



Our NHS, Our Net Zero – how industry and laboratories can work together.

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What is Net Zero?

NET ZERO is the balance of the amount of carbon emissions (which is the carbon footprint) produced and the amount absorbed equals zero.

This is done by a combination of reducing emissions and off-setting using a carbon sink.

A carbon sink can be a natural or artificial reservoir that absorbs carbon. For example, the 7 natural carbon sinks are;

- Grasslands.
- Agricultural Lands.
- Northern, boreal forests.
- Tropical Rainforests.
- Peat Bogs.
- Freshwater lakes and wetlands.
- Coastal ecosystems such as seagrass beds, kelp forests, salt marshes and swamps.
- Coral reefs.

The main artificial sinks are landfills and carbon capture and storage processes.

Net Zero and Carbon Neutral

Carbon Neutral and Net Zero are not the same.

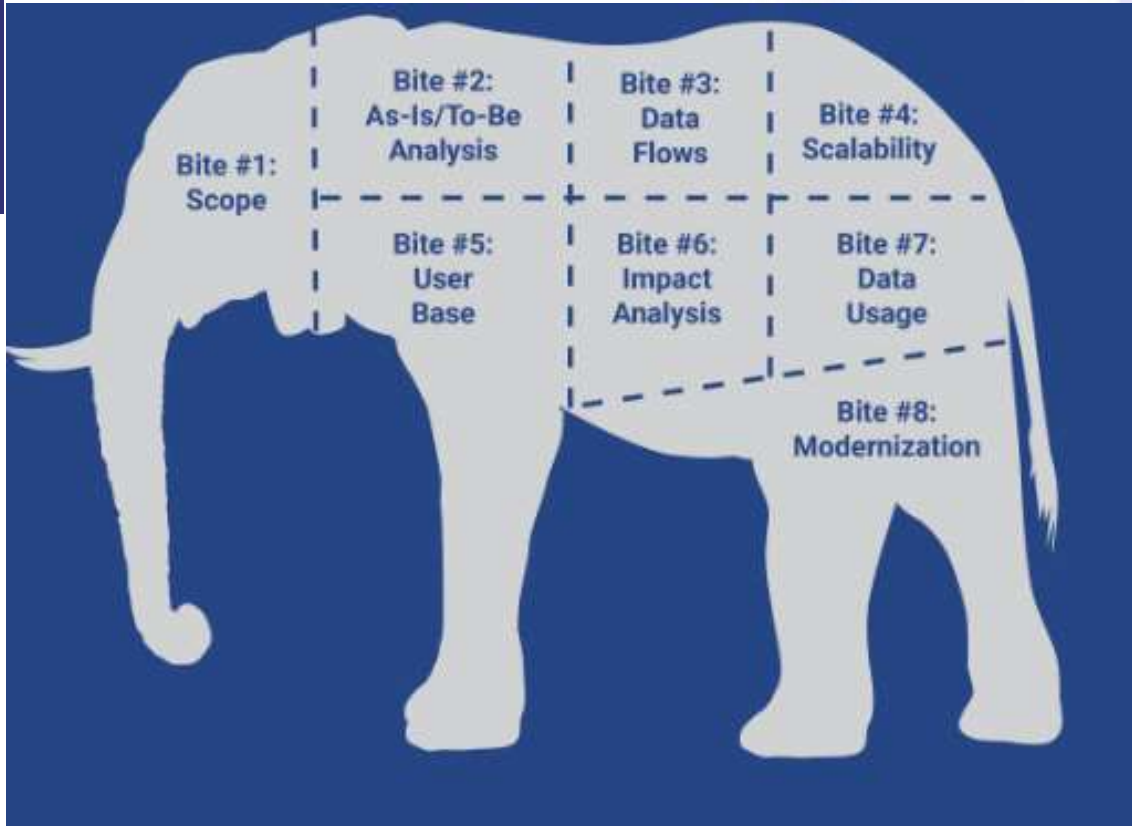
Carbon neutral refers to a policy of not increasing carbon emissions and of achieving carbon reduction through offsets. While net zero carbon means making changes to reduce carbon emissions to the lowest amount – and offsetting as a last resort.

Our NHS, Our Net Zero - Strategic Alignment



- High-Level Understanding of Net Zero and Social Value
- Leadership
- Accountability & Sustainability Champions
- Capital Allocation & Budgets
- Communication
- Suppliers
- Accountability
- Ongoing Review

Labs to Net Zero - One Bite at a time



- Accept some areas that cannot be improved in the short term.
- Look at activities and future activities separately.
- What can be changed now?
- What can be changed in the future?
- Engagement with users.
- Engagement with suppliers.
- Identify barriers.
- Identify quick wins.
- Not everything works for everyone!

Net Zero and Social Value

- Emissions
- Energy use
- Energy Efficiency
- Travel
- Waste
- Recycling
- Packaging/ stationery Use
- Water
- Key Supplier reviews
- Work Experience/ Apprentices
- Working practices
- Training
- Employee satisfaction
- Community benefit

How to work with Suppliers



Maybe it's NOT a competition?

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Emissions

Current Activities	Future Activities	Engagement	Opportunities/ Barriers	Action
<ul style="list-style-type: none"> <i>Just in time stock delivery.</i> <i>Multiple orders daily.</i> 	<ul style="list-style-type: none"> <i>Buffer stock and storage facilities.</i> <i>Reduced deliveries.</i> <i>UKPLC.</i> 	<ul style="list-style-type: none"> <i>Suppliers – What can they offer to minimise impact</i> <i>Procurement – Standing Orders/ scheduled deliveries.</i> <i>End Users – do they have space.</i> 	<ul style="list-style-type: none"> <i>Reduction in Supply Chain emissions.</i> <i>Utilisation of current facilities.</i> <i>No extra costs.</i> <i>Reduction in costs.</i> <i>Collaboration and everyone contributing to the same cause.</i> <i>Reduction in duplication.</i> <i>Reduction in resource.</i> <i>Less opportunity for stock out and emergency deliveries.</i> <i>Business continuity planning extra resilience.</i> <i>No Space/ Potential waste.</i> 	<ul style="list-style-type: none"> <i>Procurement – change contract terms/ KPI.</i> <i>Stock management/ stores.</i> <i>Set buffer levels based on run rates. Not via MSP.</i> <i>Network/ ICS opportunities – central warehousing.</i> <i>Set goals/ targets.</i> <i>Review levels.</i>

Utility Use/ Efficiency

Current Activities	Future Activities	Engagement	Opportunities/ Barriers	Action
<ul style="list-style-type: none"> • <i>Service Availability.</i> • <i>Older equipment</i> • <i>Lots of Equipment</i> • <i>Lab Temperatures.</i> 	<ul style="list-style-type: none"> • <i>Different TATS.</i> • <i>Collaborate for energy efficiency (Stores).</i> • <i>Reduced amount of equipment.</i> • <i>Different cooling/ heating solutions.</i> • <i>New technologies for autoclaving.</i> 	<ul style="list-style-type: none"> • <i>Suppliers – What can they offer to minimise impact</i> • <i>Procurement – Standing Orders/ scheduled deliveries.</i> • <i>End Users – what is acceptable.</i> 	<ul style="list-style-type: none"> • <i>Less equipment = less energy.</i> • <i>Utilisation of current facilities.</i> • <i>No extra costs.</i> • <i>Reduction in acquisition costs.</i> • <i>Collaboration and everyone contributing to the same cause.</i> • <i>Reduction in duplication.</i> • <i>Reduction in resource.</i> • <i>Work with suppliers to reduce outputs.</i> • <i>Barriers – service resilience.</i> 	<ul style="list-style-type: none"> • <i>Reduce air con/ heating.</i> • <i>Tender specifications.</i> • <i>Batching.</i> • <i>Utilise network for different send away decisions.</i> • <i>Change contract terms/ KPI.</i> • <i>Review.</i>

Travel

Current Activities	Future Activities	Engagement	Opportunities/ Barriers	Action
<ul style="list-style-type: none"> • <i>Own Car.</i> • <i>Train.</i> • <i>Stay overnight.</i> • <i>Car Share.</i> • <i>Supplier visits .</i> 	<ul style="list-style-type: none"> • <i>Hybrid/ electric schemes.</i> • <i>Car Shares.</i> • <i>Have suppliers on same day.</i> • <i>Online meetings.</i> • <i>Charging points.</i> • <i>Flexible working to allow for getting to and from work.</i> 	<ul style="list-style-type: none"> • <i>Suppliers – need to visit, charging points reserved for industry so they can change cars.</i> • <i>Facilities – staff buses.</i> • <i>ICS – collaboration with councils .</i> 	<ul style="list-style-type: none"> • <i>Less congestion.</i> • <i>Less fuel.</i> • <i>Collaboration.</i> • <i>No extra costs.</i> • <i>Reduction in personal costs.</i> • <i>Collaboration and everyone contributing to the same cause.</i> • <i>Reduction in duplication.</i> • <i>Barriers – change in working practices.</i> • <i>Access to stakeholders.</i> • <i>Potential for alienation.</i> 	<ul style="list-style-type: none"> • <i>Set up a scheme to reduce travel with input from lab.</i> • <i>Collaborate with other employers in the area for buses/ car shares.</i> • <i>Review.</i>

Waste/Recycling/Packaging

Current Activities	Future Activities	Engagement	Opportunities/ Barriers	Action
<ul style="list-style-type: none"> <i>Hospital waste.</i> <i>Clinical waste.</i> <i>Packaging waste.</i> <i>Recycling.</i> 	<ul style="list-style-type: none"> <i>Waste collection/ deliver remove.</i> <i>Combine waste to make it more attractive to waste companies.</i> <i>Reduce deliveries/ packaging.</i> <i>Reduce single use.</i> <i>Increase re-use.</i> <i>Recycle LFD's.</i> 	<ul style="list-style-type: none"> <i>Suppliers – Sustainable Design and waste solutions.</i> <i>Facilities – collaboration.</i> <i>ICS – collaboration with councils and waste companies.</i> <i>End users – best point of safety to off-set best use of resources.</i> 	<ul style="list-style-type: none"> <i>Less waste.</i> <i>Collaboration.</i> <i>minimal extra costs.</i> <i>Collaboration and everyone contributing to the same cause.</i> <i>Reduction in duplication.</i> <i>Barriers – change in working practices.</i> <i>Changing technical specifications for Supplier IVDR/UKCA/Technical files/ Stability.</i> 	<ul style="list-style-type: none"> <i>Talk to Suppliers on Long/ Medium and Short term possibilities.</i> <i>Include in Tech Specs.</i> <i>ICS and area collaborations.</i> <i>Work with suppliers for stability evaluations.</i> <i>Forecast and Measure benefits.</i>

Key Supplier Reviews

Current Activities	Future Activities	Engagement	Opportunities/ Barriers	Action
<ul style="list-style-type: none"> • <i>Operational.</i> • <i>Technical.</i> • <i>Performance.</i> • <i>TAT.</i> • <i>Product performance.</i> 	<ul style="list-style-type: none"> • <i>Supply Chain alignment – delivery/ technical/ waste/efficiency/ <u>shared goals</u></i> • <i>Continual improvement and innovation encouraged.</i> • <i>Switch to other products if more sustainable.</i> • <i>Reduce single use.</i> • <i>Increase re-use.</i> • <i>Recycle.</i> 	<ul style="list-style-type: none"> • <i>Suppliers – Sustainable Design and waste solutions.</i> • <i>Facilities – collaboration.</i> • <i>ICS – collaboration with councils and waste companies.</i> • <i>End users – best point of safety to off-set best use of resources.</i> • <i>Procurement – change control methods.</i> 	<ul style="list-style-type: none"> • <i>Less waste.</i> • <i>Collaboration.</i> • <i>minimal extra costs.</i> • <i>Collaboration and everyone contributing to the same cause.</i> • <i>Reduction in duplication.</i> • <i>Barriers – change in working practices.</i> • <i>Contracts to include expectations.</i> • <i>KPI's to include operational requirements.</i> • <i>Barriers – commitments and work practices.</i> 	<ul style="list-style-type: none"> • <i>Talk to Suppliers on Long/ Medium and Short term possibilities.</i> • <i>Include in Tech Specs.</i> • <i>ICS and area collaborations.</i> • <i>Work with suppliers for stability evaluations.</i> • <i>Forecast and Measure benefits.</i> • <i>Shorter contracts for identified future innovations.</i> • <i>Line by line tech spec review to include Sustainability elements.</i>

Work Experience/ Training

Current Activities	Future Activities	Engagement	Opportunities/ Barriers	Action
<ul style="list-style-type: none"><i>In house.</i><i>Local college/ university.</i><i>IBMS (Sheri Scott)</i>	<ul style="list-style-type: none"><i>Industry placements.</i><i>Day in the life.</i><i>Apprenticeships.</i><i>New processes.</i>	<ul style="list-style-type: none"><i>Suppliers.</i><i>ICS.</i><i>End users.</i><i>Procurement</i>	<ul style="list-style-type: none"><i>Knowledge sharing.</i><i>Social value.</i><i>Local benefits.</i><i>Help suppliers achieve their NHS requirements.</i><i>Everyone on the same page.</i><i>Share resources.</i><i>Barrier – quality risk if managed incorrectly.</i>	<ul style="list-style-type: none"><i>Talk to Suppliers on Long/ Medium and Short term possibilities.</i><i>Include in Tech Specs.</i><i>ICS and area collaborations.</i><i>Work with suppliers/local employers.</i><i>Forecast and Measure benefits.</i><i>Line by line tech spec review to include Sustainability elements.</i>

Collaboration for Our NHS, Our Net Zero



- Its not a competition – Collaborate with Suppliers and End Users to meet each other's objectives.
- Tools and Best Practice – other Contracting bodies E.g. Councils.
- Plan/ Plan/ Plan – include sustainability and Net Zero in your work practices and tech specs – don't just have arbitrary inclusions at tender stage so you can really affect change.
- Review the innovations yourselves – market analysis – it is not anti-competitive or illegal at any point – even if you are in contract.
- Change if there is something better. It drives innovation.
- Training.
- Compromise.
- Be prepared to change direction if something doesn't work.
- Don't Penalise/ Do Encourage.
- Not everything is suitable for everyone.
- Look at long term changes to implement in more detail than short term – limited opportunities E.g. facilities and products.

Thank You!
Any Questions?

