

Partnering to achieve a low carbon future

UK Challenge

The Government, NHS and Industry are bound by the Montreal Protocol to reduce the production and consumption of hydrofluorocarbons by equivalent to:

70bn
tonnes CO₂
by 2050¹



The Environmental Audit Committee have recommended switching 50% of all inhalers to low carbon by 2022, and recycling 50% of MDI inhalers by 2020²



DEFRA has agreed that low carbon inhalers should be promoted in the NHS³

The NHS is likely to miss its 2020 target of a 34% reduction in carbon emissions⁴

70% of all inhalers in the UK are MDIs which contain greenhouse gases⁵

3.5% of the NHS total carbon emissions are from MDIs⁵ (798K tonnes)

18 times less carbon in a DPI compared to an MDI⁶

NHS commitments: opportunities for change



The NHS England Sustainable Development Unit has proposed a target of **reducing inhaler emissions by 50%** over the next ten years⁷



The NICE inhaler 'Shared Decision Aid' for asthma will enable clinicians and pharmacists to **discuss available inhalers with patients** and, where clinically appropriate, offer a low carbon inhaler choice⁸



The NHS England Long Term Plan commits to supporting patients in inhaler technique which could also **reduce medicines wastage and inappropriate prescribing**⁹

Our proposal: partnering with the NHS

The benefits: carbon, cost and patient

1. Make low carbon DPIs available for appropriate patients eg. through formularies and guidelines

Optimised patient care

3. Set targets, to measure shift to low carbon inhalers and incentivise change

2. Utilise the NICE inhaler 'Shared Decision Aid' to support patient low carbon choice and disposal in an environmentally safe way

Halving the amount of emissions from inhalers would lead to approx.

230,000 fewer cars¹⁰ on UK roads

British Thoracic Society (BTS) guidance

The 2019 SIGN/ BTS British Guideline on the Management of Asthma recommends that inhalers with a lower carbon footprint - such as dry powder inhalers (DPIs) - should be used when they are likely to be equally effective¹¹

The Committee on Climate Change 'Net Zero' Technical Report states that "it is feasible and cost-effective to switch MDIs to DPIs and low-GWP¹²"

Better control in respiratory care could lead to less medicines waste and better adherence, with a lower carbon co-benefit

This collaboration will bring the NHS closer to its targets and **empower patients to make lower carbon choices**