REACT

Rapid Evaluation Areal Connection Tool

Digital Spatial Intelligence for
UK Energy Developers

Introducing REACT

The UK grid is changing rapidly. Developers face long queues, volatile timelines, limited transparency, and uncertainty driven by Connection Reform and CP30. With 700+ GW of projects competing for around 75 GW of estimated available network capacity, gaining clarity early is essential.

REACT provides spatially driven insights into where projects stand the best chance of connecting - supporting early feasibility assessments, reducing planning risk, and enabling confident decision-making in a reforming system.

Designed for energy developers. Built for the realities of GB connections.

What REACT Delivers:

Early spatial insight:
- Reveal where projects have potential viability before formal applications.

Constraint visibility:
- Understand cumulative capacity, congestion, and connection sequencing.

Reform-ready tools:
- Designed to support CP30 and the evolving Connection Reform framework.

Developer-centered intelligence:
- Crisp, intuitive visualisations that reveal network pinch-points, opportunities, and risks.

The result:
- Reduced uncertainty, smarter site selection and stronger evidence for investment decisions.

Built in collaboration with SSEN-Transmission and other partners, funded by the Ofgem Strategic Innovation Fund

REACT helps developers move faster, prioritise with confidence, and reduce project planning uncertainty.

What is REACT?

A spatial intelligence platform shaped by UK network operators. Created through a multi-year collaboration with SSEN Transmission and shaped by National Grid and SGN. REACT addresses core challenges across the sector:

A system-wide planning model:

- Power generation, storage, and demand
- Circuit details, and substation capacity
- Local constraints, land use, and developer success
- Environmental and siting limitations

Together, these insights form the foundation of the REACT spatial intelligence platform.
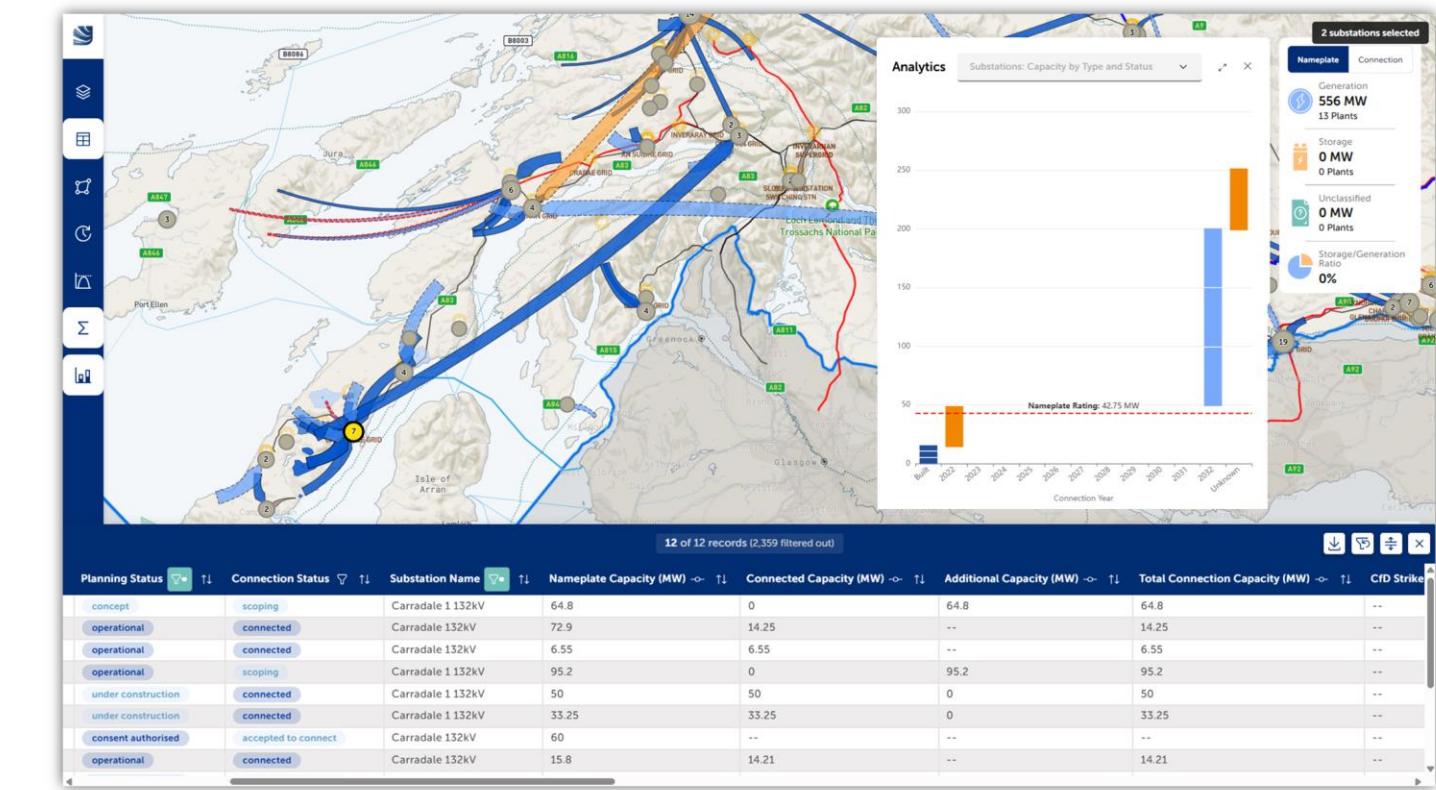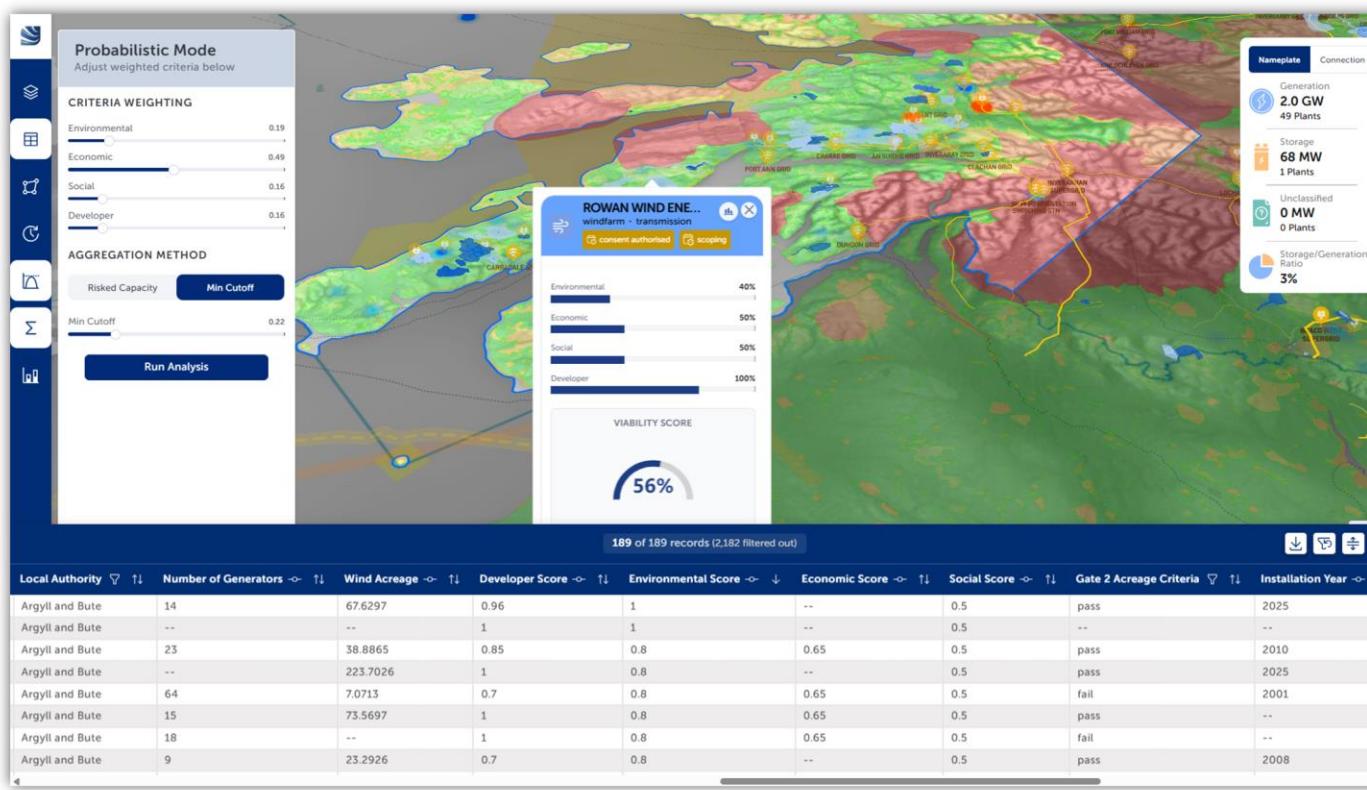
REACT brings system-wide complexity into a single, developer-friendly view that streamlines early strategic assessment.

Where does REACT data come from?

Open-Source Data Inputs	Data Engine	Output

Open-Source Data Inputs

National System Data
Core datasets for GB-wide system visibility

NESO
National Energy
System Operator

Department for
Energy Security
& Net Zero

- NESO System Information
- NESO TEC Register
- DESNZ Data

Network Operating Data
Live and planned connection intelligence

- Embedded Capacity Registers
- TO & DNO Data

Other Local and Open Data
Ground-truth and planning context

- Local Planning Authorities
- Other Open Source Datasets

Data Engine

- Data Aggregation
- Quality Check
- Cross Validation

Output

- Instant visibility of constraints, capacity, and competition
- Unified, validated connection intelligence across Great Britain

REACT

How REACT Supports Project Developers and Why it Matters

What REACT Does

System Wide Thinking

Integrated electricity, gas, land use & constraints.

Early Stage Assessment

Understand viability before committing resources.

Trusted Data Frameworks

Accessible, high-quality, interoperable data.

Interactive Spatial Modelling

Visualise circuits, constraints, flows & opportunities.

How it Benefits Developers

- ✓ **Pinpoint the strongest connection opportunities**

- ✓ **Identify optimal connection points faster**

- ✓ **Understand constraints & competition instantly**

- ✓ **Make smarter early site decisions**

- ✓ **Build stronger, evidence-backed applications**

All delivered through a single, unified spatial intelligence platform.

Join REACT as a Development Partner

AVAILABLE NOW

By becoming a Development Partner your organisation will gain:

- ✔ Early access to the GB-wide REACT tool
- ✔ Direct influence over future development features and analytics
- ✔ Discounted pricing for early sign-up*
- ✔ Options for single-user or enterprise-level access options*
- ✔ Annual access & maintenance plan*

*details under review

How to get started with REACT

- ✔ Contact us to request a demo of full platformer discuss early adopter access
- ✔ Complete our **Expression of Interest form**

REACT GB – Early Adopter &
Developer Registrations and
Insights Survey
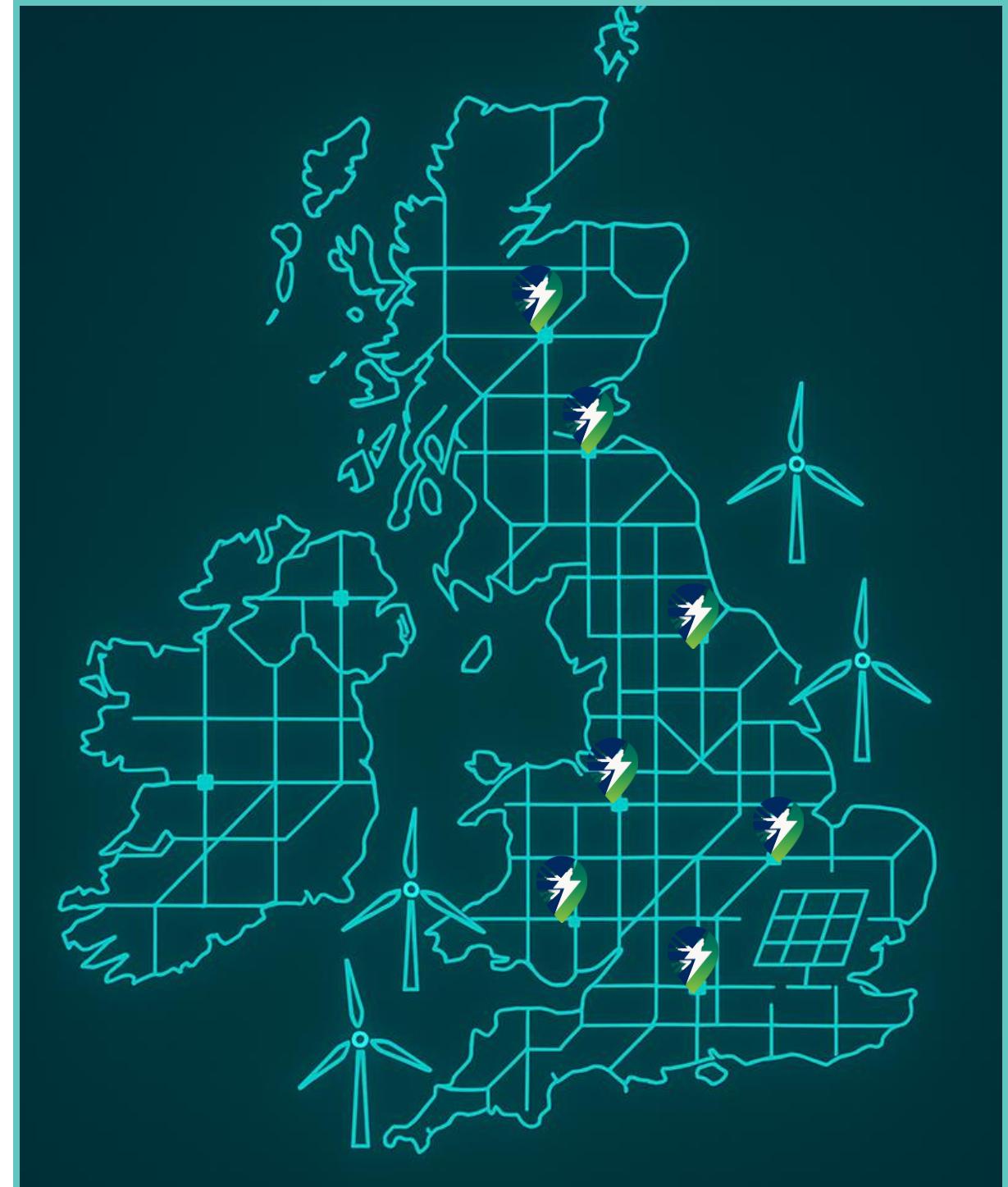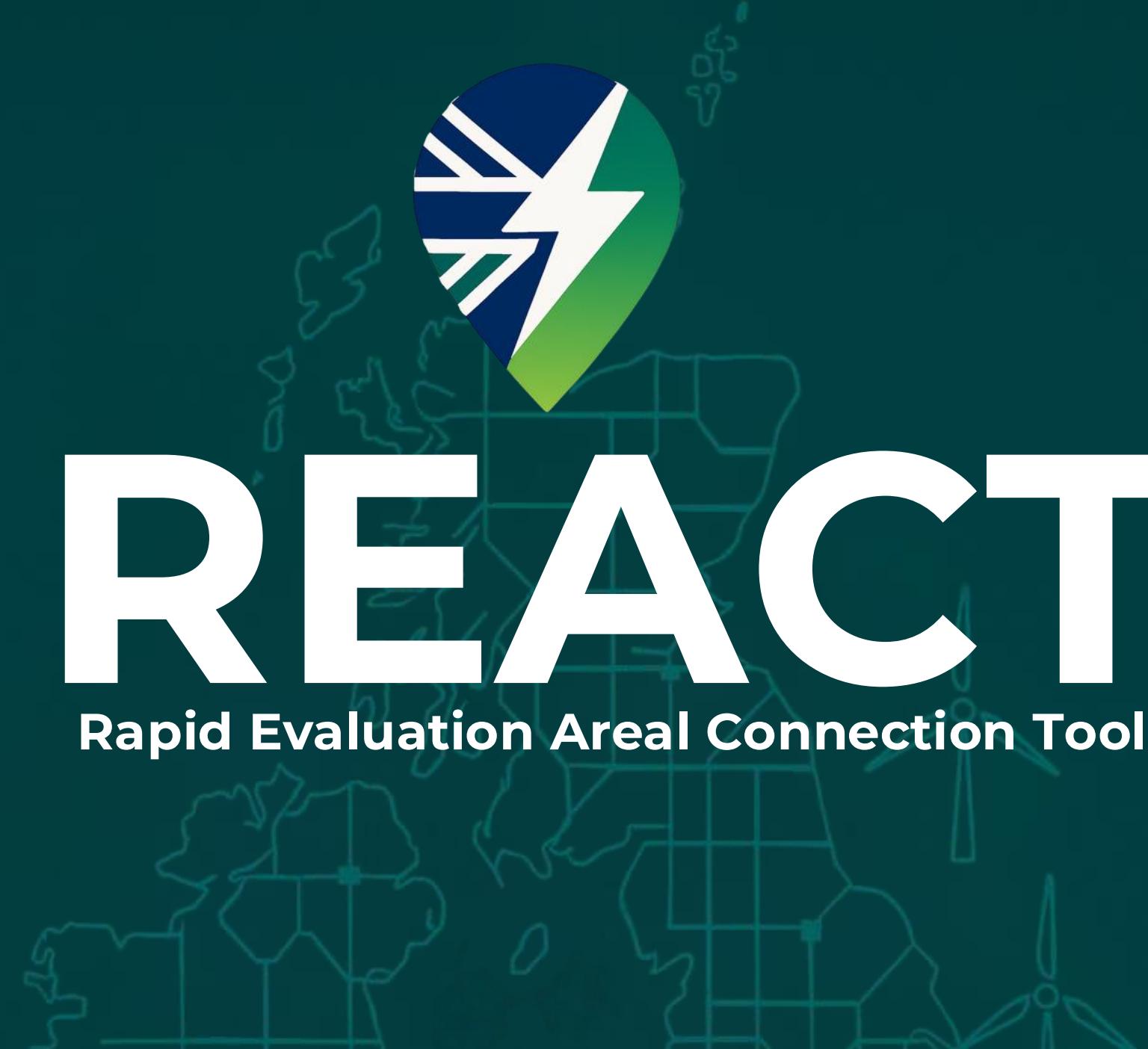
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olsights®

Olsights develops advanced spatial analytics and digital planning tools that help energy developers and network operators make faster, data-driven decisions. Through its intuitive mapping platform, Olsights visualises infrastructure, constraints, and opportunities to support more effective project planning and accelerate the delivery of clean energy systems. With a focus on clarity, usability, and real-world insight, Olsights enables organisations to navigate the energy transition with confidence.

olsights.com

MapStand®
LOCATION INTELLIGENCE

MapStand is a geospatial intelligence company providing clear, real-time visibility of global energy infrastructure and market activity. Its digital mapping platform brings together high-quality spatial data and expert curation, helping developers, operators, and policymakers make faster, better-informed decisions. By simplifying complex energy data, MapStand supports more effective planning and accelerates the transition to a net-zero energy system.

MapStand.com