

Meeting Net Zero in Clinical Trials

A BIP UK Life Sciences Solution



Clinical Trials are time consuming and resource intensive, with a huge environmental impact in terms of emissions and waste. Building a sustainable Clinical Trials value chain is important for Pharma companies to achieve their Net Zero ambitions and healthier patient outcomes.

Did You Know?

Healthcare accounts for 5% of global greenhouse gas emissions





If healthcare were a country, it would be the **5th** largest emitter after China, U.S, India, and Russia

In 2021, **350K** trials were registered which gave an estimated 27.5 million tonnes of CO₃ - around half the national emissions of Denmark



Direct impacts on patients and healthcare from environmental changes are estimated to cost **\$4 billion** per year by 2030

Top Contributors to Clinical Trial Environmental Footprint















Patient Recruitment & Retention

Study Design

Supply & Distribution

Packaging

Trial Site & **Travel Emissions**

Ancillary Waste

Building a greener future is a journey that begins by embedding sustainable measures throughout the Clinical Trials value chain

Why Does This Matter?



Planet & patient health are entwined. Healthy planet = Healthy patients

Clinical Trials mapped to decarbonisation pathways improve efficiencies and secure the future

Sustainability by design and circular economy principles reduce waste and cost

BIP Expertise Can Help

We are your strategic partner, wherever you are on your journey. We work with you to deliver your sustainability vision using our four step process.

Assess

End to end environmental footprint visualisation & assessments help identify opportunities for improved efficiencies

Plan

Utilising technology for optimised data collection

Road to Net Zero and Science Based Targets

Leveraging Synthetic data, ML and AI to optimise patient selection and reduce cost & waste

Design

Decentralised Trial Design & Adaptive Clinical Trial Strategy

Maximise patient recruitment, retention and minimise environmental footprint through improved trial design

Implement

Reduced emissions Supply & Distribution

ESG baselining and values in vendor selection

Data consolidation in cloud-based platforms

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