

COVENTRY & WARWICKSHIRE
GREEN BUSINESS
PROGRAMME

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ENGINE



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What is it?

- A support funded programme for SMEs and organisations in Coventry and Warwickshire to help business become more energy/resource efficient and make the most low carbon opportunities

Who?

- All small to medium size businesses (SMEs) in Coventry and Warwickshire
 - Employ fewer than 250 employees
 - Have an annual turnover of not exceeding €50 million and/or an annual balance sheet not exceeding €43million
 - Have at least 50% of sales through business to business



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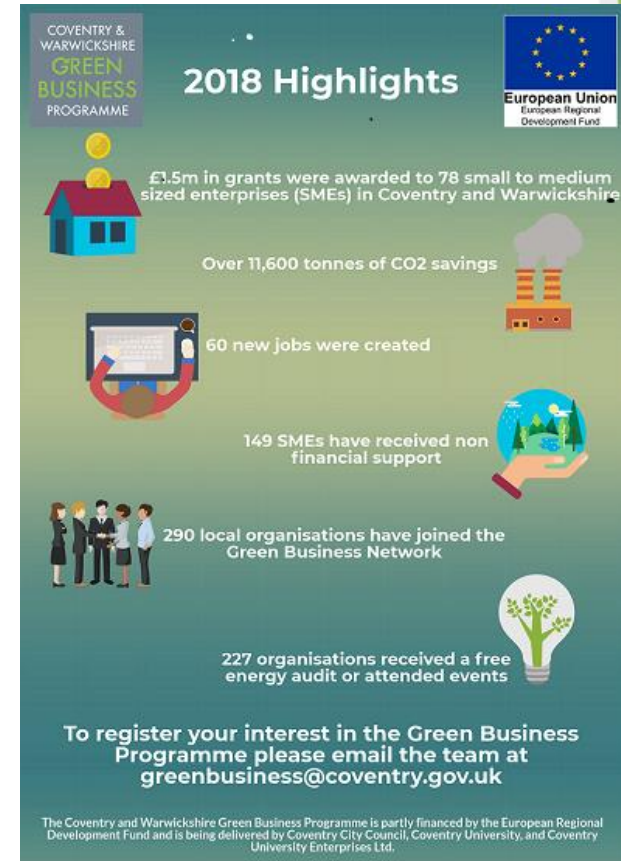
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Our Highlights

Helping businesses to reduce their impact on the environment through funding for energy efficiency and renewable energy powered solutions

- We have supported **213** companies since the Programme launched
- There have been over **12,349 tonnes** of CO2 savings
- Provided over **£2.78 million** in grant funding to support these businesses
- 60 new jobs have been created
- 1078 organisations have joined the Green Business Network



powered by
PIKTOCHART

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Phase 2– (2019-2021)

- Energy and resource efficiency grants - £1k-£50k (with 40% intervention)
- Free energy and resource efficiency audits to help identify energy, water and waste savings
- Continued free membership to the Green Business Network
- Access to other specialist support to enable growth and innovation
- Free events, workshops, webinars and 1:1 support

Extension – (June 2023)

- Confirmation that additional £1.14m grant funding
- Additional £118k revenue grants
- Provided by Coventry City Council & Coventry University Enterprises



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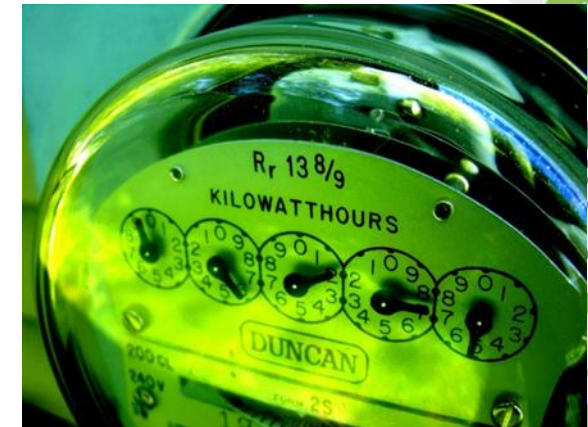
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Energy/Resource Efficiency Audits

Identify potential energy/resource efficiency measures

- Audit looks at: Building fabric, energy bills, heating, lighting, equipment, process, water, waste, behavioural
- Includes estimated capital costs, energy savings & payback periods – used to provide a business case
- Energy/resource efficiency report



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- Energy/resource efficiency grants
 - Capital grants to improve energy/resource efficiency (Min £1K up to £50k)
 - Grants of 40%
 - Must save approx. 5 tonnes+ of CO₂ per year.
- What can be supported?
 - Measures that save carbon
 - Typical measures include lighting - LED, heating, energy efficient equipment, transformers, power factor correction, renewable technologies, ventilation, refrigeration, recycling and waste - compactors, balers and crushers



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Green Business Network

Membership is free and offers a range of benefits:

- Events and workshops
- Monthly newsletter – news, events new legislation, case studies
- Membership certificate
- Expert advice
- Enhance green credentials to secure new business
- Networking and supply chain opportunities (Inclusion in Green Business Directory)
- Currently have 1078 other organisations you can network with
- Signposting to other grants
 - ▶ Business Support
 - ▶ Innovation
 - ▶ Skills 4 Growth

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NETWORK



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Upcoming Events and Webinars

30 June 2020

- Coventry's Clean Transport Strategy – Webinar

Date TBC 2020

- Smart Cities – Coventry Transport Museum

For more information visit <http://bit.ly/cwgreenevents>



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Coventry University Enterprises – Delivery Partner

Funds for services and consultancy

Revenue Grants up to £10k (40% intervention) to support the development of low carbon products and services, supporting activities including:

- Intellectual Property Protection
- Supporting new businesses to progress their innovations
- Licensing
- Prototype design and manufacture
- Product Testing
- Accreditations and Certifications

Examples of grants awarded:

- Prototype design and manufacture for hydrogen fuel cell vehicle
- Software application development for an App to enable carbon reduction by promoting car sharing




**Coventry
University**
Enterprises Limited



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Coventry University Enterprises – Delivery Partner

Funds capital expenditure

Capital Grants up to £20k (40% intervention), supporting activities including:

- Equipment to manufacture new Low Carbon products
- Equipment to support introduction of new Green services including recycling and waste processing

Free expert 1-to-1 advice and workshops on a range of sustainable building techniques and technologies

- Passivhaus design and principals
- Sustainable refurbishment and energy efficiency strategies
- Building Information Modelling (BIM)




**Coventry
University**
Enterprises Limited



What we do

- Confidential environmental management assistance
- Provide bespoke registers of environmental and health and safety legislation
- Confidential site specific environmental legislation compliance audits
- Support clients with their environmental management systems to maintain ISO14001:2015

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<https://www.coventry.gov.uk/businesssustain>

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➤ Coventry's Climate Change Strategy

- UK Government announced its net-zero commitment by 2050
- Coventry's current strategy published in 2012 set a target to reduce carbon dioxide emissions by 27.5% by the year 2020. Coventry achieved this in 2014 (6 years early)
- The current Climate Change Strategy for the City ends in 2020 and is now under review



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➤ CDP A List City 2019

- The City has been recognised as a global leader on climate action and transparency
- To score an A, a city must have a city-wide emissions inventory
- Have set an emissions reduction target
- Published a climate action plan





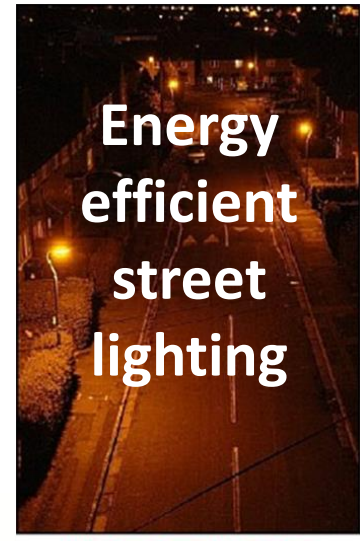
Reducing our emissions across the City



Heatline – energy shipped from waste plant via 6.6km pipelines to major City Centre buildings.



270 charge points have been installed



Existing Street Lighting



New Street Lighting



Electric taxis operating in Coventry with more on the way.



Electric Vehicle Charging

- Coventry City Council have partnered with EO Charging
- Purchasing & installing electric vehicle chargers throughout the city and region
- Also £350 grants available for organisations to install an EV charger
- Up to 40 chargers can be claimed per company
- Find out more - <https://plugincoventry.org>



Park That Bike

- Transport for West Midlands have launched Cycle Parking
- Businesses can apply for free bike racks at their premises
- Encourage more cycling
- Apply at Transport for West Midlands





EV charging and solar

and power plant

Low carbon research facilities

Hydroelectric power generation

Smart traffic management

EV charging points

Retail

Manufacturing

Smart LED lighting

Air source heatpumps

Anaerobic digestion

Low carbon power generation

Recycling

Low carbon buildings

Data Institute

BREEAM excellent buildings

Connected and autonomous vehicles

EV charging points

District heating

Electric buses and taxis

Energy storage batteries

Very light rail

Flexible industrial energy

Waste to energy plant

FACTORY

PAULSTRAALD

SUPERSTORE

Coventry's Climate Change Strategy

The Council is very committed to tackling climate change in the City

- Our new Head of Service, Bret Willers will be overseeing and developing our new Climate Change work
- Strategy will ensure that Coventry is at the forefront of low carbon innovation
- Climate Change Strategy will require significant engagement with stakeholders in the City, including businesses, residents, universities, health providers and community groups
- Green Business Programme extension confirmed – work with more businesses



Key players in Coventry

- **Universities** - Coventry University and Warwick University
- **Schools and Colleges**
- **Utilities** – Severn Trent and E-On
- **Power** – Western Power & National Grid
- **Transport** – National Express & Avanti Trains
- **Automotive** – Jaguar & LEVC
- **Infrastructure** – BIC
- **Housing** – Orbit, Whitefriars & Developers
- **Health** - Public Health England, UHCW & Coventry and Warwickshire Partnership NHS Trust
- **Industry** – Amazon, Sainsburys Ansty Park, McDonalds Distribution Centre
- **Community** – Community Groups, Charities, Residents, Businesses
- **Regeneration & Culture** – City of Culture 2021, Historic Coventry & WWT



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Case studies of organisations that are going green



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3P innovation

- World-class engineering and process automation company based in Warwick
- Invested £395,000 to reduce carbon emissions
- £69k energy efficiency grant
 - LED energy efficient lighting throughout the building
 - New high efficiency gas fired modulating heaters that save 30% on fuel costs
 - High performance air conditioning system
 - New air compressor achieving savings of between 20% and 30%
 - Installation of solar panels
- Estimates saving 153.3 tonnes of CO2 emissions per year
- 290,000kWh of energy usage having been reduced



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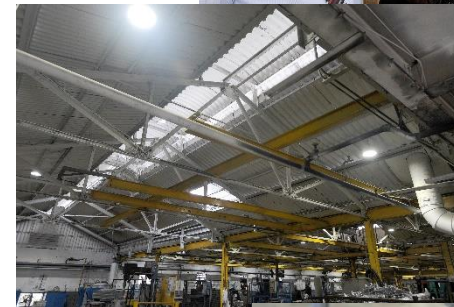
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Sarginsons

Aluminium Diecasting

- Were spending £370,000 per annum electricity and gas
- £26,000 energy efficiency grant
 - 2 recuperation gas furnaces
 - Variable speed air compressors and drying equipment
 - LED lighting throughout
 - Power Factor Correction
- Payback – 1.5 year
- 335 Tonnes CO2 saving/ annum
- Saving £50k per annum in energy bills



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Technoset

Engineering business based in Rugby

- Make their premises more eco-friendly and save them money on bills
- £47,000 energy efficiency grant (invested £117k)
 - LED energy efficient lighting throughout the factory
 - Extension of the heat ducting from Factory 2 into Factory 1
 - Installing a shut off switch on the roller shutter door
 - Installing a new solvent based component cleaning machine
- Technoset anticipates to see their energy bills drop by 33%
- Helping to reduce 62 tonnes of CO2 emissions per year.



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2020 Queen's Award for Enterprise



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Contact us

Telephone: 024 7697 2046

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Website: www.coventry.gov.uk/greenbusiness

Twitter: [@cwgreenbusiness](https://twitter.com/cwgreenbusiness)

Join our LinkedIn group



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REMOTE ENERGY AUDITS
Green Business Team
June 2020



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Agenda:

- Audit offer & requirements
- Remote options x 3
- Evidence to provide
- Follow-up phone survey
- Advantages
- Concerns



Energy Efficiency Grants

Two parts:

1. Grant funding, as per Denise's presentation
2. Energy audit for your business:
 - **Carbon** saving
 - **Maximising** opportunity



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Business energy audits

- Energy audits (worth £840) carried out FOC on site
- Alongside funding for specific items
- ***A requirement for funding***
- Can add value to funding application



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Funding for things like:

- **Lighting** - **LEDs**, controls, sensors
- **Heating** - replacement boilers/burners, upgrades - electric to gas, zone control, heat recovery, oil to gas, thermal stores
- **Air compressors**
- **Ventilation** - fans, distribution
- **Refrigeration**
- **Renewable technologies**
- **Recycling and waste** - compactors, balers and crushers



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Coronavirus (COVID-19)
>Latest information and advice

CORONAVIRUS
PROTECT YOURSELF & OTHERS



1. Covid-19 - new working arrangements
2. New normal: future options



Remote energy audits

These can be carried out remotely:

- Photos
- Recorded video
- [Live video call]

So...what do we need photos/video of?

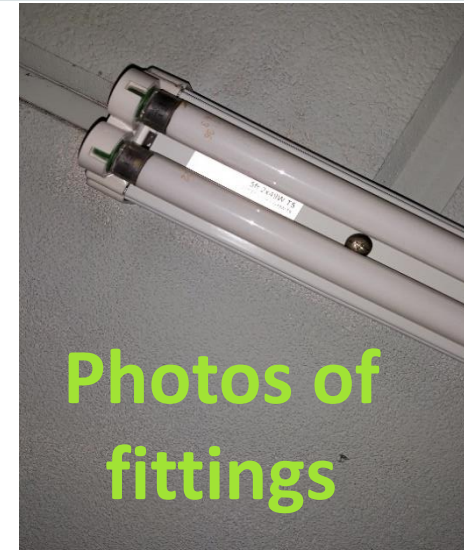


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Lighting

- No. of fittings to be replaced
- Lighting types/size: T8/5/12 fluorescent tubes, halogen, etc... **INTERNAL & EXTERNAL**
- Wattage of lighting (if available)
- Any sensors, i.e. motion, daylight
- Switches (manual/signage)
- Natural v artificial lighting



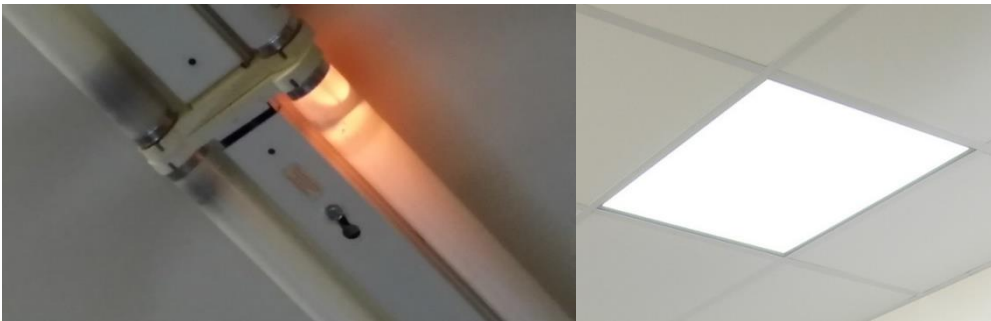
T5 Fluorescent
0.6" Diameter



T8 Fluorescent
1" Diameter



T12 Fluorescent
1.5" Diameter



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Lighting case study:

Engineering company; 2.5 year payback with £1.2k grant to upgrade to LEDs.

Improved quality of light.



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Heating & insulation

- Boiler(s)
- Radiators
- TRVs/control
- Timers
- Electric/oil portable heaters
- Photos of roofs/walls



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Heating case study:

- Electrically heated site.
- Graph shows heating coming on days when site closed mid-August.
- £3,300 annual saving by amending faulty controls, 7% saving on overall electricity spend.



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Electrical & other equipment

- Air compressor
- De-stratification fans/other
- Air con/cooling/extraction
- Refrigeration
- Lathe/welder/larger machinery
- **Nameplates/serial numbers**



Air compressor case study:

Engineering company had variable demand for compressed air.

Changed 2 x fixed speed compressors to 2 x variable-speed compressors.

- £32,648 project cost.
- 20% grant - £6,530 grant contribution
- £8,580 electricity saving / annum
- 4 year payback without grant reduced to 3 years with 20% contribution.



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Other

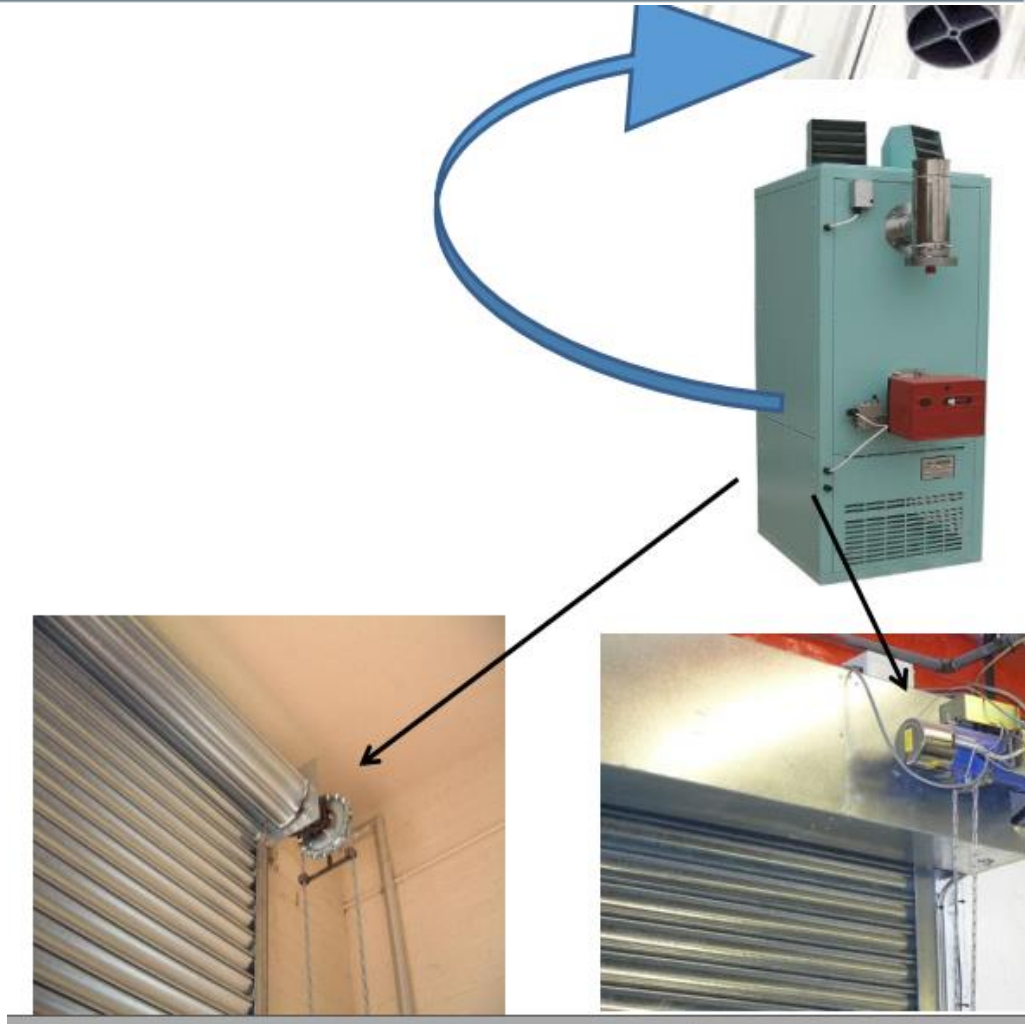
- Floor plans
- Shutter doors
- Warehouse/work space
- Office space
- Canteen/other spaces



Shutter door case study:

**Factory exposed to outside temp.
during deliveries from loading bay.**

- Fast acting roller shutter door = cost saving approx. £2k per annum
- Reduce annual electricity consumption by approx. 26,000kWh.
- Annual carbon saving est. 5 tonnes CO₂e.




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Corresponding phone call

20-30 mins at a time to suit you

- No of staff on site
- Occupancy hours
- Type of equipment
- Existing energy saving measures
- Funding requirements
- Heating/lighting/insulation details
- **Recommendations report**



Energy audit checklist

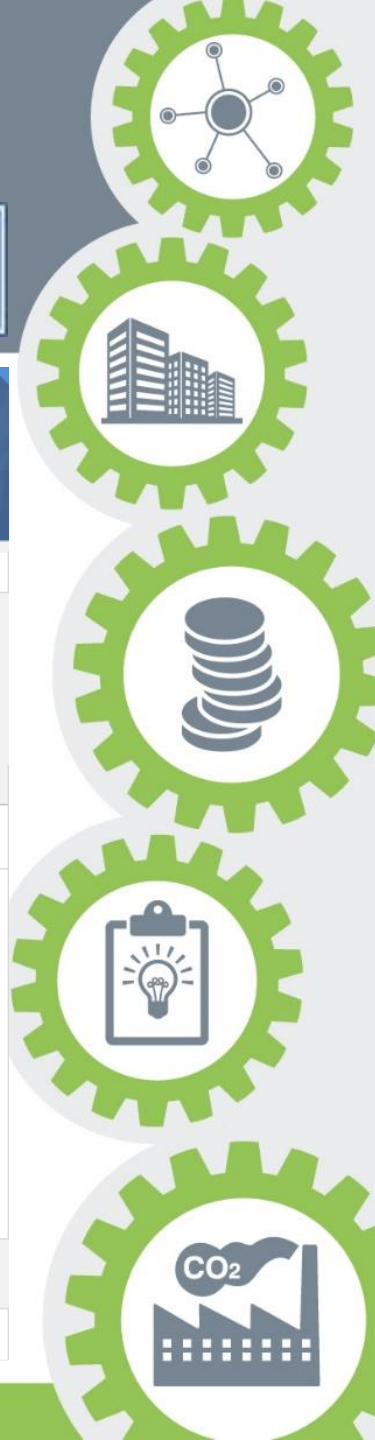
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Date

Business name

Name of business & representative

Initial queries			
Type of business activities/plant/machinery on site?	Activities & plant	Details	
Do you have an energy/environmental policy?	Yes/No	Details	
Any energy efficiency measures already in place?			
Prior grants for this?	Type <input type="text"/> No. <input type="text"/>	No	Amounts <input type="text"/>
Carbon saving advice already received?	/No	Details	
Any energy savings already quantified/estimated?	Yes/No	Details	
- New registration form per grant required - Level of grant linked to carbon savings			
<i>For info</i>			
Item(s) requesting funding?	<input type="text"/>	<input type="text"/>	<input type="text"/>



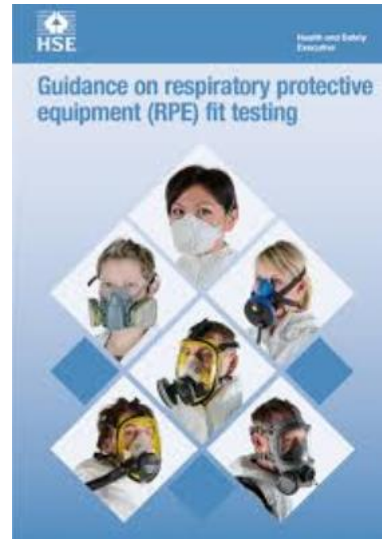
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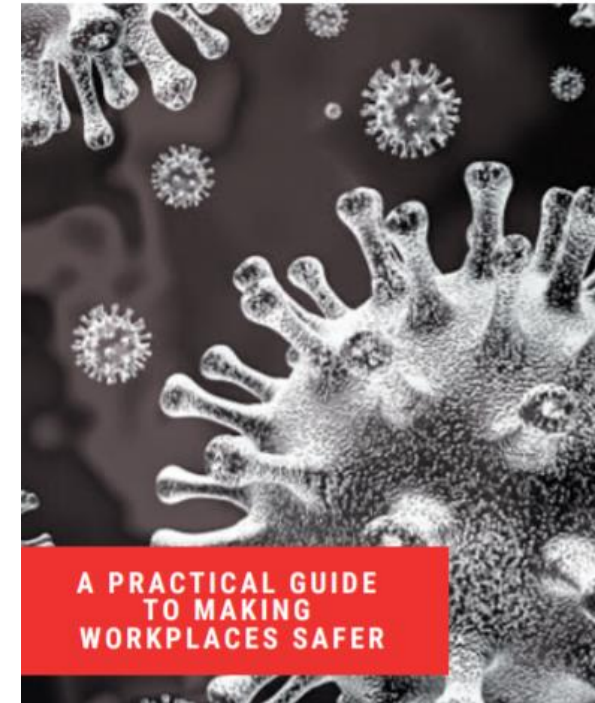
Advantages:

- ✓ No waiting for an energy audit; speedier process.
- ✓ No additional safety measures needed on site.
- ✓ Quicker to access grant.



COVID-19:

WORKING THROUGH
THIS TOGETHER



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Concerns?

Worried about any **commercial sensitivities** re: photos or a video of your business? You can either:

- Send us an **encrypted email** securely and we can sign a privacy notice, or
- **Wait** until we are able to carry out audits in person - we will let you know as soon as this is possible



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For more information:

- To register your interest for an energy audit/energy efficiency funding or for any queries:

greenbusiness@coventry.gov.uk

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