Decarbonomics[™] Powered by Carbon Data Insights







Future Proofing Airports Cost Effectively with DecarbonomicsTM Airports

The Challenge

An immediate challenge includes delivering energy security at the advent of a substantive energy transition, while also planning to decarbonise both ground and air operations. The challenge of achieving decarbonisation whilst the industry seeks a sustainable economic platform post COVID to drive growth compounds the complexity of securing and allocating financing. To stand up to these challenges while maintaining uninterrupted services, a whole life system thinking approach is needed.

The Opportunity

Although Airports contribute only 2.5% of all aviation emissions, they stand at the vanguard of the transition, because decarbonising aircraft emissions is not possible without the right infrastructure and systems in place on the ground. As such, both air and ground components of the aviation ecosystem need to be moving forward in lockstep. Airports are in a privileged position to lead this collaboration across stakeholders, navigate transition risks and act as a catalyst for aviation decarbonisation.



DECARBONOMICS AIRPORTS – OUR SOLUTION

The DecarbonomicsTM Airports concept is an emergent solution based on our award winning¹ DecarbonomicsTM Buildings platform that can provide a data-driven, systems level approach to enable decarbonisation of your existing assets and ground fleet, whilst futureproofing your infrastructure decision making for ongoing and future works through the development and implementation of cost and programme optimised net zero pathways that are informed by pragmatic delivery experience and expertise.

And as an established Net Zero Strategic Delivery Partner for a range of complex building and infrastructure programmes we can support delivery across the whole life of a net zero programme.

KEY BENEFITS



Robust

Systems

Future proofing complex assets

Operationalisi strategic inter

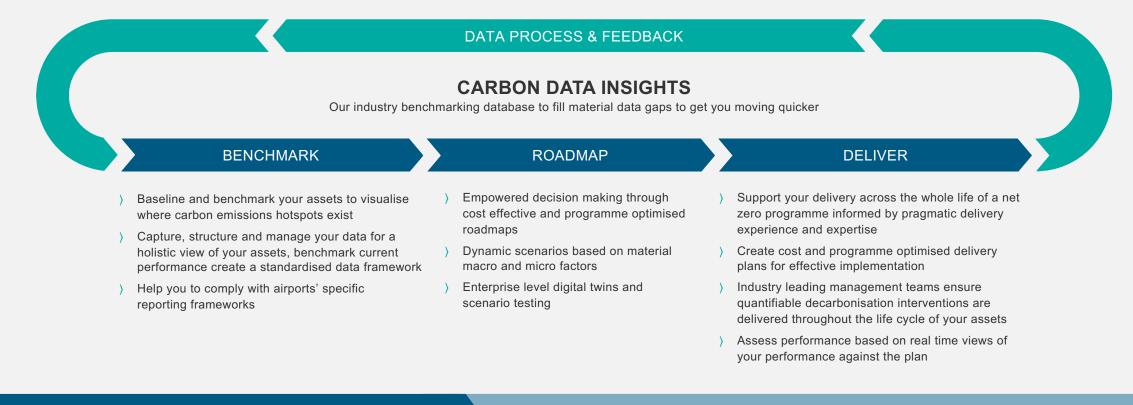
¹ SDE Digital Awards 2022 Winners | CIBSE



WE'RE LOOKING FOR AIRPORT OPERATORS TO CO-CREATE WITH - COME JOIN US!



Decarbonomics Airports – Systems thinking solution enabled by our people, data, and technology



Interventions & Solutions

Using a systems based approach to appraising and optioneering the optimal configuration and programming for a wide range of interventions and infrastructure solutions. DecarbonomicsTM provides industry leading insights, expertise and data on the following established and emergent airside and landside facility solutions:

Airside Interventions & Solutions

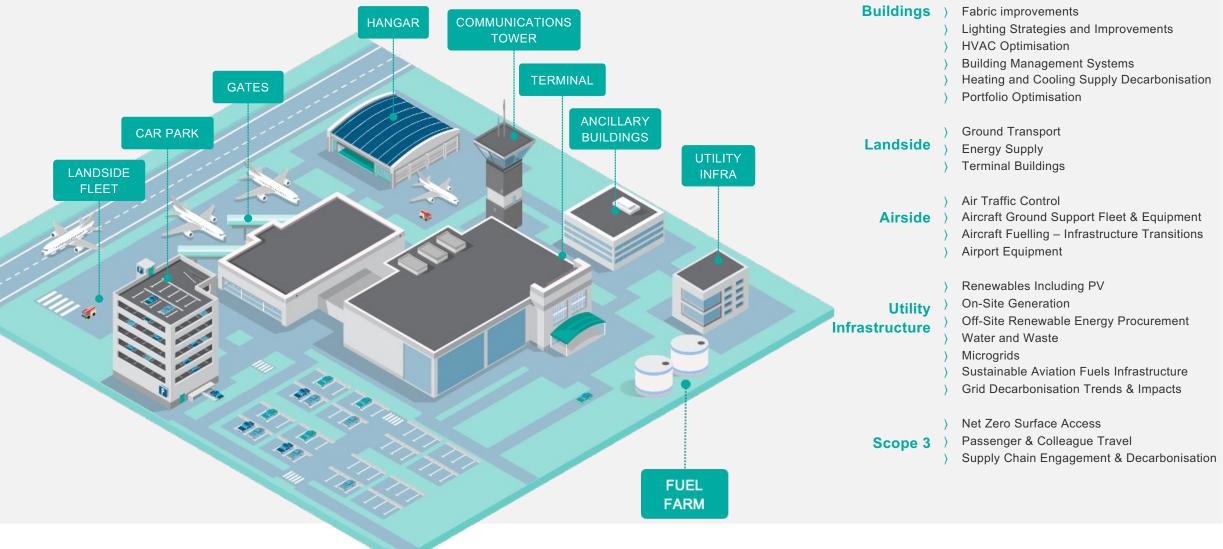
-) Air Traffic Control
 - Aircraft Ground Support Fleet & Equipment
- Aircraft Fuelling Infrastructure Transitions

Landside Interventions & Solutions

- Ground Transport
-) Energy Supply
- Terminal Buildings
- Airport Equipment



Decarbonomics[™] covers...







Decarbonomics Airports is an end-to-end service, providing whole life support across three core areas of benchmarking, road mapping and delivery

Our innovative solution combines people, data and technology to provide:

- A real time systems level view of your carbon baseline
- Net zero roadmaps with macro scenario modelling capability
- Industry leading programme management systems to create cost and programme optimised delivery plans and the ability to track performance
- Proxy carbon, cost and asset data to fill material data gaps
- End to end expertise and advice on the wide array of interventions and options for optimising your decarbonisation journey.
- Industry leading programme management and assets management tools and processes, integrated into an unprecedented decarbonisation platform
- A simple and fully dynamic end-to-end dashboard enabling you to measure assets performance at any stage of your journey

Decarbonomics Airports provides robust investment cases to help our clients secure the necessary finances and funding needed to deliver a net zero future



CASE HISTORY

GOVERNMENT PROPERTY AGENCY

SNCL are the strategic net zero partner for the UK's government property agency which deployed Decarbonomics to assess 500 buildings, achieve 340m+ annual savings and save 35k tCO₂ and bring the estate towards net zero carbon.

UK DEFENCE CLIENT

As the strategic delivery partner SNC Lavalin, deployed Decarbonomics on the client's estate, providing a clear and actionable path to net zero while working within sensitive survey requirements and specific site conditions resulting in 54 tCO₂ reduced and \$11m+ in savings.

DEPARTMENT FOR WORK & PENSIONS

SNC Lavalin are piloting on 850 properties focusing on decarbonisation of heat as well as lighting, HVAC, BMS and PV.

HEATHROW AIRPORT LTD

SNCL works in partnership with Heathrow to deliver the airport's strategic target to be zero-carbon by 2050 which has led to seven pilot projects across their capital value Asset Management Programme.

JOHN F. KENNEDY INTERNATIONAL AIRPORT

Systems level delivery looking at departure's curbside, updated utilities, and a multimodal passenger facility in the current location of the existing Terminal.

People. Data. Technology.





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