



CHALLOCH ENERGY

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Introducing Challoch Energy

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Specialist Consulting Practice on Low Carbon Energy

- Founded in 2009
- Offices in Belgium
- Excellent International Networks
- Clients in Europe, North America, Southern Africa and East Asia

Company is lead by Dr Simon Minett

- 20 years experience in low carbon energy
- Experience in Policy Development, Industry and Consulting
- Previously Director of Delta Energy and Environment, Managing Director of COGEN Europe and Vice Chair of the World Alliance for Decentralized Energy

Deep Knowledge on Decentralised Energy

- Cogeneration (Combined Heat & Power)
- Energy Efficiency
- Renewable Energy
 - Technologies
 - Policy and Regulatory Regimes
 - Markets
 - Economics
 - Commercial Strategies

INDEPENDENT, IMPARTIAL AND OBJECTIVE



Vision and Mission

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Vision

- To deliver the best quality advice on low carbon energy

Mission

1. To be recognised as a world leader in research and analysis in low carbon energy systems.
2. To build a small office in Belgium to deliver growth, a stimulating working environment and to enable a fertilisation of ideas.
3. To bring about a significant and sustainable growth in its value over time.
4. To be a model for the sustainable operation of business.



Services

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- Challoch Energy has two business streams:
 - ▣ Independent consulting in low carbon energy
 - ▣ Strategic partnerships with key energy businesses
- Consulting work includes:
 - ▣ Market and economic analysis
 - ▣ Policy and regulatory analysis and advice
 - ▣ Technology assessments
- Current strategic partnerships are with:
 - ▣ Delta Energy and Environment
 - ▣ Future Green Solutions
 - ▣ North Energy Associates
 - ▣ Two Tomorrows
 - ▣ Camco



Client Groups

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- Oil and Gas Companies
- Major Process Industry Companies
- Electric Utilities
- Equipment Companies
- Governments, NGOs and Industry Associations



Market Pull for Challoch Energy's Offering

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- Decentralised Energy is set to be the next big thing
- Governments around the World are exploring strategies for reducing carbon: these include greater use of renewable energy technologies and fuels, increased penetration of energy efficiency and low carbon electricity and heat generation
- Domestic generation is the door opener to engagement of the public
- Greenpeace et al are very keen on these solutions
- Challoch Energy is positioning itself as the voice of authority in this area

Capabilities – CHP/DHC

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- World expert in CHP technologies and markets (CHP and District Heating (track record since 1990))
 - Policy including:
 - Thorough understanding of European and other market CHP/DH policy frameworks
 - Modelling capabilities on support regimes
 - Working relationships with the EU and national Government officials responsible for CHP/DH
 - Individual member of the UK's Combined Heat and Power Association
 - Ongoing relationship with COGEN Europe, including chairing the EU Emissions Trading Working Group
 - Technical knowledge:
 - Thorough understanding of CHP cycle and heat and power supply
 - Pre-feasibility modelling capability on CHP options including sizing, cost, economic analysis
 - Experience in biomass, biogas technologies
 - Market knowledge
 - Well known by most of the UK CHP market and good working relationships with energy companies, equipment suppliers and policymakers.
 - Well known by a good proportion of European CHP/DH industry, but less complete a coverage than in UK.
 - Active working knowledge on energy markets in the UK and other EU Countries
 - Examples of work
 - Study leader for SDC-funded work on low to medium density DH market potential in the UK
 - Lead consultant to two collations of CHP operators in California in their lobbying and preparation for the Greenhouse Gas Reduction Program



Capabilities – Energy Efficiency

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- 20 years experience in energy efficiency, both in buildings and industry
- 8 years working for ETSU on the UK's Energy Efficiency Best Practice Programme in the 1990s
- EU Policy experience, for example:
 - ▣ European Climate Change Programme, especially the Working Groups on electricity and buildings
 - ▣ DG TREN's Energy Consultative Committee between 1999-2003
 - ▣ Energy Performance of Buildings Directive
 - ▣ Energy Efficiency Action Plan
 - ▣ Green Paper on Energy Security of Supply
 - ▣ End Use Efficiency and Energy Services Directive
- Industrial Energy Efficiency training development
- Energy efficiency in Chemical SMEs



Capabilities – Renewables

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- EU Policy development experience, including:
 - Energy Consultative Committee
 - EU RES Electricity Directive
 - EU RES Heat Initiative
- Market Analysis of Biomass, Biogas and PV opportunities in Europe
- Assessment of the market and economics of micro-wind technologies
- Cost Modelling of Hot Dry Rock Geothermal Energy