** Drives sustainable tourism

- 04** Supports Scottish renewables sector

- 05** Outstanding economics

- 06** Minimal environmental impact

- 07** Versatile and resilient

- 08** Operational simplicity



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THANK YOU
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