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Are your fundamentals in order? Energy and assets.

By Alan Barber

APSE Associate

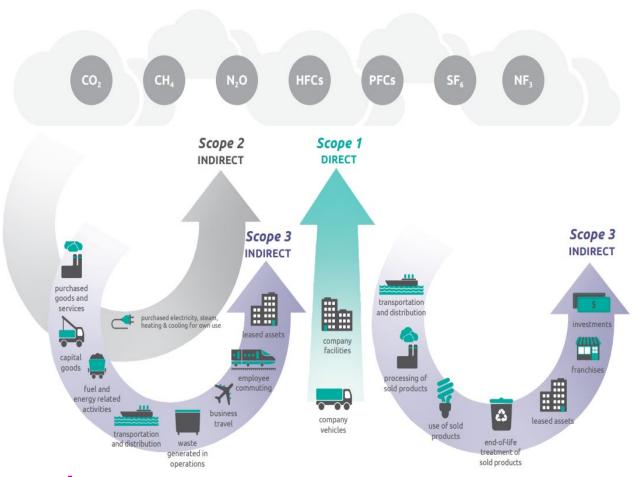
& Director of Salvis



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Emissions





Scope 1 and 2 - Calculating Emissions

- Identify assets
 - kWh
 - Heat source
 - Energy expenditure
 - Floor area
- Council owned vehicles
 - Type of vehicle
 - Volume of fuel and mileage



Scope 3 - Calculating Emissions

- Water supply and wastewater
- Waste
- Contractors
- Staff travel
- Leased assets
- The supply chain

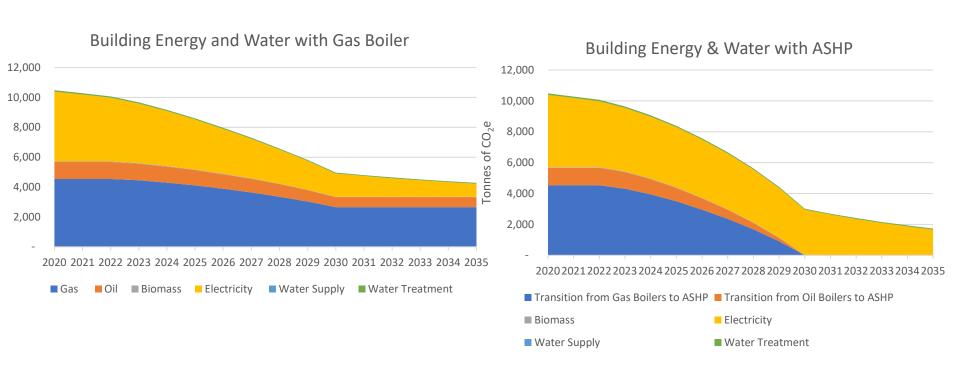


How to get your building estate to be zero carbon

- Reduce energy usage and optimise building performance (i.e. energy efficiency)
- Generate renewable local power
- Offset



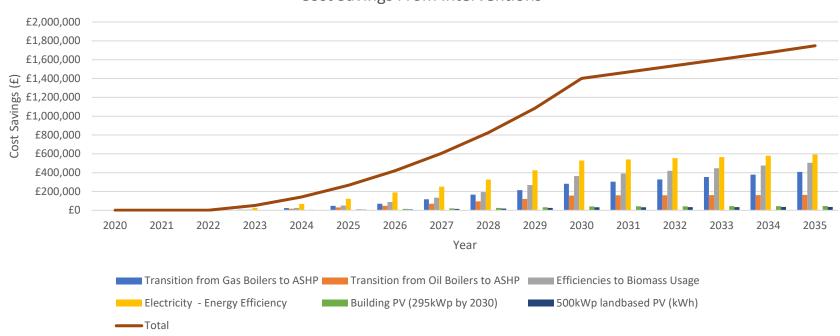
Building Estate Net Zero Trajectory





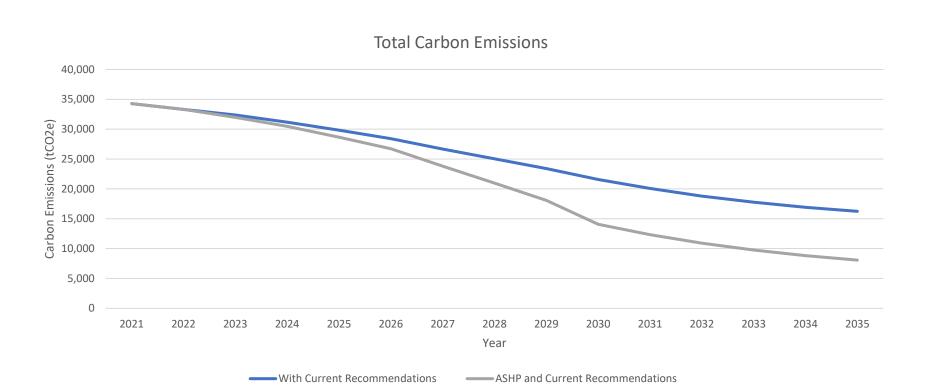
Building Estate Net Zero Trajectory





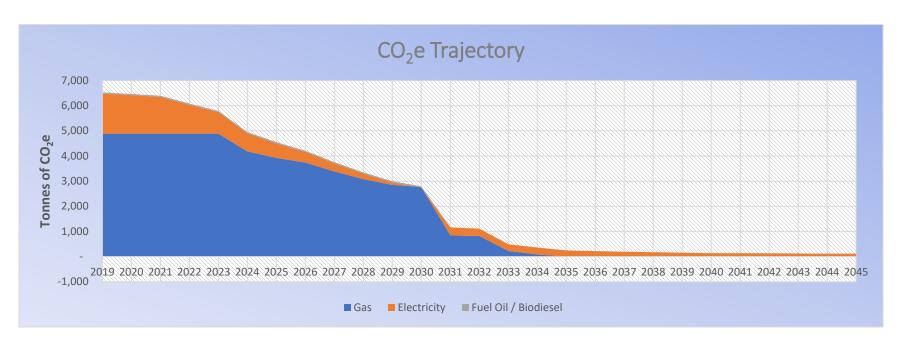


Housing Carbon Emissions





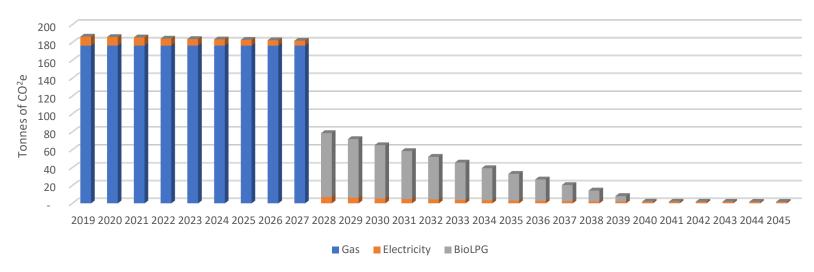
Heat Decarbonisation Plan – Hospital Estate





Heat Decarbonisation Plan - Crematorium







Public Sector Low Carbon Skills Fund

- 1. Preparation of a strategic plan to decarbonise building(s) / estate
- 2. Building audit
- 3. Feasibility study
- 4. Specialist technical site survey
- 5. Detailed design
- 6. Investment grade audit
- 7. Desktop assessment



Public Sector Decarbonisation Scheme

(PSDS Phase 3)

- Technical application
- Pre and post peak heat loss and system sizing
- Like for like costs
- Age of plant
- Detailed cost breakdown
- Electrical capacity
- £325 tCO₂eLT



Prioritising projects and feasibility studies

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



Carrying Out Energy Audits

- Prepare a report that can be submitted with the PSDS application
- Include energy saving calculations
- Include a breakdown of capital cost



Challenges

- Corporate challenges
- Zero carbon heating
- Grid capacity



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