

WILLIAM TURNER

**Banner  
Group Carbon  
Reduction Plan**

June 2025

# Energy

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## Energy background

### **Actions**

- Continue to systematically read and log EVERY electricity meter on the first working day of every month
- Regularly review energy tariffs wrt. overall price and requirements
- Continue process of moving to a 100% renewables tariff for each retail site and Distribution Centre
- Keep evaluating the financial viability of the various ways to install a PV system on the Canal Rd warehouse roof

## Mains-gas

### **Actions**

- Log readings on all gas meters on first working day of every month

## Solid fuel

### **Actions**

- Note: Carbon is NOT calculated - kWh are (for ESOS) but CO<sub>2</sub>e isn't ...

## LPG

### **Actions**

## Fuel Oil

### **Actions**

- Replace the oil boiler in the Appian Rd warehouse
- Research what are viable replacement forms of heating for when the oil boiler is removed at Appian Rd

## Heating, cooling, control, insulation

### **Actions**

- Confirm schedule for servicing the boilers at the Minster Way and Appian Rd sites
- Check type and age of heating boilers at the Casterbridge sites
- Compile an inventory of heating equipment at all Wherit premises - type, fuel, age, maintenance schedule
- Check how thermostat settings are adjusted in each room
- Check how thermostat settings are set and adjusted for large shared spaces
- Find details of air conditioning systems - are temperature controls well integrated with heating systems?
- Check maintenance records of ALL chiller units for refrigerant top-ups - a few leaked Kg equates to tonnes of
- CO<sub>2</sub>e on the footprint
- Check EVERY air conditioning system
- Locate thermostats for retail space and shared workspace
- Review all set points for space heating and cooling
- Monkhouse Bedminster: consider fitting air-extractor fans in downstairs middle room
- Monkhouse Bedminster: investigate fitting sun-pipe in upstairs store for passive ventilation with natural light
- Check doors and windows for draughts - generally the quickest, cheapest way to cut cost & carbon
- In Tewkesbury Distribution Centre, look into fitting draught strip on the roller-blind doors
- Check all windows on a cold day - log any which are feeling notably cold or draughty
- Inspect and re-draughtproof all leaky doors and windows
- Review building insulation at ALL sites (including retail premises)
- Review roofspace insulation in all buildings
- Check that all hot water tanks and pipes are fully lagged
- Check in each plant room that all hot-water valves and controls are lagged (not left bare!)

## Electrical equipment

### **Actions**

- Continue 'switch-off' campaigns: make sure everyone knows which kit can be turned off when - and does so
- Liaise with IT to ensure sure sleep mode is appropriately set on ALL computers, printer/copiers & other kit
- Compile an inventory of all large electrical equipment (say, more than 2 kW)
- Work out the most appropriate automatic / manual switch-off regime for EACH item of large electrical equipment
- Check that all electric pumps on any site are included in the 'large electrical equipment' inventory
- Check that large electric pumps have variable speed motors wherever possible (they're up to 50% more energy efficient)
- Review energy efficiency and usage patterns of equipment in staff kitchens - modify use or type?

## Lighting

### **Actions**

- Continue programme of upgrading lamps, reflectors & fittings to more efficient types (eg. LEDs, better reflectors etc)
- Review switch-off behaviours of staff: time for a refresher switch-off campaign?
- Investigate fitting presence sensors where appropriate (eg. loos and infrequently used rooms, corridors, and areas)

## Refrigeration

### **Actions**

- Check efficiency and condition of all fridges (eg. motors running excessively, exteriors feeling cold to the touch)
- Review siting of all fridges - are they located next to a heat source (eg. a still or oven) which increases their loading?
- Check condition of door seals on all kitchen fridges. Intact? Forming a good seal? Noticeably cold to finger?
- Ensure that whoever has responsibility for the kitchens checks the fridges regularly

# Travel

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## Vehicle travel

### **Actions**

- Develop ways to encourage carbon-efficient modes of transport for business travel (eg. train & hybrid travel)
- Investigate feasibility of operating hybrid-electric / battery-electric company vehicles

## Public-transport travel

### **Actions**

- Draw up a plan to use public transport in preference to private vehicles wherever possible

## Commuting travel

### **Actions**

- Review how staff at all sites commute
- Investigate potential means of low-energy commuting - eg. ride-sharing systems, salary purchase schemes

## Travel Management

### **Actions**

- Document vehicle model and fuel type of all company-owned vehicles
- Produce a definitive list of "grey fleet" vehicles, including all staff-owned vehicles used for business travel
- Investigate type and availability of public transport options from sites other than Cookley
- Document monthly mileage of each company-owned vehicle (to improve accuracy of carbon footprint)
- Consider offering driver training to all drivers (which typically reduces fuel use by 8%)
- Continue to log tonnage and mileage (tonne.miles) of all freight services procured
- Formalise and track any 'working from home' arrangements - who, how much, and in what working patterns?

## Travel planning

### **Actions**

- Draw up a Staff Travel Plan
- Consider providing encouragement, information and support for staff ride-sharing
- Begin logging visitor travel - travel mode, vehicle type, and mileage

## Waste

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### **Waste**

#### **Actions**

- Continue to track tonnages of all solid waste produced and how it is processed
- Continue to use a waste management company who provide excellent reporting (ie. Futur)
- Monkhouse: Move all waste contracts to service providers who provide full and accurate data
- Continue to develop the waste minimisation plan - it works
- Continue to develop a 'circular' approach to use of all materials (products and packaging)

## Purchasing

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### **Supply-chain management**

#### **Actions**

- Continue to develop complete list of suppliers containing all the info necessary for calculating their contribution to the scope 3 carbon footprint

## Purchasing criteria

### **Actions**

- Adapt the purchasing process so that it routinely assesses environmental criteria at the supplier qualification stage
- Decide then document which environmental criteria should be applied to any potential purchase
- Plan what elements of 'circularity' need to be asked of suppliers - eg. use of recycled materials, end-of-life
- treatment of fabrics, take-back criteria ...
- Make it part of the procurement qualification process to ask suppliers for their carbon footprint and carbon intensity
- Offer to assist suppliers in calculating the carbon intensity of their operations
- Make it part of the procurement process to ask about reclaimed and recycled material in products

### **Purchasing policy**

#### **Actions**

- Integrate all 'green purchasing' criteria as a formal green purchasing policy
- As purchasing criteria are developed, make sure they remain consistent with Banner's wider environmental policy
- Define WHOSE job description includes keeping green-purchasing criteria in line with overall environmental policy

# Air emissions

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## Air-emission sources

### **Actions**

- Make sure that any leak of mains gas is tracked as part of routine maintenance

## Refrigeration / air conditioning

### **Actions**

- Demand that ALL air-conditioning maintenance contractors CLEARLY flag any refrigerant top-ups
- Keep on-site logs of chiller maintenance - don't rely solely on contractors to schedule reporting and log top-ups
- If necessary, insist that contractors provide and maintain a copy of the chiller maintenance log on site
- Independently maintain a log (likely a spreadsheet) listing all chillers with dates of all their refrigerant top-ups

## Boiler emissions

### **Actions**

- Ensure that all gas boilers are fully maintained and run as efficiently as their design allows
- Start NOW to plan for the phase-out of gas boilers - what alternative form of heating will be provided at each site?

## Solvents

### **Actions**

- Track any use of solvents - many are greenhouse gases...

## Transport refrigeration

### **Actions**

# Water

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## Water Supply

### **Actions**

- Log volume of mains water used from each water bill
- Do a cost-benefit analysis on installing rainwater harvesting at the larger sites - do volumes used justify cost?

## Bathroom / kitchen water

### **Actions**

- When bathrooms are refurbished fit efficient fittings (eg. low-flush cisterns, urinal controls, IR operated taps)

## Process water

### **Actions**

## Effluent /Sewerage

### **Actions**

- Check on a water bill the percentage of mains water assumed to go to sewer (usually 95%)
- Make sure that any fuels or chemicals stored have adequate containment fitted (120% of volume stored)
- Ensure that adequate spill-response kits are a) in place, and b) fully equipped
- Make sure that all staff have received and are up-to-date with spill-prevention training

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