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Becoming Net Zero Carbon Across The Corporate Building Estate

By Jake Wilshire & Nonso Obuekwe
Sustainability Consultants at Salvis Group

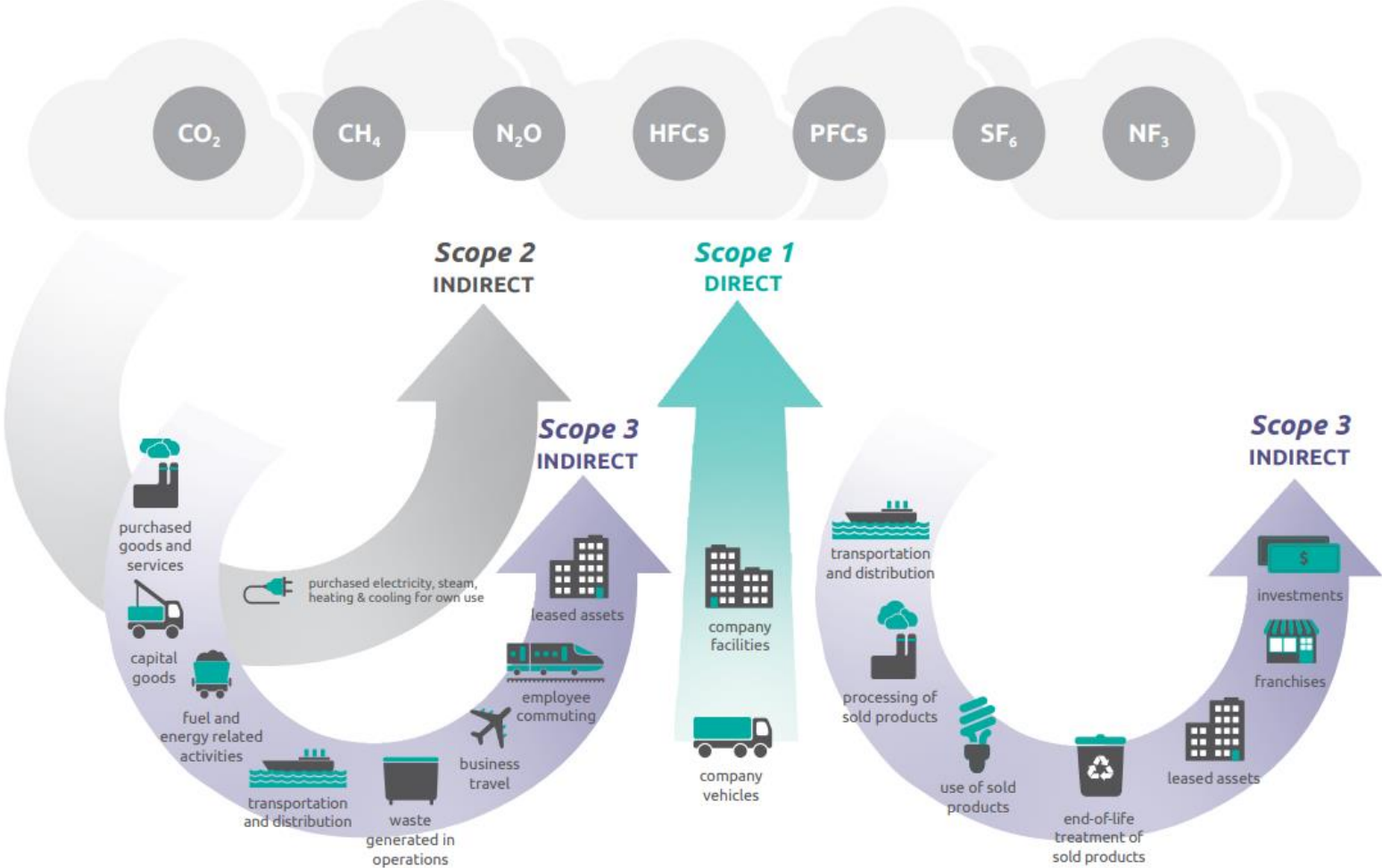
Agenda

- Understanding emissions
- Net-zero strategies
- Prioritisation of assets within the estate
- Challenges

Vocabulary

Term	What It Means	Requires Emissions Cuts?	Uses Offsets?	Council Example
Net-Zero	Balance emissions with removals	✓ Yes	✓ Sometimes	Retrofit + offset residuals
Carbon Neutral	Offset all emissions	✗ Not required	✓ Yes	Offset gas boiler emissions
Carbon Positive	Remove more than you emit	✓ Yes	✓ Yes	Tree planting + clean energy
Zero Carbon	Emit no carbon at all	✓ Yes	✗ No	Fully renewable building
Climate Neutral	Neutralise all climate impacts	✓ Yes	✓ Yes	Methane + CO ₂ strategy

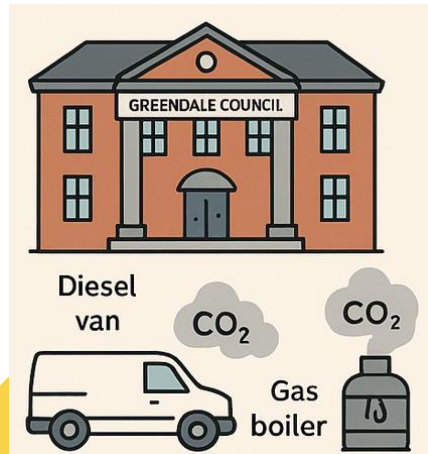
Emissions Overview



Emissions

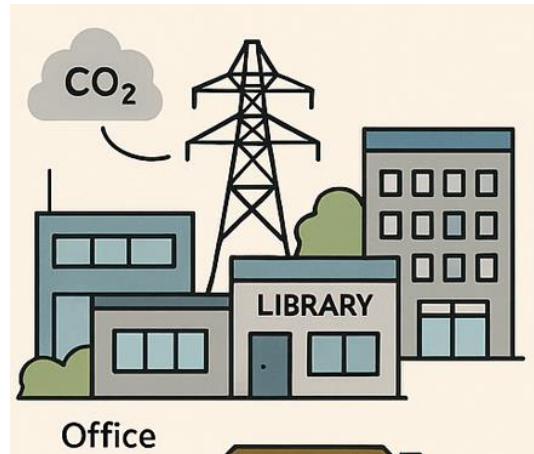
Scope 1

- Emissions from things the council owns or operates directly



Scope 2

- Emissions from the energy the council buys



Scope 3

- Emissions from everything else the council influences but doesn't directly control





What to Include?

- Relevance
- Completeness
- Consistency
- Transparency
- Accuracy

Net Zero Strategy

Benchmark & Audit

Establish baseline energy and carbon data through audits and monitoring

Low-Carbon & Renewable Tech

Install heat pumps, solar PV, and other systems that reduce reliance on fossil fuels.

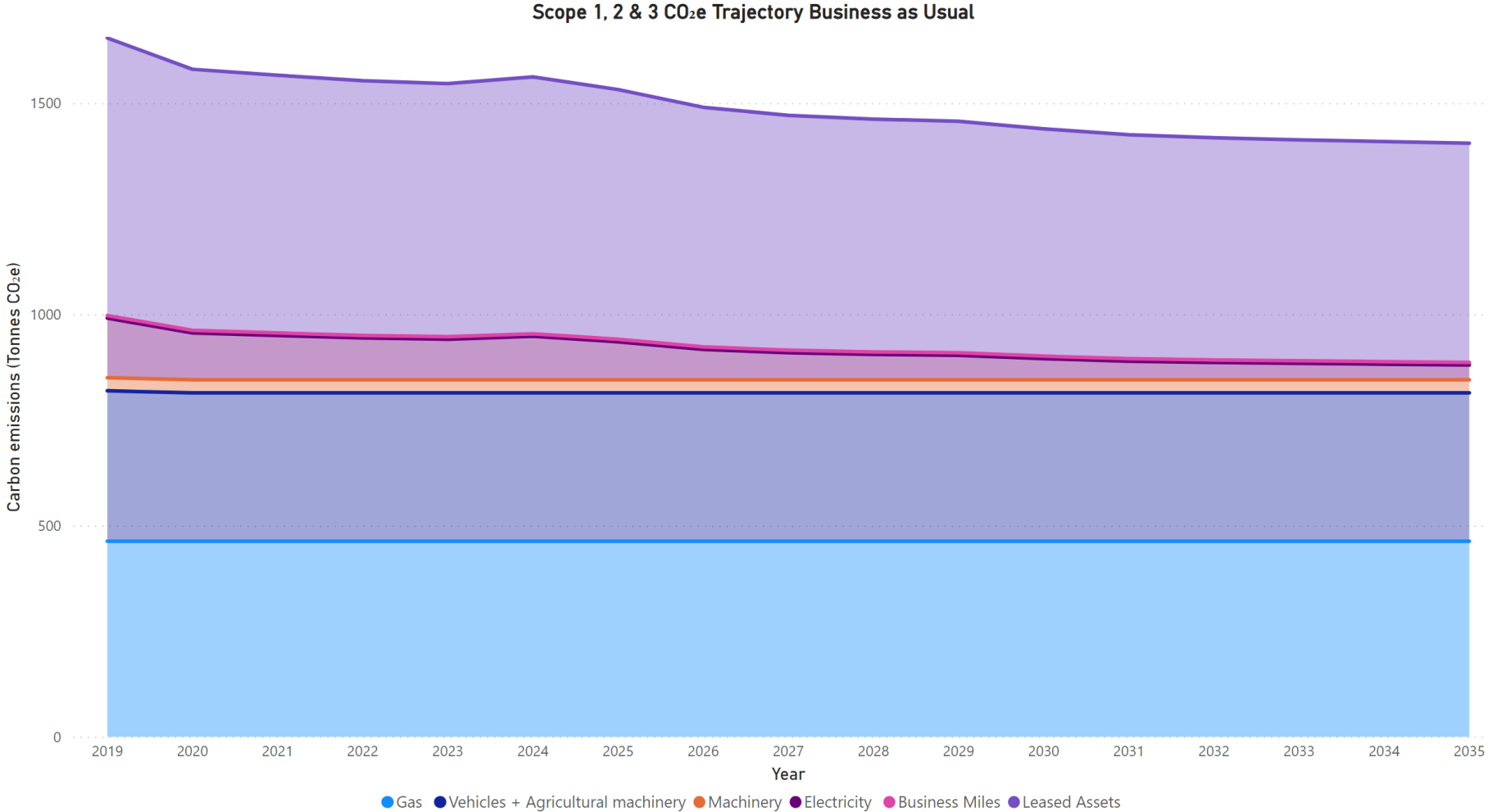
Reduce & Optimise

Implement energy efficiency measures and improve building performance

Offset & Balance

Use verified carbon offset schemes for remaining emissions

Baseline Trajectory

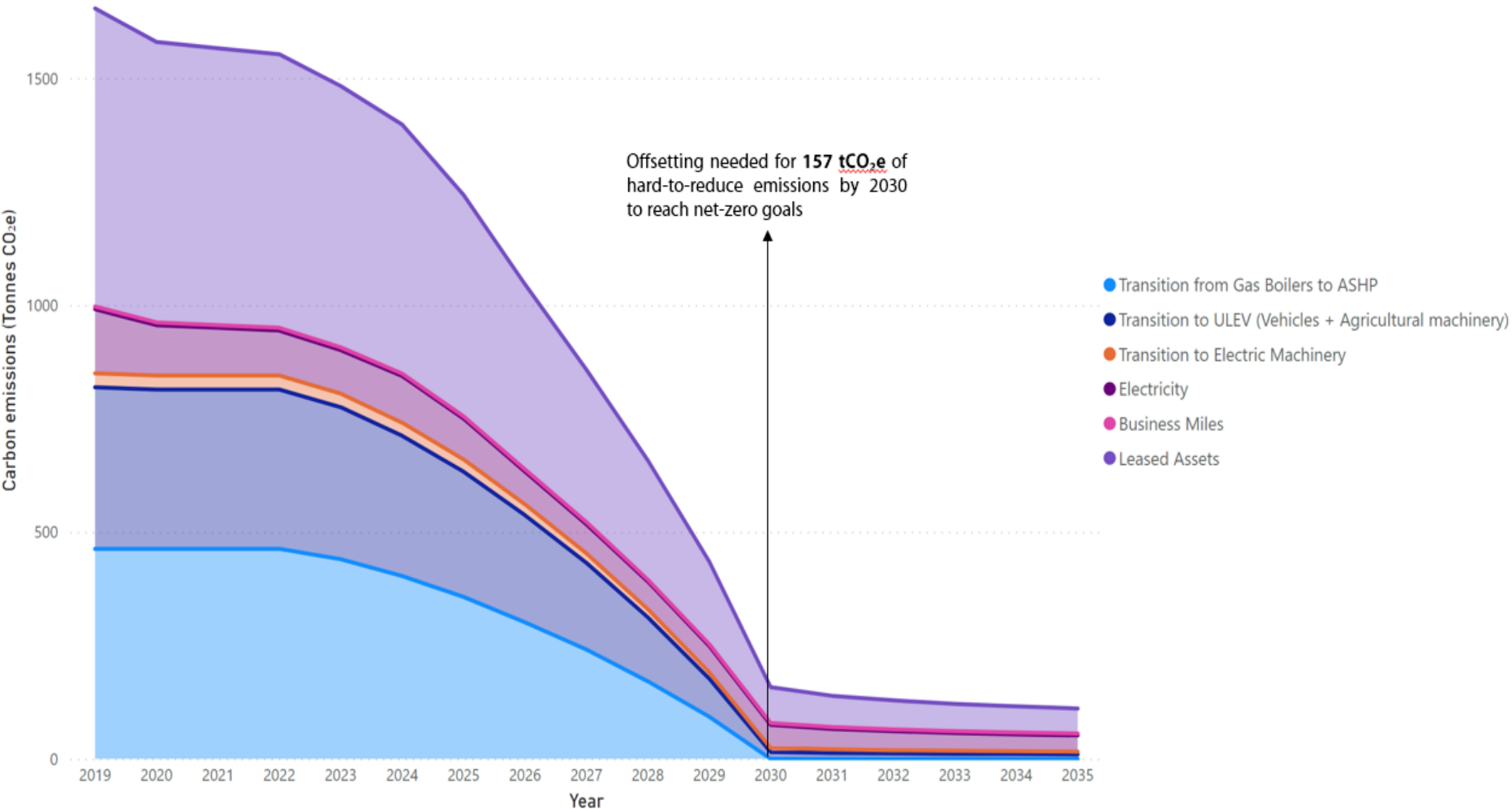


The Net Zero Journey Summary

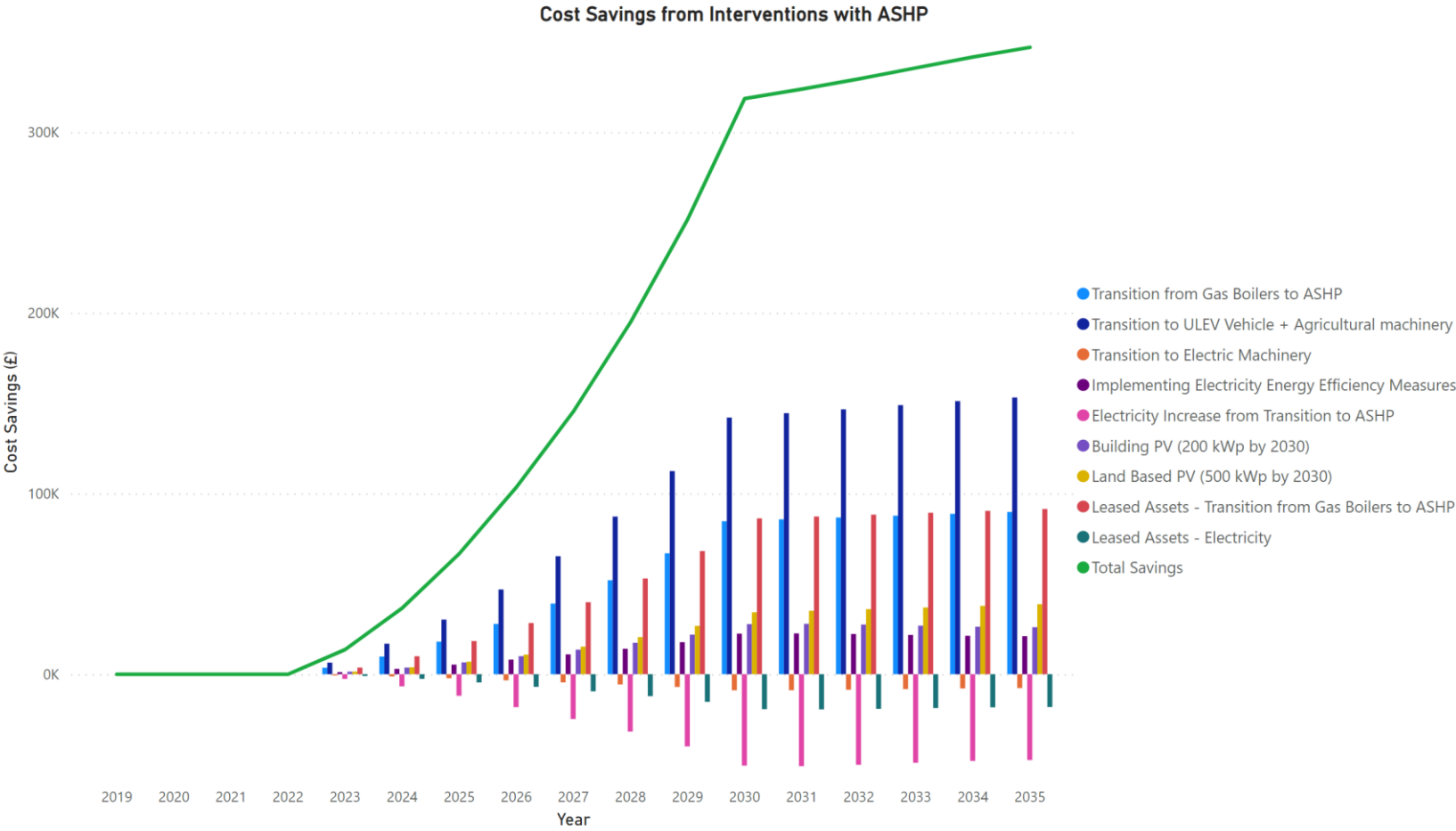
- Get your **Data** & estate in order
- Calculate **Baseline Emissions** & **Set Net Zero Targets**
- Do a **Net Zero Trajectory**
- Carry out **on-site Energy Audits**
- **Engineering Design**
- Procurement
- Installation
- **Measure & Optimise** for *Continuous Improvement*

Net Zero Trajectory

(A Live Document)



Net Zero Trajectory



Energy Audits

(Prepare a funding-ready report)

-
- Site visit
 - Existing plant and equipment
 - Energy usage
 - Site-specific energy saving & decarbonisation pathways
 - Energy savings calculations
 - Capital cost of measures

Project Prioritisation



- Analysing existing and proposed building loads
- Comparing technologies
- Maintenance requirements and cost
- Carbon savings
- Cost savings
- Funding opportunities
- Payback and ROI
- Project implementation risks

Guide to Historic Buildings

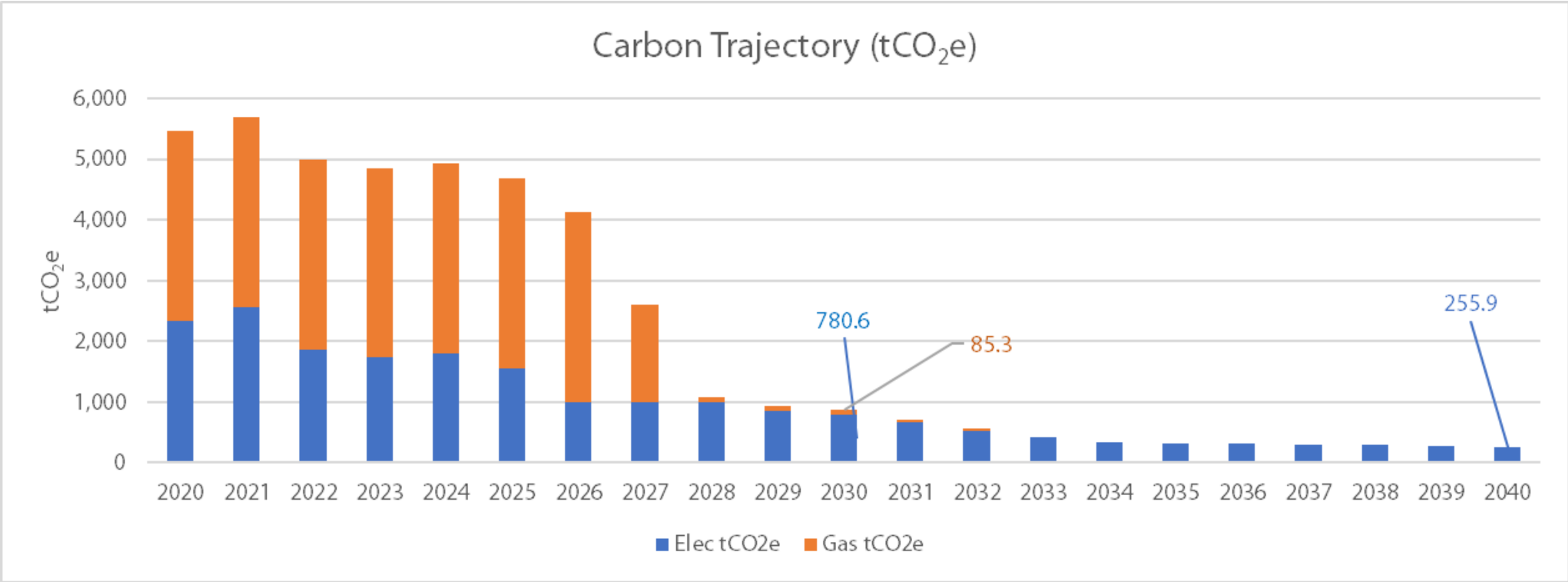


Improving Historic Buildings with reference to 'Adapting Historic Buildings for Energy and Carbon Efficiency' (Historic England)



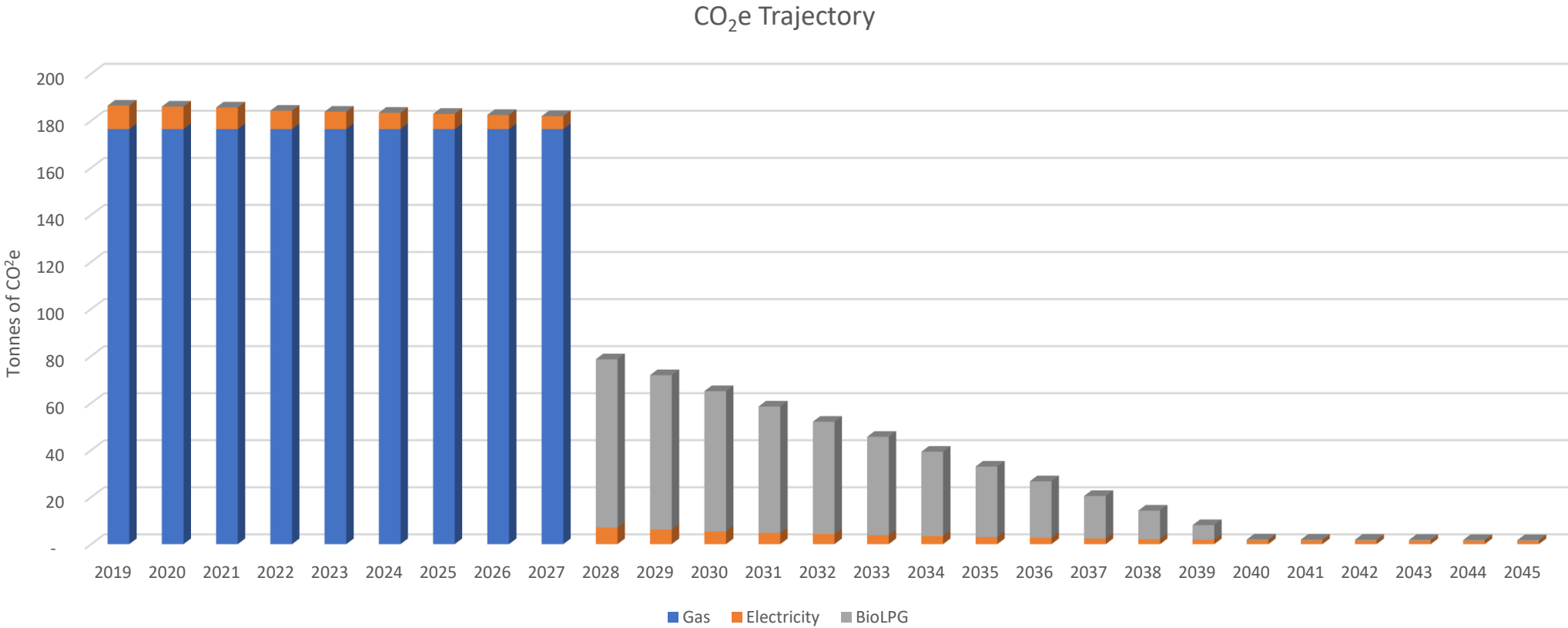
Heat Decarbonisation Plan

Hospital



Heat Decarbonisation Plan

Crematorium



Contact Details



APSE Energy Associates



Alan Barber

Director: Energy

alan.barber@salvisgroup.co.uk



Mike Keating

Director: Engineering

mike.keating@salvisgroup.co.uk





Next Steps

Ready to take action?

Contact Phil Brennan for further details on delivery of projects

Phil.Brennan@apse.org.uk



GB 11409



GB 11132



GB 14074