

DECODE

InnovateUK is supporting industry and manufacturers in Corby, North Northamptonshire to decarbonise, reduce their emissions and avoid carbon leakage

Over the next 12 months Electric Places will collaborate with partners including Tata Steel and North Northamptonshire Council to:

- Develop a **Decarbonisation Plan** for Corby's Industry to Transition
and
- **Establish a Body** to Drive Transition to Low Carbon Economy

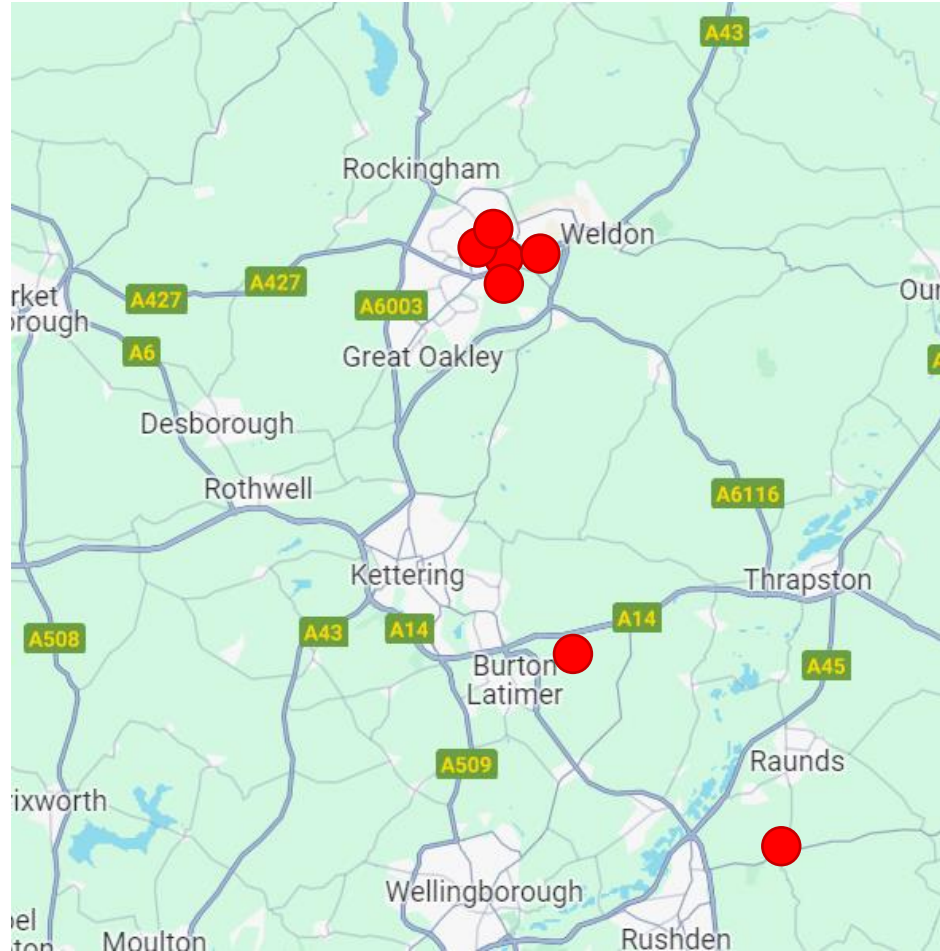
Beyond local: Optimising grid capacity, waste heat utilisation, and renewable energy in grid-constrained areas

Get Involved: visit www.nn2nz.co.uk/decode or email nick@electricplaces.co.uk



'DECODE' Corby - introduction

The challenge is for Corby to achieve net zero carbon emissions (reduced by 50% in the last 10 years but still 20% above national average) whilst enhancing its vibrant manufacturing and industrial economy and overcoming significant grid constraints.



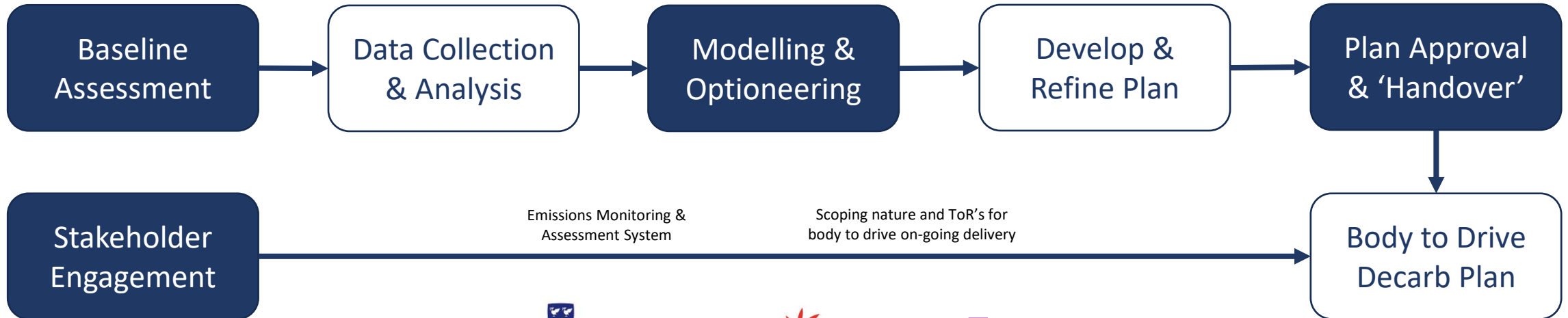
DECODE Work Programme



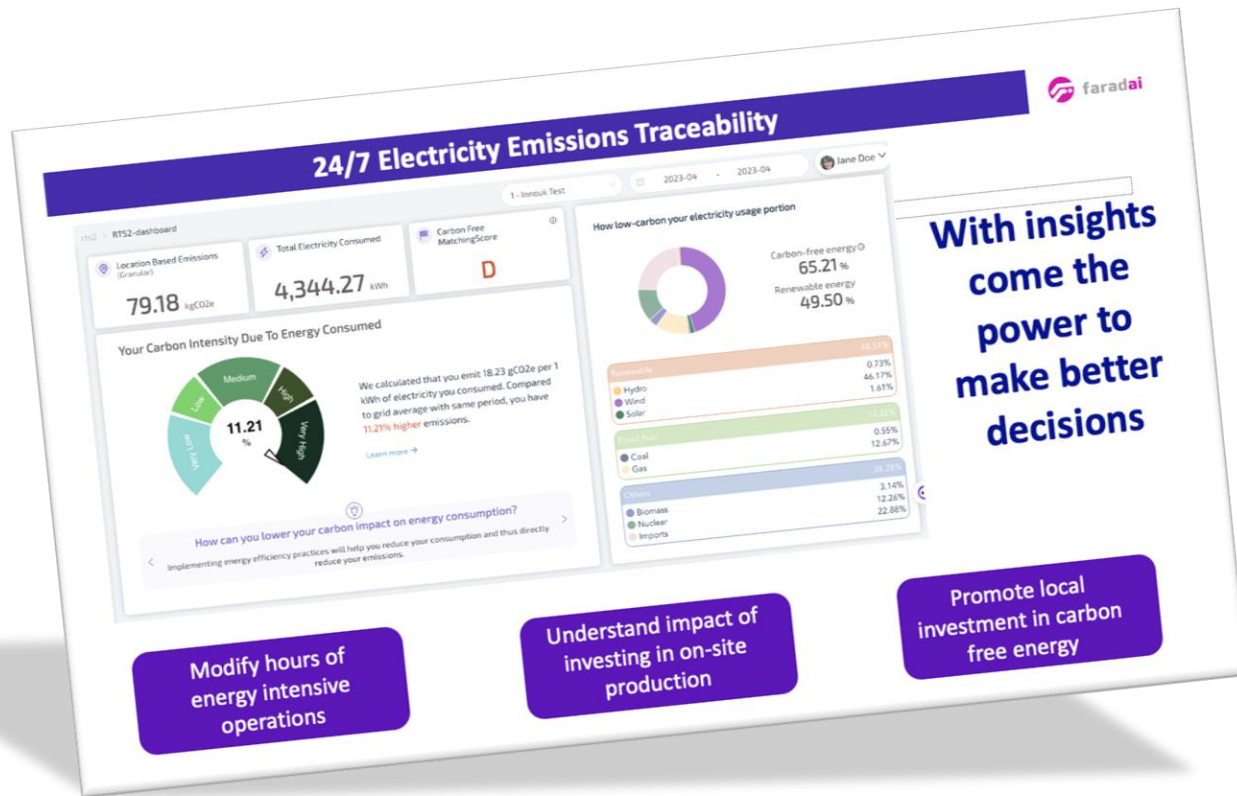
AI-powered **Carbon Management Software** will provide innovative energy monitoring and carbon emissions measurements



Digital Twin modelling and simulation platform to develop scenarios and demonstrate different ways of reaching the target of NetZero




FARADAI – Carbon Management Software



Building operations are responsible for 28% of all global emissions,
World Green Building Council

FARADAI – Carbon Management Software

24/7 Electricity Emissions Traceability




rts2 > RTS2-dashboard | 1 - Innouk Test | 2023-04 - 2023-04 | Jane Doe

Location Based Emissions (Granular)
79.18 kgCO₂e

Total Electricity Consumed
4,344.27 kWh

Carbon Free MatchingScore
D

Your Carbon Intensity Due To Energy Consumed



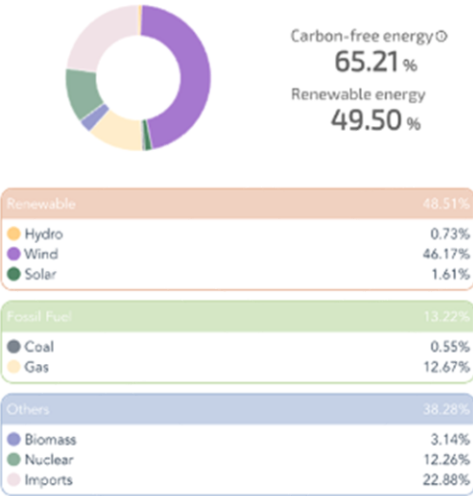
We calculated that you emit 18.23 gCO₂e per 1 kWh of electricity you consumed. Compared to grid average with same period, you have **11.21% higher emissions**.

[Learn more →](#)

How can you lower your carbon impact on energy consumption?

Implementing energy efficiency practices will help you reduce your consumption and thus directly reduce your emissions.

How low-carbon your electricity usage portion




Category	Percentage
Carbon-free energy	65.21%
Renewable energy	49.50%
Renewable	48.51%
Hydro	0.73%
Wind	46.17%
Solar	1.61%
Fossil Fuel	13.22%
Coal	0.55%
Gas	12.67%
Others	38.28%
Biomass	3.14%
Nuclear	12.26%
Imports	22.88%

Modify hours of energy intensive operations

Understand impact of investing in on-site production

Promote local investment in carbon free energy

With insights come the power to make better decisions

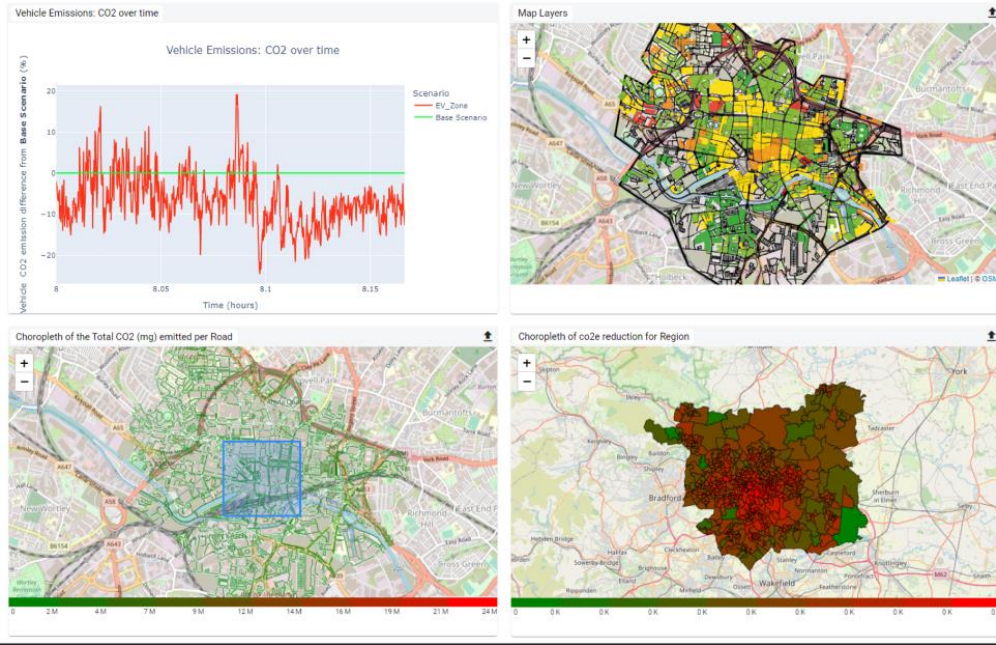


SLINGSHOT SIMULATIONS – Digital Twin

Models and Simulations

Test, optimise and strategise intervention scenarios with Compass: Engine™'s in-built model and simulation capabilities. Access carbon conversion factors for hundreds of policy intervention options, test different fleet mix and modality scenarios on emissions and noise output per road with mobility and traffic simulations and examine the impact of extreme climate events with environmental simulations.

View intervention zone specifications directly on a map for LEZ, pedestrianisation, flood zones and more. For specific insights, you can configure unique models and simulations.



Rapid Sifting

Configure multiple scenarios and compare the relative impact of each intervention on a region. Engage key stakeholders with core findings in charts, graphs and maps and export data for continued analysis.



Summary

Outputs

- Establishing a collaborative body with stakeholders including manufacturers, tech developers, DNOs, the community, and local authority.
- Updated, detailed data on local emissions.
- A Strategic Plan to achieve net zero in one of North Northamptonshire's highest emitting areas.
- Identified skill and knowledge gaps to guide targeted plans and policies

Request

- Work with us on alignment of networks, groups and day-to-day work on related 'net zero' activity