Edinburgh Airport

Case Study: Edinburgh Airport

Prepared by Carbon Masters, June 2012

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Background

Edinburgh Airport is Scotland's busiest airport – an estimated 9.3 million passengers a year pass through the airport which is used by more than 40 airlines, serves over 100 destinations and employs over 2,500 people. Since 2009 Edinburgh Airport have been committed to measuring and managing their Greenhouse Gas (GHG) emissions and have employed external consultants to help them with this on an annual basis. The Airport is working to achieve a reduction in carbon emissions year on year against a backdrop of rising passenger numbers.

The Solution

Edinburgh Airport commissioned Carbon Masters to:
- Produce their 2011 Carbon Footprint report, which looks at a wide range of emissions sources.
- Move their carbon accounting from spreadsheets onto Carbon Masters Industry-leading Carbon Guru for Organisations software solution
- Certify them under the Carbon Masters Standard, our Environment Agency approved carbon emission reduction and certification scheme designed to reward best in class carbon management.

What we did

Carbon Masters used Carbon Guru for Organisations to calculate Edinburgh Airport's 2011 carbon footprint. Carbon Guru was well suited in this context as the Airport were looking to report on more than 10 different emissions sources, across all 3 emission scopes and covering five different GHGs. The report was produced in line with the GHG Protocol and included all Scope 1 and Scope 2 emission sources (mandatory under the GHG Protocol). In addition we assessed several Scope 3 emission sources including Air Traffic Movements in and out of the Airport below 1000m (Landing and Take Off (LTO) Cycles). This process involved a complex analysis on fuel burn rates for each type of aircraft and engine type in each phase of a LTO cycle. The Carbon Guru platform was configured to assist in this process.

As part of the engagement, we also worked closely with Edinburgh Airport to help them apply for the Carbon Masters Standard. This involved calculating the Airport's carbon reduction over a three-year period as well as providing guidance on a range of qualitative questions designed to test the Airport's proficiency in carbon management. Independent assessment of Edinburgh Airport's performance was carried out by our audit-partners Grontmij, one of Europe's leading environmental and engineering consultancies. As part of this process the airport also received an independent verification of their carbon footprint in line with ISO 14064.

Results

Carbon Masters provided a bespoke carbon footprint report for Edinburgh Airport, which measured their GHG emissions against key metrics such as passenger numbers and analysed 3-year trends. Carbon Masters have the Airport with detailed guidance on how to improve their data collection techniques and ensure that their data continues to be as accurate as possible. By using Carbon Guru,

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Edinburgh Airport are able to view and understand precisely how the calculations were done as well as generate their own reports and download these directly from the platform. This helps the organisation to improve their data management and engage further with carbon measurement and reporting.

Edinburgh Airport were successfully certified under the Carbon Masters Standard in May 2012 and were awarded their certificate by MSP Stewart Stevenson as a tribute to their successful achievement. They received positive coverage in national newspapers, such as the Daily Herald, as well as Airport specific publications (see example here http://www.airport-world.com/news-articles/item/1598-edinburgh-airport-demonstrates-commitment-to-reducing-greenhouse-gas-emissions)

Through this collaboration with Carbon Masters, Edinburgh Airport have demonstrated their commitment to managing and reducing their carbon Emissions and thereby taken a leadership position within their sector in tackling climate change.

About Carbon Masters

Carbon Masters is a carbon management company based in Edinburgh whose mission is to assist organisations to measure, manage, reduce and report their carbon emissions. The company is staffed by experienced carbon management consultants who all hold postgraduate qualifications from University of Edinburgh's landmark carbon management programme. We carry out climate change research as well as carbon management consulting projects with organisations in both the public and private sector. Carbon Masters are a global company with permanent offices in the UK and India, and associates based in Ecuador. In addition to our experience working with Airports, we have a growing international client list that includes multinational companies, such as Pfizer the pharmaceuticals company and Adelca, one of Latin America's largest steel manufacturers. We are also familiar with the UK context including the Carbon Reduction Commitment (CRC) Energy Efficiency legislation as we have worked with several CRC clients to assist them with measuring the carbon footprint for their CRC submission as well as helping them to become certified under the Carbon Masters Standard. For more information on Carbon Masters and the services we offer please contact us at **info@carbonmasters.co.uk** or **+44 (0)131 472 4601**.

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