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Timeline





Based on CDP's thorough assessment of comprehensive climate change data, Senior is the only Company in the Aerospace & Defence Sector to achieve the highest 'A' rating. A total of nearly 15,000 companies were scored, putting us in the top 2% of disclosing companies.





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Environmental Continuous Improvement

- 2008 Environmental Management System ISO14001
- 2009 Removal of solvent degreasing processes, move to aqueous degreasing
- 2010 Replacement compressors
- 2013 Cycle to work scheme and car share/Eco scheme
- 2015-17 LED lighting project
- 2016 Replacement of factory radiant heaters with blown air with timers
- 2017 Energy Management software



• 2019 Waterless Urinals (17) reduced water consumption by 2.4 Million Litres per year



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Energy and Water Management



Carbon reduction

- 90% reduction since 2017 (renewable energy)
- Software application monitors and alerts
 abnormal utility consumption
- £13,000 investment with an ROI of 6 months

Staff and attendance hours:

- 30% increase in staff
- 18% increase in attendance hours
- 4 day working week







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NET ZERO Bird Bellows | Net-Zero Strategy

Senior Bird Bellows Net-Zero Strategy



Bird Bellows Greenhouse Gas Emissions



181 tCO₂e

Scope 2

(market-based*) Indirect emissions associated wit electricity consumption. Bird Bellows has purchased 100% renewable electricity since 2018

0 tCO₂e

Scope 3

Indirect emissions occurring within Bird Bellows value chain, both upstream and downstream of your operations. This includes emissions from suppliers and customers.

This Scope is made up of 15 categories. The most significar category for Bird Bellows is "Purchased Coods & Services", which includes emissions embedded in all products & services purchased by the company.

3,734 tCO₂e

Operational Emissions 2018 - 2021



*Market-based reporting of Scope 2, allows businesses to report 0 tCO2e for their electricity emissions when they invest in 100% renewable energy.

Value Chain Emissions 2021

- 86% Purchased Goods & Services
- 5% Employee Commuting
- 5% Capital Goods
- % Fuel-related Activities
- 1% Processing of Sold Products
- 0.5% Business Travel
- 0.2% Upstream Transport & Distribution
- 0.1% Waste
- 0.02% End-of-life Treatment of Sold Products







NET **ZERO** Bird Bellows | Net-Zero Strategy By Inspired

Operational Decarbonisation Actions

An energy survey was undertaken at Bird Bellows' property in <u>Condeton</u>, Cheshire to support ESOS Phase 3 compliance. Below are the recommendations from they survey, which will support operational (Scope 182) decarbonisation.

| Improvement Action | Installation Cost (£) | Payback Period (years) | Year 1 Cost Saving (£) | Year 1 Energy Saving (kWh) | Year 1 Emissions Saving (tCO ₂ e) |
|---|--------------------------|---------------------------|---------------------------|-------------------------------|---|
| Solar PV | £257,888 | 2.10 | £119,558 | 246,628 | 47.7 |
| VSDs for linish extractors | £9,700 | 0.14 | £67,239 | 134,477 | 26.0 |
| Compressed air heat recovery | £20,000 | 0.81 | £24,771 | 140,744 | 25.7 |
| Compressed air leak detection | £10,000 | 0.51 | £19,739 | 39,479 | 7.6 |
| VSDs for Breeze Air system | £7,600 | 0.55 | £13,889 | 27,778 | 5.4 |
| Destratification fans Bay 6 | £19,520 | 6.07 | £3,218 | 18,283 | 3.3 |
| Compressed air pressure reduction | £1,000 | 0.20 | £4,964 | 9,929 | 1.9 |
| PIRs for Bay 5 electric radiant heaters | £1,000 | 0.33 | £3,000 | 6,000 | 1.2 |
| 7-day timers for water heaters | £135 | 0.07 | £1,871 | 3,741 | 0.7 |
| Adjust office heating from 23°C to 21°C | £100 | 0.22 | £464 | 929 | 0.2 |
| Consider VSD for hydraulic power packs | £1,000 | 2.22 | £450 | 900 | 0.2 |

Solar PV

ROI 4 years

9%



sen

Value Chain Decarbonisation Actions

To decarbonise Scope 3 emissions, the key is to collaborate with your supply chain to encourage them to reduce their own greenhouse gas emissions. Below are some examples of the actions Bird Bellows will be taking over the next few years to engage with suppliers and encourage them to achieve netzero.













Thank You

Questions?

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