

# ECOSYSTEM SERVICES AND BIODIVERSITY NET GAIN GOALS

To meet ambitious environmental targets, National Grid needed a smarter way to understand, manage, and report on the biodiversity value of its vast landholding across the UK. With over a thousand sites ranging from substations to telecoms assets, the organisation sought a data-led approach to assess habitat condition and support long-term sustainability planning.



Screenshot from the BNGAI™ platform

## SOLUTION

AiDASH deployed its Intelligent Sustainability Management System, the precursor to **BNGAI™**, across National Grid’s UK-wide estate.

The platform enabled automated biodiversity assessments, sustainability planning, delivery tracking, and ESG reporting—all tailored to UK environmental standards, including Defra<sup>1</sup> and Natural England requirements.

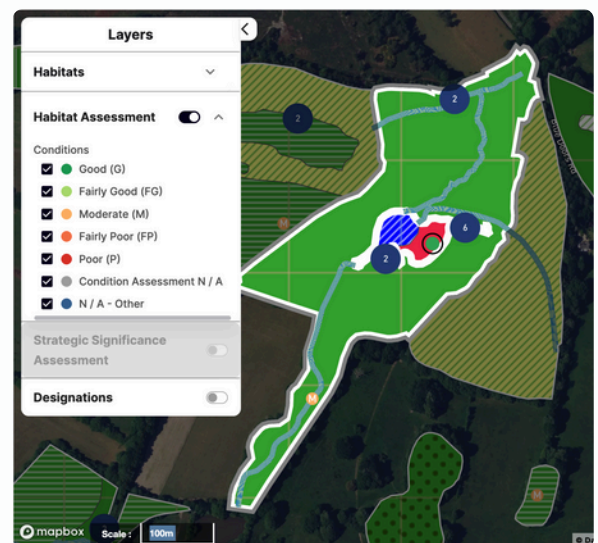
The solution has delivered **15–100x cost savings**, while improving consistency and quality of measurement across diverse site types and geographies.



## CHALLENGE

National Grid has committed to improving ecosystem services by 10–14% across all the land it owns by 2030.

But with over 1,300 locations spread across England, Scotland, and Wales, conventional site-based surveying methods—costing £750–£5,000 per site—were unscalable and inefficient. A new approach was needed to support sustainability planning and delivery monitoring at speed and scale.



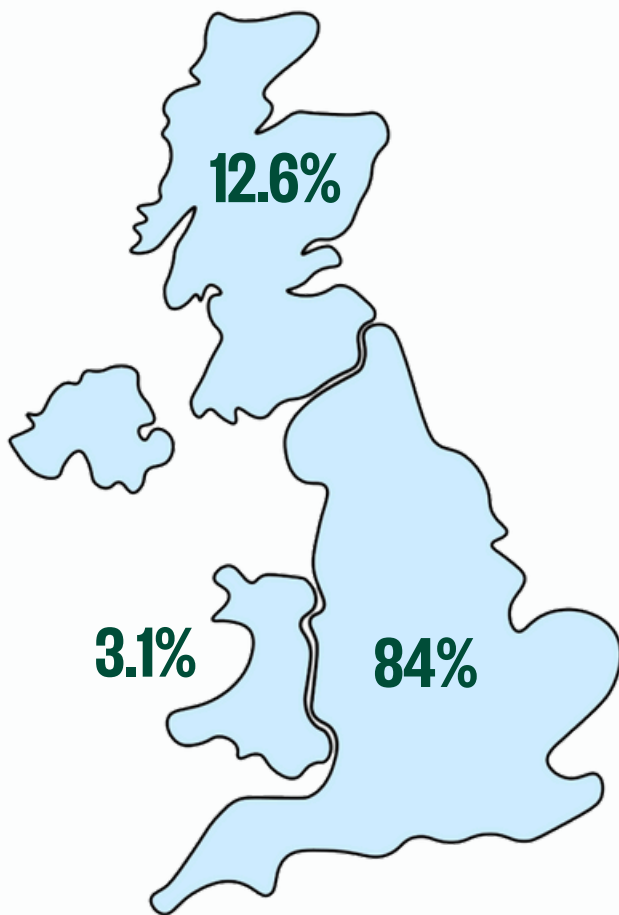
<sup>1</sup> Defra’s Statutory Biodiversity Metric Tools and Guides are available here: <https://www.gov.uk/government/publications/statutory-biodiversity-metrictools-and-guides>

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## SERVICES PROVIDED

- UK-wide habitat classification for over **1,300 unique sites**
- Portfolio-wide sustainability reporting and habitat baselining
- **Integration with Defra and Natural England** compliance frameworks
- Configurable support for different regions and business units
- **Ongoing ESG monitoring** for strategic planning and reporting
- Dedicated analytics and dashboards for NG and NGT portfolios



## COVERAGE BY COUNTRY

- **England** – 84% of total area
  - (3,272 ha across 1,127 sites)
- **Scotland** – 12.6% of total area
  - (490 ha across 131 sites)
- **Wales** – 3.1% of total area
  - (121 ha across 83 sites)

While England holds the majority of the land area, the system was deployed UK-wide, delivering consistent, verifiable insights across all three nations.

## PORTFOLIO BREAKDOWN

Across the UK, the combined National Grid and National Grid Telecoms (NGT) estate includes:

**3,884 HA**  
of habitat area

**1341**  
unique sites

## KEY BENEFITS

- Scalable, automated assessments across **3,800+ hectares**
- **Up to 100x** cost reduction compared to conventional surveys
- **Supports regional targets** across England, Scotland, and Wales
- **Verifiable outputs** for internal and regulatory reporting
- **Fully repeatable** for long-term ESG and biodiversity tracking
- **Comprehensive platform** that empowers data-driven decisions

**Streamline ESG & BNG compliance with BNGAI™**



[Get a demo](#)

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