



# DECARBONISING BRITAIN

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HOW PLAN ZERO IS MAKING IT HAPPEN





# Plan Zero

## Decarbonising Britain How Plan Zero is making it happen

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Plan Zero is Mitie's comprehensive, practical approach to achieving Net Zero carbon. It draws upon our empirical, proven experience deploying the kind of carbon reduction measures that have enabled the company to confidently state it will reach Net Zero carbon by 2025 – a whole 25 years ahead of UK Government targets.





**“We are committed to achieving Net Zero emissions by 2025 (Scope 1 and 2) and 2035 (Scope 3)”**

Mitie Group



## This is Plan Zero



**Mitie is the UK's leading facilities management company. We look after the places where Britain works, from banks and retailers, to hospitals, schools and critical strategic government assets. We help to create and maintain efficient, safe, clean, and sustainable workspaces.**

Mitie's knowledge of customer estates and fleet, combined with our ability to execute a zero carbon strategy from assessment through to delivery is, we believe, unrivalled. We help organisations go further, faster, for less.

Mitie has committed to reaching net zero carbon a whole 25 years ahead of UK Government targets\*. We will reach this milestone by implementing a series of measures that fall under our 'Plan Zero' initiative.

Mitie knows there is much that can be done to mitigate and perhaps even reverse some of the causal effects of climate change. We are committed to sharing our expertise in partnership with UK organisations looking to set, certify, and exceed sustainability and carbon targets.

As experts in managing buildings, and with our own ambitious decarbonisation plan, Mitie is well placed to help organisations to accelerate their net zero journeys. By helping to set and deliver their strategies to reach net zero, we help organisations reduce carbon and costs.

**This is Plan Zero.**



\*direct operational (Scope 1 and 2 emissions)



# Making it Happen

Plan Zero combines Mitie's detailed property and fleet knowledge with our extensive carbon and energy reduction capabilities to design bespoke cost and carbon reduction strategies for organisations.

Our Plan Zero Consultants are experts in the built environment, renewable energy, transport and e-mobility, waste resources and biodiversity net-gain. Setting stretching targets and developing compelling commercial models, we make net zero happen.

Plan Zero applies to all organisations regardless of net-zero strategy maturity, organisation size or sector.

Whether you need advice for a single site, a carbon-intensive operational activity, or full end-to-end decarbonisation for your entire organisation, we are here to help you develop your strategy.

## Plan Zero is delivering results for organisations across the UK

<b>353,000</b>	Tonnes of carbon saved
<b>2,800+</b>	Energy surveys in FY20/21
<b>£19m</b>	Savings through optimisation
<b>90%</b>	Waste is reused, recycled or recovered

# Sustainability Strategy



Designing and setting a net zero operational carbon strategy across an organisation is complex. Often organisations have committed to a carbon reduction target without identifying the steps needed to reach their goal.

Our sustainability consultants assess an organisation's operational carbon, defining solutions, timescales and commercial models to achieve net zero. We call this a Plan Zero Pathway.

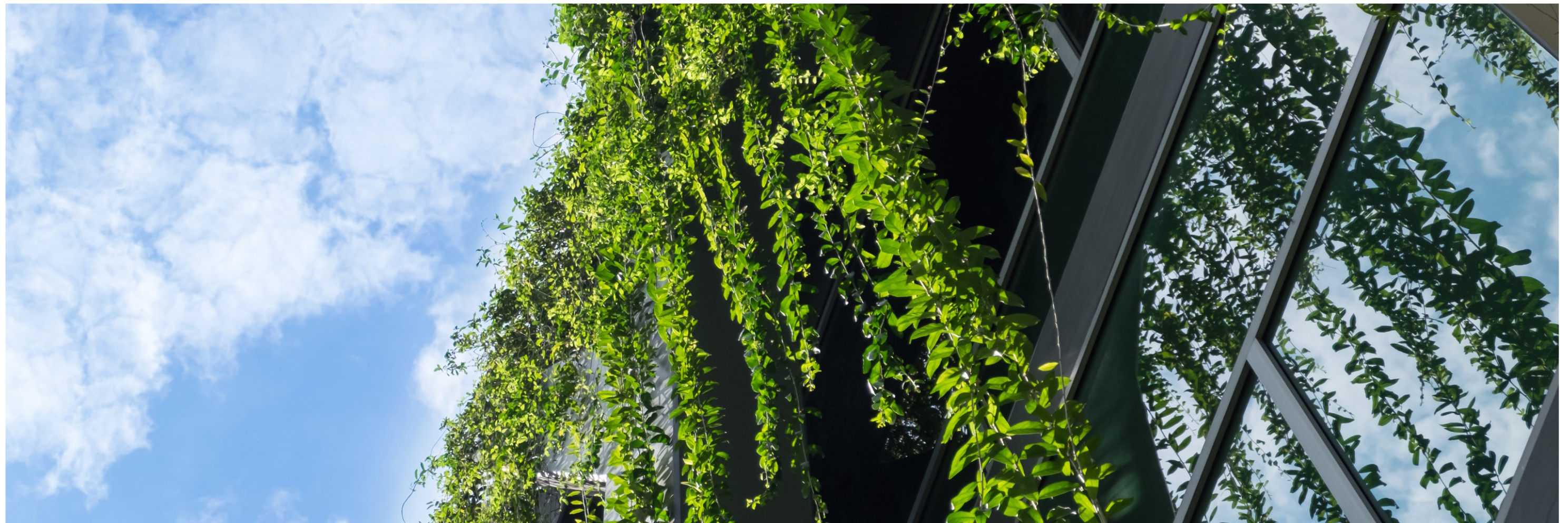
A Plan Zero Pathway will detail how to achieve the net zero targets using operational efficiency measures, low carbon 'green technologies', transport and e-mobility solutions, renewable energy procurement, waste reduction and biodiversity schemes.

Because we are technology and supplier agnostic, we develop optimised solutions best suited to the client and their facilities.

## Did you know?



Plan Zero Pathways use our in-house expertise in buildings, fleet and carbon management to maximise opportunities to achieve Zero Carbon, Zero Waste and Biodiversity Net-Gain.





# How we achieve Zero Carbon, Zero Waste and Biodiversity Net-Gain



## Buildings

Non-domestic buildings are responsible for 40MtCO<sub>2</sub>e of UK emissions annually\*, and reducing this carbon from the built environment is critical if the UK meets our Net Zero targets. Organisations must first minimise and then eliminate their use of fossil fuels by replacing fossil fuel heating with clean alternatives.

Plan Zero Built Environment Consultants work with our customers to review and evaluate facilities to identify opportunities to reduce their carbon footprint. A range of potential solutions will be developed and assessed, including quick-to-deploy low-cost energy efficiency and optimisation initiatives, SMART digital solutions, low carbon heating & cooling installations, and onsite renewable power generation.

Working with our in-house experts, our consultants will develop a detailed strategy, including commercial structures, and upon approval to proceed, we install, commission, and maintain the technology.

## Energy

The utilities landscape is complex and volatile. Organisations face pressure to reduce their carbon footprint, control costs and ensure the security of supply. According to the International Renewable Energy Agency (IRENA), renewable energy is now the cheapest form of electricity generation, enabling faster renewables adoption.

Plan Zero Renewable Power Consultants help our clients to understand which renewable energy solutions would best suit their sustainability objectives and risk appetite. We provide a complete end-to-end service from building a renewables strategy through tendering for Power Purchase Agreements (PPA), to reporting on the performance of chosen projects and the administration of the Renewable Energy Certificates.

## Did you know?



As a market leader in energy markets and renewable power, our in-house energy experts advise on over 17.8 TWh of renewable generation.



\*[www.gov.uk/government/publications/heat-and-buildings-strategy](http://www.gov.uk/government/publications/heat-and-buildings-strategy)



# How we achieve Zero Carbon, Zero Waste and Biodiversity Net-Gain



## Transport

Greenhouse gas emissions from the transport sector in the EU have grown by 33% since 1990, as those from other sectors have decreased. This industry will become the most significant contributor to emissions in Europe.

As a result, electric vehicle (EV) adoption is accelerating fast and forecast to grow even more rapidly over the coming decade, resulting in a significant demand for public and private charging infrastructure. Fleets are a primary driver of early adoption, as companies commit to rapid transitions as part of their net zero agendas. They will require tailored and end-to-end solutions to support the electrification of their vehicles.

Plan Zero e-Mobility Consultants support customers in developing their fleet transition strategy and understanding the implications of switching to EVs. They analyse customers fleet makeup and usage to create a vehicle transition road map, as well as design full turnkey EV charging infrastructure solutions tailored to their operational needs. Working with our in-house experts and supply-chain partners, we design, install, commission, operate and maintain technology-agnostic charging infrastructure, ensuring we partner with our customers along their journey to zero emissions transport operations.



## Waste

Regardless of the business activity, waste will be generated. Estimates suggest that in 2019 in England alone 37.2 million tonnes of commercial and industrial waste were generated\*. This has both cost and environmental implications.

Plan Zero Waste Consultants develop waste management strategies for our customers, maximising the ability to reduce waste and recycle more, controlling and reducing costs, improving efficiency and helping to achieve carbon targets.

From analysing waste composition to bringing redundant resources back into use for the benefit of communities, to developing bespoke education and awareness campaigns, they will ensure that the customer organisation minimises its impact on the environment.

Plan Zero pledges to remove single-use materials wherever possible, this is our 'Resource not Waste' philosophy.

### Did you know?

We strive for our clients to achieve zero waste, and we send over 90% of the material for reuse, recycling or recovery.



\*[https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\\_data/file/1002246/UK\\_stats\\_on\\_waste\\_statistical\\_notice\\_July2021\\_accessible\\_FINAL.pdf](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/1002246/UK_stats_on_waste_statistical_notice_July2021_accessible_FINAL.pdf)



# How we achieve Zero Carbon, Zero Waste and Biodiversity Net-Gain



## Biodiversity

The UK is one of the most nature depleted countries globally; 15% of UK species are threatened with extinction\*.

Incorporating measurably better biodiversity (Biodiversity Net Gain or BNG) into an organisation's land management strategy has a meaningful environmental impact and makes a clear statement of intent to stakeholders.

Plan Zero Ecology Consultants design turnkey solutions that generate BNG that can be measured for years to come.

Our process is flexible, adapting to the surrounding landscapes, creating nature corridors and connectivity for wildlife.

Mitie is a patron of **Plantlife**.

## Commercial

As organisations take responsible action to improve their trajectory to Net Zero, whole business operations are being transformed. Organisations who set out with a coordinated programme to achieve net zero will get there faster and for less.

Some organisations have access to inhouse R&D expertise and budgets, but with significant investment requirements and a multitude of options for deployment, collaborating with expert partners who bring experience of innovative solutions can enable access to sustainable, competitive business models.

Plan Zero Commercial experts co-create commercial structures to best suit deployment plans, your business commitments, considering overall business cashflow and balance sheet concerns, designed specifically to accelerate your journey to net zero.

Using our expertise we will structure the program to enable competitive commercial structures, connecting to private finance solutions, government grants and public funds where best suited.



\*<https://nbn.org.uk/wp-content/uploads/2019/09/State-of-Nature-2019-UK-summary.pdf>

**Decarbonisation Funding**

Through our partnership with Sustainable Development Capital LLP (SDCL) we support public & private sector organisations to fund and roll out large-scale decarbonisation projects for their estate.



# Meet our Consultants



**Paul Taylor**

Paul.Taylor@mitie.com

Paul is a sustainability specialist in building energy, compliance and ESG with over 20 years of public and private sector experience.

He collaborates with our customers to understand all greenhouse gas emissions and develops net zero targets and pathways, providing technical and strategic advice.

Paul has focused on energy and sustainability in the built environment, both nationally and internationally.



**Alex Payne**

Alex.Payne@mitie.com

Alex is an energy specialist with over 20 years of experience working for suppliers and consultancies.

Responsible for the Mitie energy advisory team, Alex makes certain its specialists empower clients to achieve carbon objectives through renewable energy solutions.

He holds a Chartered Institute of Procurement and Supply (CIPS) Level 4, ensuring Mitie Energy tendering practices are fair and transparent.



**Lucinda Lay**

Lucinda.Lay@mitie.com

Lucinda has worked on sustainability in the built environment for over 10 years.

Biodiversity has been a long running theme through Lucinda's career starting with her degree in Biology and MSc. in Environmental Assessment and Management.

At Mitie, Lucinda now leads on Biodiversity Net Gain and nature based solutions.



**Alex Avila**

Alex.Avila@mitie.com

Alex leads Mitie's E-Mobility business unit, helping clients enable and manage their fleets' decarbonisation.

Alex's team supports clients by designing, delivering and operating technology-agnostic electric vehicle (EV) charging infrastructure solutions.

Alex studied Mechanical Engineering at Imperial College London. He was recently part of KPMG's Future Mobility Strategy leadership team and builds on over 10 years of experience working in the energy, infrastructure and transport industries.



**Isobel McGlashon**

Isobel.McGlashon@mitie.com

Isobel has 27 years of experience as a waste industry specialist managing best-practice waste reduction strategies.

Her specialist area includes providing solutions to reduce carbon and embed her clients in a circular economy using the waste hierarchy principles.

A Lancaster University graduate, she is also a Chartered Waste Manager attained from the Chartered Institute of Wastes Management (CIWM).



**Matthew Dale**

Matthew.Dale1@mitie.com

Matthew has been in the Automotive industry for over 35 years and has been involved in EV's for the last 10 of those, in both passenger cars and light commercial vehicles.

Matt's last 6 years have been focused on helping fleets transition from Internal Combustion Engine (ICE) to EV and other forms of e-Mobility.

Having previously worked in both vehicle manufacturing and within the dealer network, he has a very broad view of the motor industry and takes a holistic approach to e-Mobility and the transition to low carbon mobility.



# Plan Zero BoltON

**Organisations must act to reduce their impact on the climate.**

Plan Zero from Mitie is our unique end-to-end decarbonisation solution, supporting customers to set and deliver their strategy to reach net-zero, reducing carbon and cost.

**Plan Zero BoltONs** are exclusively available for existing Mitie customers, making the journey to net-zero even easier.

**BoltONs** are quick to deploy net-zero modules that can be easily scaled depending on the needs of the business.

**BoltONs** require no upfront investment and have been designed to ensure that even companies with small budgets can implement the solutions they need for their journey to net zero.



# BoltON SHINE



Using solar panels to generate electricity on your sites can save carbon emissions while significantly reducing energy cost.

**BoltON** a Solar PV installation to your facilities, incurring no upfront costs while generating renewable electricity that's at least 25% cheaper than your current electricity cost.

**BoltON SHINE** suits organisations who:

- Have a large site with a roof or other open space
- Are suffering increased costs due to rising energy prices
- Want to meet net-zero obligations and enhance their ESG performance
- Do not have immediate access to capital budgets



**BoltON from**  
**8p per kwh**



## BoltON CHARGE

The growth in EVs on the road means employees and visitors expect convenient charging facilities.

**BoltON** fully designed, installed and maintained EV charging points deployed at scale in your car parking facilities, with no capex investment.

**BoltON CHARGE** suits organisations who:

- Have an increasing number of EVs at their site(s) and need to future-proof their carparks for mass deployment of EV chargers
- Want a full turnkey, hassle-free solution to deploy charging infrastructure
- Want to meet net-zero obligations and enhance their ESG performance
- Do not have immediate access to capital budgets



## BoltON GLOW



Switching fluorescent and halogens lamps for energy efficient LED lighting is a highly effective sustainability measure.

**BoltON** a managed lighting service to reduce your energy consumption, carbon footprint and maintenance costs. Deployment of efficient and compliant lighting is achieved quickly and at scale.

**BoltON GLOW** suits organisations who:

- Have inefficient lighting throughout their buildings
- Want to protect themselves against rising energy prices
- Want to meet net-zero obligations and enhance their ESG performance
- Do not have immediate access to capital budgets





## BoltON PULSE

Building Energy Management Systems (BEMS) control assets that consume energy within your property.

**BoltON** a technology refresh of your existing BEMS or have a new system installed to improve building performance and efficiency saving upwards of 25% of your energy costs.

**BoltON PULSE** suits organisations who:

- Have a faulty, end of life or partially integrated BEMS' in their buildings
- Have frequent complaints about comfort conditions from their building users
- Have a desire to create connected, SMART environments for their building users
- Want to meet net-zero obligations and enhance their ESG performance
- Do not have immediate access to capital budgets



## BoltON HEAT

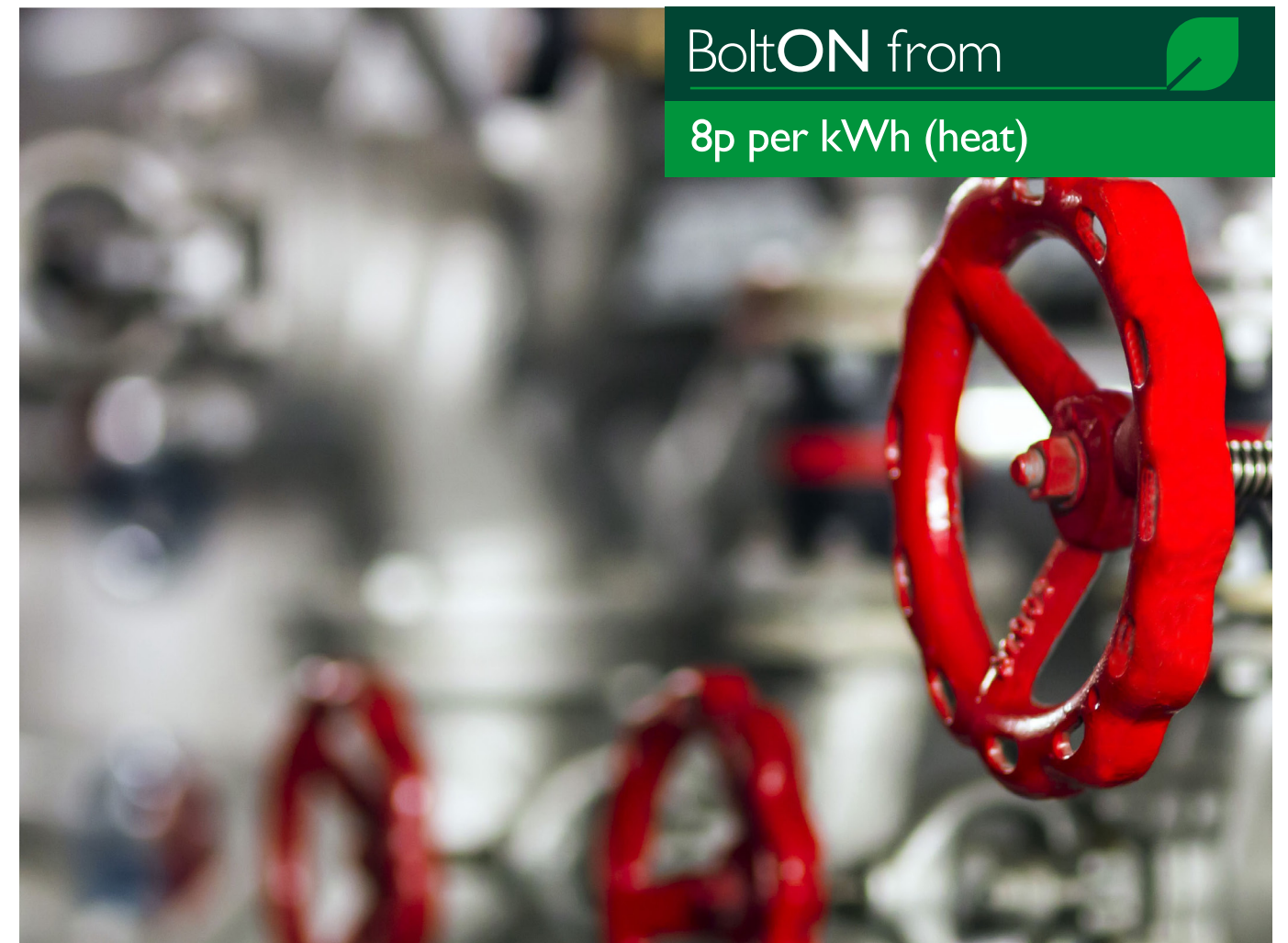


A heat pump installation with no upfront cost for your organisation, significantly reducing carbon emissions to you help achieve your net zero targets.

**BoltON** a low-carbon heating solution to replace your existing fossil fuel fired boiler.

**BoltON HEAT** suits organisations who:

- Have existing boilers that are reliant on fossil fuels
- Have equipment that is nearing end of life, obsolete or fails frequently resulting in complaints
- Want to meet net-zero targets and enhance your ESG performance
- Do not have immediate access to capital budgets





# Plan Zero BoltON

Plan Zero BoltONs are quick to deploy, high impact 'plug'n'play' decarbonisation modules.

Each BoltON uses a standard, scalable design specification.

There is no fee until the BoltON module is live.

Buy as single, multiple, or combined BoltON modules to build the solution that suits your facilities.

Each BoltON is fully compatible with Plan Zero Pathway programmes, future proofing your net-zero strategy.

Speak to your Mitie Account Manager for further details or contact our BoltON experts directly.

[planzero@mitie.com](mailto:planzero@mitie.com)





planzero@mitie.com  
planzerocarbon.com  
@MitiePlanZero