

XCO<sub>2</sub> are seeking projects and EU partners for the Framework 6 research and innovation programme. We would like to contribute to projects under the 'Sustainable development, global change and ecosystems' thematic area. Instruments could include NoE, IP, STREP or one of the horizontal 'SME measures' either as a partner or as a RTD performer.

We are a multidisciplinary team of environmental engineers and product designers; our main focus is on energy efficiency in the built environment and building physics. As well as designing sustainable buildings, XCO<sub>2</sub> are heavily involved in the design & testing of low carbon technologies such as renewable & energy efficient products.

**Our core skills include:**

- **Multidisciplinary expertise in engineering, design, analysis and building physics for construction and renewable energy projects.**
- **High design values and successful, innovative problem-solving approach.**
- **Practical detailed understanding of energy services, capital and running cost expenditure in the built environment.**
- **Product design, visualisation and prototyping through the use of CAD / CAM technologies.**
- **Experience and in the growing low-carbon R+D sector. Knowledge of relevant public and private funding schemes available, including forthcoming carbon emissions trading schemes.**
- **Market analysis / development of IP strategies.**

**Recent Projects:**

**C21®** - a range of new photovoltaic building materials. XCO<sub>2</sub> products are leading the design process and carrying out detailed product design and prototyping, as well as specialist energy and thermal modelling. *Client: Solar Century.*

**Insulation for Sustainability** – a major research report on the priorities for reducing heat loss in buildings, and specification of energy efficiency materials. *Funded by: BING*

**LightWeight; AirTight; LowHeat** – design and computer modelling for a new modular construction system; 'the next generation of timber frame' – enables very low heating energy use at low cost. *Client: Tekhaus*

**Solar Canopy** – complete design and engineering of the world's first electric go-cart track and London's biggest sun power station. *Client: Environment trust*

**WarmWindows** – moveable insulation for windows. Low-cost approach to minimising heat loss, especially in existing buildings, with very short payback period. *Funded by: DTI and Carbon Trust.*

**21<sup>st</sup> Century Biomass** – a detailed study into heating buildings using biomass wood pellets, this study will be disseminated amongst architects and engineers nation wide. *Funded by: Pilkington Energy Efficiency Trust.*

**Building integrated PV** – research, design and analysis project for a zero carbon building. *Funded by: ETSU & Department of Trade & Industry UK.*

**If you have a suitable project proposal and are looking for a partner please contact Andrew Cox: +44 (0) 207 700 1000 or [andrewc@xco2.com](mailto:andrewc@xco2.com)**