



**The Carbon Advisory Service Ltd**

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**Offer of Services for Businesses**

by The Carbon Advisory Service Ltd

## **1. Introduction**

The Carbon Advisory Service Ltd (CAS) is a multi-faceted energy optimisation and engineering company. Providing carbon assessments, emissions reductions, energy efficiency solutions and carbon offset recommendations. We design bespoke environmental business solutions that are easily achievable. These include building design, transport and business practice, among others. CAS usually achieves between 40-60% emissions reductions from a standard baseline, before the inclusion of renewable technologies and can achieve 100% reductions in some cases. These reductions convert directly into significant cost savings in the ongoing running of the buildings, and can usually be achieved within budgets that have already been allocated. Once the CO<sub>2</sub> emissions levels have been reduced as much as possible, then offsets are considered.

CAS also offers expert advice and easily attainable solutions for the CRC Energy Efficiency Scheme (CRC). This scheme aims to address the U.K.'s goal of reducing emissions by 80% by 2050, through regulatory incentives on energy usage. Applicable to both the public and private sector, CRC will require organisations with a high energy usage to monitor their usage and purchase 'allowances' to accommodate for extra use. The money gathered through the purchase of allowances is then recycled back into the organisations based on their energy efficiency best performance. The intention of the scheme is to promote energy efficiency and emissions reductions.

## **2. Services**

CAS offers a number of services to lower carbon emissions. Each project is treated uniquely and the services described below are applied specifically to each.

### **I. Buildings engineering**

CAS offers sustainable engineering concept and design (fully integrated into the building and building systems design) for refurbishments and new-build properties. As well as full M&E services.

Within this scope CAS will include suggestions on:

- Integration of renewable energy systems
- Low-energy building and envelope advice
- Dynamic thermal modeling and plant modeling
- Air-conditioning recommendations
- Energy advice can be provided for planning applications

Building energy assessments and carbon lifecycle analyses on embodied carbon would be conducted to gain an in-depth understanding of the current building energy systems. From these, site-wide energy master plans can be developed. Corporate and building GHG inventories can be listed and an energy management plan can be developed to implement across all areas of the organisation. Staff training and inductions would be important aspects

of the process in order to gain multi-level support. Energy performance certificates (EPC) can also be awarded.

CAS will implement the design, by providing full mechanical and electrical engineering (M&E) services where required.

The M&E lifecycle typically lasts 10-15 years. Thus during a refurbishment we can upgrade to higher energy efficiency at low or zero capital cost, which in turn creates greatly reduced operational costs on an ongoing basis. We can also recommend new versions of better equipment as opposed to piecemeal replacement of old technology. This improved practice tends to generate 40-60% emissions reductions. This is achievable utilising our innovative engineering approach, even before we start to introduce renewable technologies.

## **II. GHG Assessment**

The aim of the Carbon Footprint Assessment is to quantify the GHG emissions associated with your operations.

The scope of the emissions assessment will include:

- Energy consumption, waste disposal and refrigerant gas losses at your premises
- Fuel consumed by company owned vehicles
- Business travel of staff
- Commuting of staff
- Deliveries by third parties

CAS proposes an online GHG auditing tool - Our Impacts. Our analysts will customise the data collection interface, support you through the data collection process, and select the appropriate emissions factors to apply to your data. Most importantly, our analysts will review all assessment data and calculations to ensure the accuracy of your assessment. This online carbon footprinting tool is designed for ongoing use to assist in continuously maintaining carbon reduction goals.

Our Impacts GHG auditing tool is supported by Ecometrica. Ecometrica's team of GHG analysts is among the best anywhere, with diverse and detailed experience across a wide range of industry sectors. We have provided expert advice towards the development of major GHG accounting standards, including:

- The WBCSD-WRI GHG Protocol
- The BSi PAS 2050 Product Carbon Footprint Specification
- The CarbonNeutral Protocol
- The CarbonFund Standards
- The IPCC Good Practice Guidelines for Land Use, Land Use Change and Forestry

## **III. Offsets**

For remaining unavoidable emissions CAS offers a portfolio of offset projects to the highest standard of environmental best practice.

#### **IV. CRC Energy Efficiency Scheme**

In relation to the CRC Energy Efficiency Scheme (CRC) CAS can conduct advisory services in relation to:

- All aspects of compliance and including interpretation of CRC legislation and guidance
- Assess and evaluate all relevant electricity supplies
- Develop software application for electricity assessment, monitoring and compliance purposes for the life of the CRC
- Evaluate strategy for maximizing performance across each of the three metrics including a timeline of justified targets in accordance with your business strategy.
- Conduct a cost-benefit analysis of energy efficiency performance options for all sites
- Advise upon footprint and annual report contents
- Advise upon allowance purchasing (and possibly sale) strategy for first year of allowance purchases
- Advise upon maximizing revenue recycling payment
- Explore and advise upon utility of Electricity Generating Credit strategy
- Advise upon favourable opportunities for financing investment in CRC strategic aim maximisation
- Advise upon likely comparative performance for selected competitors
- Analyze all of the above as relevant in relation to any change in ownership

#### **3. Organisation History**

CAS was founded in 2007 by Daniel Morrell, who has worked in this arena since 1988 when he trade-marked the term 'carbon neutral' and founded The Carbon Neutral Company, which is now a world leader in carbon offsetting. Some of the high-profile clients also helped achieve a breakthrough in popular consciousness by campaigning for awareness of climate change with a charity Daniel founded in 2004, Global Cool. Daniel has acted as climate change advisor at governmental level and has also managed the sustainable lifestyles of many individuals in the music, film and business communities.

#### **4. Next Stage**

To engage these services please contact Chelsea Paull on +44 (0) 208 347 0800 or [Chelsea@carbonadvisoryservice.com](mailto:Chelsea@carbonadvisoryservice.com). For more information on CAS please consult the website [www.carbonadvisoryservice.com](http://www.carbonadvisoryservice.com).