



CARBON COMPLIANCE AND EFFICIENCY SOLUTIONS

Start your sustainability journey



MONARCH PARTNERSHIP
Utilities simplified



CARBON COMPLIANCE AND EFFICIENCY SOLUTIONS

Start your sustainability journey

Sustainable efficiency has become an essential part of any modern organisation. Incorporating environmentally responsible policies into your management plan can significantly increase your long-term savings, boost your reputation, and help protect the planet.

We can simplify the process of building a resilient and green foundation for the future of your organisation. Through monitoring, detailed audits, modifications, and tailored management plans, we at Monarch provide a clear path to sustainability.



MONITOR

To establish your organisation's current carbon footprint, we will identify your consumption by carefully reviewing your high consuming meters. We can then provide you with a detailed outlook of your scope 1 + 2 emissions.

CARBON FOOTPRINTING

Simple: DQA reports for electric and gas data.

Advanced: Carbon footprinting for electric, gas, transport fleet, water and waste data.

ENERGY SAVINGS OPPORTUNITY SCHEME QUALIFICATION (ESOS)

Qualification criteria: Any large undertaking that:

1. employs more than 250 people or
2. has an annual turnover exceeding £42,750,000, and an annual balance sheet total exceeding £36,750,000

What can we provide?

- ESOS lead assessor only package
- Full compliance package
- Phase 2: compliance date ended 5th December 2019
- Phase 3: 6th December 2019 - 5th December 2023

For further information check: <https://www.gov.uk/guidance/energy-savings-opportunity-scheme-esos>

STREAMLINED ENERGY AND CARBON REPORTING (SECR)

Qualification criteria: any 2 criteria of the following:

1. employs more than 250 people
2. has an annual turnover exceeding £36,000,000
3. annual balance sheet total exceeding £18,000,000

What will you get from an SECR?

- Annual emissions data report relating to your company financials
- Documentation of the energy efficiency action taken within the financial year
- Reporting will be produced with an intensity metric/ratio

It is the liability of the company to declare qualification.

What are companies required to disclose?

- Scope 1 + 2 emissions (direct and indirect emissions)
- Electricity, gas and transport data as a minimum
- Scope 3 can be included. This includes water, waste, and transport data - extending to train travel, taxis, flights, and fuel for the transportation of goods contracted to a third party
- Transport energy: the company is supplied with the transport fuel; this includes fuel used in company cars, fleet and private/hire cars, and on-site vehicles. This does not include journeys where the fuel is paid for indirectly.





AUDIT

Once we have identified any sites with high consuming meters, your organisation may feel it is appropriate to conduct further investigations into your building's efficiency. We can conduct energy surveys for any properties in the portfolio. If you wish to address any of the recommendations from the reports, we can produce new EPCs to reflect the changes made to any properties. We can also produce EPCs and DEC's for any sites with certificates due to expire.

BUILDING ENERGY AUDITS

- Conducted by an energy surveyor
- Identifies energy improvement opportunities to make savings, providing the expected ROIs on carbon and energy
- Evaluates equipment on site e.g heating, lighting, ventilation, windows and doors

ENERGY PERFORMANCE OF BUILDINGS DIRECTIVE (EPBD)

EPC: Energy Performance Certificate (compulsory)

- Since 2018, it is unlawful for residential or commercial-let properties to have an EPC less than F or G
- An EPC certificate is a requirement of any building when built, rented, or sold
- The certificate provides a rating of performance for efficiency and carbon emissions
- We can reassess properties and provide for new builds
- This certification is valid for 10 years

DEC: Display Energy Certificate (compulsory)

- The energy certificate is required to be displayed in all public buildings with a total used floor area greater than 250m²
- DEC assesses and calculates efficiency of the building
- An advisory report is included and indicates opportunities to increase efficiency and generate cost savings
- DEC's last 10 years for buildings up to 1000m², and 1 year for buildings exceeding 1000m²
- We require floor plans/architectural designs, energy data, site address, and previous other DEC, if applicable

TM44 Air Conditioning Inspection (compulsory)

- By government legislation, A/C systems over 12kW require a regular inspection, service and maintenance check
- A TM44 assesses the energy efficiency and function of a system, conforming to regulation
- This inspection needs re-evaluation every five years





MODIFY

Monarch has supplier links to assist with modifications to sites including solar PV, LED installation, insulation via ECO funded suppliers, and ground source heat pumps to decarbonise a property's supply. Both upfront payments and PPAs for these services can be explored.

ON-SITE GENERATION

- Potential for no up-front costs via PPA set up
- Opportunities include:
 - Solar PV ground mount
 - Solar PV rooftop
 - CHP
 - Ground source heat pumps
 - Air source heat pumps
 - Wind turbines

WHAT DETAILS DO YOU NEED TO PROVIDE FOR ON-SITE GENERATION?

- Site address of the potential opportunity
- For solar PV, Google map images of the roof spaces that your organisation has ownership of.

- Half-Hourly data (for HH meters)
- Non Half-Hourly data (annual consumption for NHH meters)
- An invoice (to establish current daily utility rate)





MANAGE

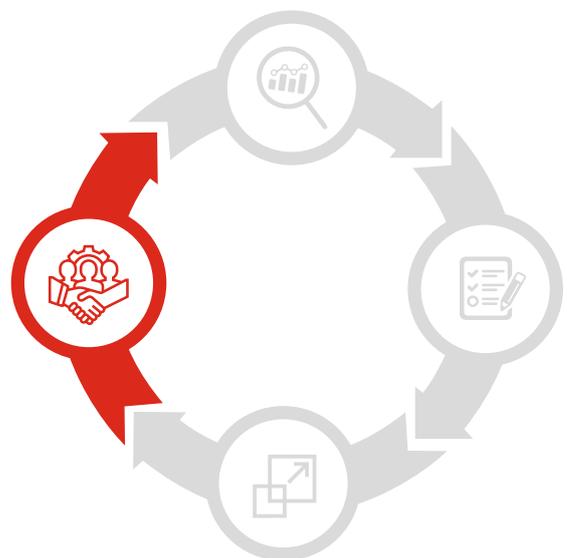
After establishing its basic carbon footprint, your organisation should consider establishing a carbon management plan to reduce consumption, emissions, and spending. We work with you to set realistic targets centred on benchmarked data and track your progress along the way. Our Building Management Systems can then help to control your supply from temperature to lighting and general electricity consumption.

CARBON MANAGEMENT PLAN (CMP)

- Based on the aims and objectives for reducing the carbon footprint and energy consumption for your organisation we can review what changes must be made
- We review the organisations utilities data, to set targets and create an action plan to meet reduction targets
- Along the way we will liaise with key stakeholders in the business and track the targets, resetting new ones once met
- Once consumption has been improved, it may be appropriate to look at more targeted solutions like audits to assess building efficiency

BMS (BUILDING MANAGEMENT SYSTEMS)

- Clients and organisations can remotely manage their offices and business conditions via BMS
- You can micro-monitor: heating, lighting, air conditioning, refrigeration, compressors, renewables, data centres, canteens, sports halls, and office blocks
- This is managed via the cloud, and enables greater control and impact on consumption and spending.





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