

Ambius Carbon Action Plan

Prepared in conjunction with **dcarbon8**

EXECUTIVE SUMMARY

Introduction

The **Ambius Carbon Action Plan** report defines a programme of action that **Ambius** will be taking to reduce its Greenhouse Gas emissions (represented in carbon dioxide equivalents or CO₂e) identified by scientists globally as the principal contributor to man-made climate change. **Ambius** established its Carbon Management Programme in June 2009 as a key deliverable under its internal environmental programme, **Sustainably Green**, with a commitment to 'reduce its environmental footprint'.

Aims & Objectives

The objectives of the **Ambius Carbon Management Programme** are to:

- Establish **Ambius's** global business carbon footprint
- Identify reduction measures that will reduce carbon and cost
- Put in place a long term plan for ongoing carbon reduction
- Enable part or the whole of the business to achieve Planet Positive status for marketing purposes

Scope & Boundary

This report builds on an initial carbon footprint assessment of **Ambius** (UK, North America, and Pacific regions) conducted by **dcarbon8** and associated agencies. The headline results of assessment are summarized below.

Corporate Emissions Profile

	Building Energy	Travel (Fuel)	Travel (Air & Cars)	Paper	Waste	Total
CO ₂ emissions (tonnes and %)	7,230 35%	7,886 38%	1,475 7%	6 <1%	4,296 20%	20,894
Costs (%)	16%	68%	16%	Not measured	Not measured	

Ambius had a carbon footprint of 20,894 tonnes of Carbon Dioxide equivalents (CO₂e) for the calendar year 2008. The most significant source of our emissions came from its travel (45%), including both business travel and the vehicle fleet. Building energy including electricity, gas and LPG represented the second highest source (35%) with waste emissions, from sources such as green waste and general office materials representing one fifth of its global emissions; those associated with the consumption of paper consumed for administrative purposes were negligible.

Organisational Boundary:

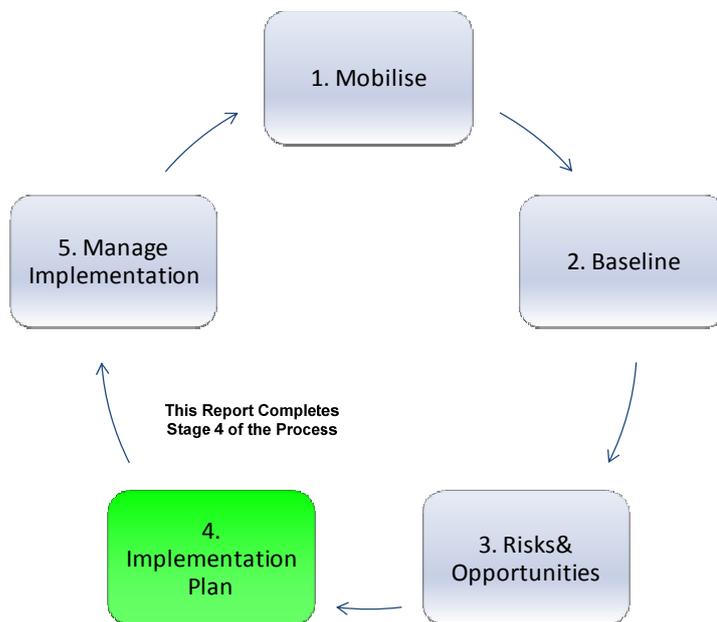
This programme is relevant to all Greenhouse Gas (GHG) emissions measured in the 2008 carbon footprint report. This includes all emissions under direct financial control of **Ambius** within the following regions:

- North America
- United Kingdom
- Pacific Region
 - Continental Europe and South Africa to be included during 2010.

Operational Boundary:

Emissions reported include all Scope 1 (direct GHG emissions), Scope 2 (electricity indirect GHG emissions) and a selection of Scope 3 (waste, private business travel and paper).

The Carbon Trust 5 Step Process



Summary of Carbon Action Plan

Headline carbon savings: 2,758t CO₂e per year from 2010 to 2014

This report builds on a strong business case for carbon management at **Ambius** globally. The Carbon Footprint report (2008) identified over 16,000t CO₂e reduction was achievable in the UK, North America and Pacific regions) if a programme of action achieving 5% annual energy and fuel savings was enacted.

This CAP report has identified eight headline actions that collectively could achieve a saving of 2,758t CO₂e (13% baseline reduction) and significant global cost savings (UK, North America and Pacific operations). It is assumed that these measures can be completed in 2010 with year on year savings evident from 2011 to 2014. These savings will be magnified when **Ambius's** Continental Europe and South Africa regions are included in the CAP.

A detailed breakdown of limitations and assumptions are given in the appendix to the main report and in the Green Energy Partners (GEP) energy audit report and the Energy Savings Trust (EST) Green Fleet Review report; both used to inform this CAP.

Process of identifying initiatives

The following process was completed to produce the findings in this report:

1. Production of Business Footprint Report (2008 data)
2. Business Case for Action delivered to Ambius team
3. Energy & Fleet audits completed (UK) to identify key areas for emission reduction
4. Opportunity Workshops held over teleconference to rank measures by ease and effectiveness

Headline Actions for Implementation

1. Energy awareness campaign (Global)
2. Automatic Monitoring & Targeting (AM&T) Equipment (Global, where practicable)
3. Office heat pump controls (UK)
4. Warehouse heating controls (UK)
5. Detailed energy audits (USA and Pacific)
6. De-stratification controls (Harlow, UK)
7. Fleet data management & driver training (UK, US, Pacific)
8. Vehicle emissions campaign (Global)

Next Steps

Further actions key actions to this programme include:

1. Review lighting in plant growing areas
2. Planet Positive certification
3. Stakeholder communications launch event
4. Detailed project business cases