



Why Choose us?

Put simply... proven experience, quality service and honest, impartial advice!

[1] We Add Value to your Business

Giving you the expert advice and support you need as your Energy and Sustainability Partners, Carbon.gc can reduce costly project revisions to satisfy policy and compliance.

[2] Delivering a Quality Service

We are proud to offer the highest quality service and strive to build top level trust and confidence from our customers. Our clients tell us time and again that the quality of our consultancy services is what makes us stand out from the crowd. Read our testimonials and see what our customers say.

[3] Experience and Expertise

We have assembled a team of highly qualified and experienced staff and associates across a wide variety of professional and technical disciplines to offer you both the experience and expertise you expect.

[4] Building Strong Relationships

Our clients are the most important thing to us. We build our business connections on honesty and integrity, ensuring that our relationships last years.

Some of our Partners...



Contact us

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Commercial Services

SBEM Calculations

SBEM calculations demonstrate compliance with Part L2 of the Building Regulations. They ensure that each building element and service within the structure is within the allowable design parameters and that the building as a whole meets acceptable carbon emission levels.

Carbon.gc will share their expertise in construction, HVAC, lighting and renewable energy with you to work through the design process and guarantee your project passes first time.

Commercial EPCs (New build and existing buildings)

Carbon.gc will be able to convert your SBEM assessment into a new build Commercial Energy Performance Certificate. This will then allow your Building Control Officer to release the building.

The Carbon.gc team also complete EPCs for existing commercial properties which are leased, rented or sold.

BREEAM Assessments

BREEAM (Building Research Establishment's Environmental Assessment Method) is the world's leading and most widely used environmental assessment method for buildings. It sets the standard for best practice in sustainable design. Carbon.gc offers the range of BREEAM certification schemes to ensure your development meets the standard. Carbon.gc has highly qualified and experienced assessors ready to guide you through the BREEAM assessment process.

Commercial Energy Statements

Local authorities are now expecting planning applications for commercial developments to be accompanied by an Energy Statement. Alongside the SBEM calculations, the Energy Statement sets out how the development can reduce its predicted CO2 emissions through the use of on-site renewable energy sources. Carbon.gc are experienced in delivering the documents that local authorities require for local policy compliance.

Energy Audits

Energy Audits provide a prioritised list of actionable and costed recommendations that will help improve the energy efficiency of your building. Carbon.gc will assess the performance of all major energy consuming services in the building (heating, ventilation, air-conditioning, IT equipment, water) through the analysis of energy bills, information from the Building Management System and data logging.

For all recommendations, the payback period is evaluated and you will be provided with detailed follow-up actions to ensure identified savings are actually achieved.

Display Energy Certificates (DECs)

The requirement to display a valid Display Energy Certificate (DEC) in all public buildings of more than 1000m², came into effect on 1 October 2008.

The DEC is accompanied by an advisory report that lists the cost effective measures to improve the energy rating of the building. This report is valid for seven years.



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Residential Services

SAP Calculations

SAP calculations are required by building control departments at the planning stage of a new development. Building cannot commence until SAP calculations are completed and agreed. At Carbon.gc we like to get involved at the beginning of a project to help develop your strategy for compliance with both local policy and Building Regulations. We can offer relevant guidance on all of the potential pitfalls to ensure designs require fewer revisions at later stages.

Daylight Calculations

Daylight Calculations are necessary for planning permissions and Code Certification. They determine the amount of natural light that is anticipated to penetrate a room. Factors such as the size of the opening, reflectivity of surfaces, and view of clear sky from a window will all affect the daylight factor in a room.

EPCs (new build and existing dwellings)

A new Build EPC or On Construction Energy Performance Certificate (OCEPC) is issued once the building has been completed. It demonstrates that the new dwelling has been built to the energy specifications set out in the SAP calculations. Once the SAP calculations have been finalised, a Predicted Energy Assessment (PEA) is generated which allows building to commence. On completion, the building can then be issued with the OCEPC.

The Carbon.gc team also complete existing dwelling EPCs for domestic properties which are leased rented or sold.

Air Leakage

All new developments need an air leakage test, sometimes known as an air tightness test or air pressure test.

Leave it to us. Carbon.gc has coverage across England and Wales and will make sure that your development passes first time!

Code for Sustainable Homes

Take the pain out of your Code Compliance issues. Let us take up the strain of ensuring your development gains the Code credits you require.

We will manage your developments' code requirements from start to finish, whatever it's size, from pre-assessment through design stage to post construction review, offering the support you need. The Carbon.gc team will support you and offer relevant advice across all criteria of the Code, making sure that the process is made as simple and painless as possible.

Energy Statements

Alongside the SAP calculations, the Energy Statement sets out how the development can reduce its predicted CO2 emissions and its energy use through the use of on-site renewable energy sources. Our team will deliver what is needed in a straight forward format, to satisfy the specific planning conditions placed on your development.

Extensions

All conservatories over 30m2 and extensions are expected to have SAP calculations completed on them. At carbon.gc we'll produce exactly what your building control officer expects.

The carbon.gc team are happy to discuss your needs and offer advice on what is necessary to satisfy your building control officer.



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Case Studies

>> Llanelli, South Wales

Energy calculations and On Construction EPC's for a major residential development.

Carbon.gc was employed by Persimmon South Wales to supply Energy calculations for a 250 home development near Llanelli.

The first stage was to gain a good understanding from the architect and developer of the plans, the various dwelling types and specification. Preliminary SAP assessments were completed.

Having involvement at detailed design stage (RIBA design stage C) ensured revisions at more critical stages were unnecessary.

Due to various design constraints, an innovative solution was required to meet building regulation standards and the carbon.gc team were able to use their knowledge and expertise to develop a cost effective strategy.

>> Bredon, Worcestershire

Appeal Statement report in response to the refusal notice to develop 28 new homes.

Carbon.gc was commissioned to offer expert support to architect and planning consultants Barton Willmore in support of an appeal against a refusal to develop 28 new dwellings based on orientation and the potential for lack of solar gain.

Carbon.gc's experience and appreciation of current planning legislation offered a qualified, rational response plan for a written representation and an eventual hearing.

>> Okehampton, Devon

Code for Sustainable Homes Level 3 Certification on a 117 home site.

Carbon.gc was commissioned by Persimmon Homes South West to undertake a full Code level 3 Assessment on the Social House portion of the site.

Throughout the process, Carbon.gc was given the scope to liaise directly with relevant interested parties to achieve the goal. Persimmon Homes South West was confident that Carbon.gc could deliver the requirement with minimal input from them.

Persimmon was given regular feedback on the progression of the project and communication remained frequent and clear throughout.



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