



LowC Communities Ltd

Making Low-Carbon Communities Happen

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Company Overview

LowC has the single mission to make low-carbon communities happen. With expertise spanning building physics, low-carbon design, construction and renewable energy supply solutions, LowC can guide clients seamlessly through design, implementation and operation of renewable energy infrastructure.

LowC works with developers, property owners, private investors and government bodies across all sectors and functions. Offering four core business areas: consulting, technologies, construction and energy services.

- **Consulting** - focussing on low and zero-carbon solutions for the built environment, delivering improved returns and enhanced shareholder value by reducing costs, complying with new regulations and responding to market demands for improved environmental performance.
- **Technologies** - offering capital sale, project management, installation and commissioning of renewable energy solutions.
- **Construction** - both the management of the physical integration of renewable energy technologies into existing infrastructure and the construction of complete buildings.
- **Energy Services** - working with clients to optimise returns on their investments in renewable energy technologies. Services include energy financing contracts and RESCo services, as well as utilities management and supply optimisation.



Unique Approach

Whereas many UK developers merely pay lip-service to the integration of low-carbon energy solutions in order to satisfy the requirements of the planning process, LowC produce buildings and technological solutions that deliver exemplar results in operation. It's all too easy for a contractor to 'value engineer' a renewable energy technology out of a project - with them often taking the view that it could be risky to adopt.

By understanding a building or community's operational heating, hot water, cooling and electrical demand and satisfying it with the most cost-effective form of low-carbon energy, LowC has managed to break down the barriers that have, until now, prevented the wider uptake of renewable energy generation technology.

Whilst its peers are blinkered towards generating 'low-carbon' electricity via inappropriate fossil fuels such as natural gas - targeting renewable technologies for only producing heat, LowC has rightly identified electricity as being the biggest emitter of carbon - thereby the prime target for reductions.

Track Record

Since 2007, LowC has developed an impressive portfolio of operational projects, mainly within the education sector, with further projects under construction - including a 1MWe renewables-based combined heat and power facility for the prestigious new headquarters for the Co-operative Group in Manchester city centre.

LowC's Renewable Energy Generation Technologies

Agri ElectroGen – a liquid biofuel-powered CHP System that offers clean electricity, heating, hot water and, if required, chilled water for air conditioning applications. Available in sizes that typically ranging from 8kWe up to 400kWe it offers the perfect solution to reducing carbon emissions in the built environment.



Arbor ElectroGen – a commercially-proven, advanced gasification CHP system. Producing clean electricity, heating, hot water and, if required, chilled water for air conditioning applications – all from UK-grown woody biomass. Sized at a community level, Arbor ElectroGen is available in modular units – offering generation capacities from 130kWe up to 500kWe.



Other Technologies – LowC is not blinkered into fitting its own technologies into every conceivable project; its design team will fully evaluate the effectiveness of every viable technology when assessing a project's needs.

The Next Steps

To find out how LowC can help reduce both your costs and carbon emissions, please telephone 01778 590 074, email info@lowc.co.uk or visit the website www.lowc.co.uk

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