



CleanTech
IRELAND

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Introduction

The global drive to innovatively and competitively manage climate change, grow sustainably, generate clean energy and manage scarce natural resources is creating rapid growth in the demand for CleanTech products and services worldwide. Recent green economic stimulus packages across the world's major economies and green public procurement targets within the EU have stimulated further growth. Venture capital investment in the CleanTech sector worldwide continues to grow apace, and CleanTech is the third largest recipient of VC in the US market.

Ireland is uniquely positioned to avail of the opportunities that global markets present; with excellent natural resources in the form of renewable energy sources (wind, wave, tidal); well developed research infrastructure; and a solid skills base. At present, CleanTech is among Ireland's fastest growing sectors, with Ireland's 240 CleanTech companies employing over 5,900 people.

Enterprise Ireland is committed to continuing to invest in developing the capabilities of the domestic CleanTech sector with the aim of becoming a world leader in several niche sub-sectors, within the next five years.

Where Our Capabilities Meet Global Opportunities

The Irish CleanTech sector directly comprises companies in Energy Efficiency, Renewable Energy, Waste Management, BioEnergy Water and Services sectors. It also encompasses companies from a range of other diverse industries including engineering, software, building management and electronics.

Enterprise Ireland's strategy for the CleanTech sector is designed to enable Irish CleanTech companies at various stages of growth and development to realise their potential for export growth. Enterprise Ireland has identified the following areas as representing strong growth opportunities for the Irish CleanTech sector in the short, medium and longer term.

- Energy Efficiency, Water Treatment/ Management, BioEnergy and CleanTech Services companies are positioned to grow very strongly in the short term (1 to 3 year horizon)
- Waste Management and Renewables will experience stronger growth in the medium term (3 to 5 year horizon)
- In the longer term (beyond a 5 year horizon) Renewable Energy companies in the marine, offshore wind and biomass

sub-sectors are likely to deliver significant returns. This reflects the larger investments and longer project timeframes involved.

Ireland

Because of its emergence as an entrepreneurial and dynamic global economy, Ireland has drawn international recognition as a compelling business proposition.

Irish export levels are over seven times greater per capita than in the USA, and with an average GDP growth rate of 6% from 1995 to 2006, Ireland has consistently topped OECD economic growth tables.

The Irish corporation tax rate on trading income is 12.5%, the lowest rate in the European Union. Ireland also provides a tax credit of 20% of capital and revenue spend on qualifying R&D.

The latest National Development Plan commits over €20 billion investment to enterprise, science and innovation programmes, and a young, vibrant and educated workforce with a high proportion of advanced degree holders fuels Ireland's strong, knowledge-based economy.



Enterprise Ireland

Enterprise Ireland, the trade and technology board of the Irish Government, is one of the main catalysts for Ireland's continuing strong entrepreneurship and innovation performance.

Having invested over €167million in Irish companies in 2009 we can demonstrate a solid track record of developing businesses with high growth potential and improving our clients' competitive advantage in world markets.

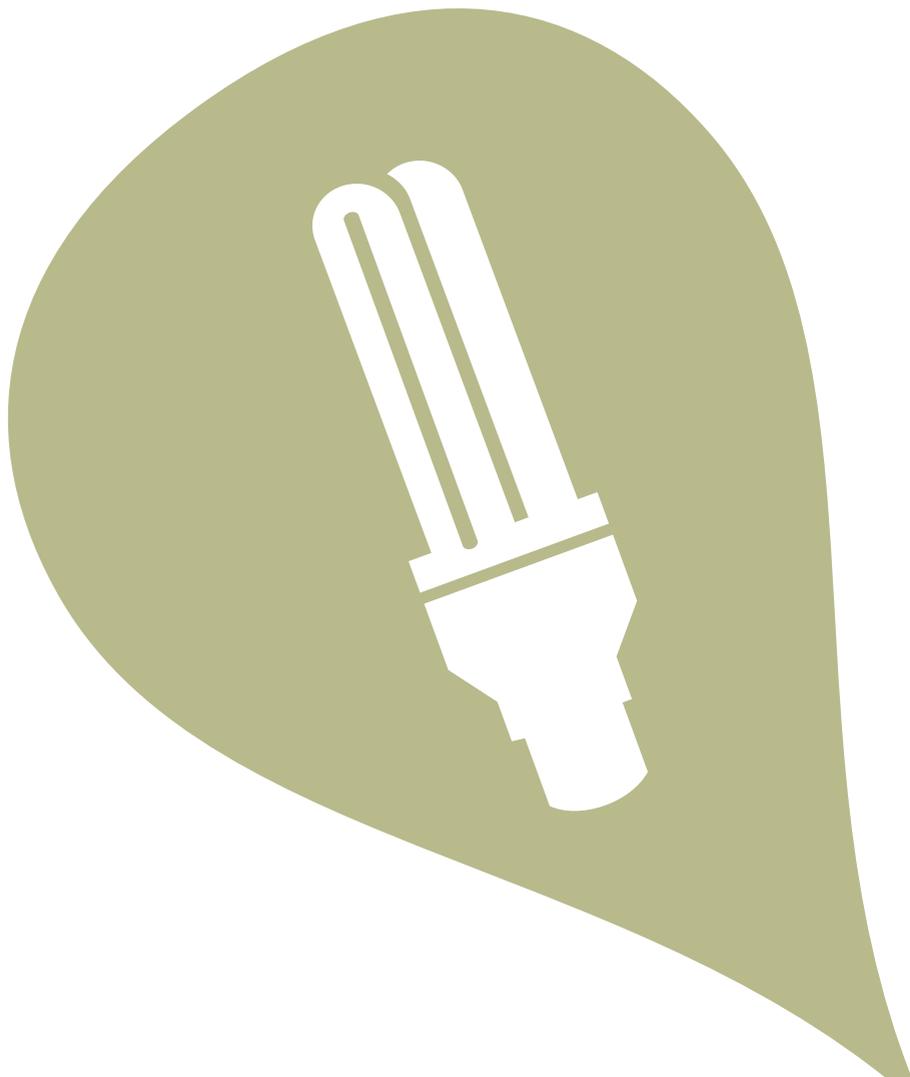
As a global organisation, we have developed a vibrant network of contacts, detailed local knowledge and first-class business relationships with industry leaders all over the world. Our organisation can provide you with unique access to over 4,000 Irish companies.

With 13 offices in Ireland and a network of over 30 international offices reaching into more than 60 countries, we offer world-class expertise and support, including a range of professional services in areas such as international sales, venture capital, technology benchmarking, human resource development and sector-specific knowledge.

Further information is available at
www.enterprise-ireland.com

See also
www.sei.ie
www.idaireland.ie
www.sfi.ie

Energy Efficiency



Energy Efficiency

Energy efficiency means using less energy to provide the same (or greater level of) service. It embraces both technologies that improve existing energy processes and the development of new more efficient products and processes. In buildings, for example, energy efficiency starts with the design of the building itself. Insulation, glazing, air tightness and ventilation heat recovery, the heat generator and distribution system will all dictate the amount of energy used.

This sector overlaps many others such as the construction sector (insulation), electrical engineering (variable speed motors) and electronics (controls). The value of the energy-efficiency technologies and services market (appliances, industrial processes, electrical motors, insulations) in 2007 was €400 billion and is expected to grow to €600 billion by 2012.

The drivers for this growth are concerns over climate change (leading to penalties for the inefficient use of energy and incentives for efficient technology), the rising cost of energy and the (reducing payback time for investments), decreasing cost of energy efficient technology (reducing payback time for investments) and the drive to become more competitive by reducing production costs.

4Front Energy and Environmental

AER Ltd

Anord Control Systems Ltd

APHaslam Ltd

Arigna Fuels

Automsoft International Ltd

Ballytherm Ltd

C&F Green Energy

Campion Concrete Products Ltd

Certification Europe

CES Energy Ltd

Clearpower Ltd

Comeragh Controls

Crowley Carbon

Cylon Controls Ltd

D3D (DigiTech 3D)

Datac Control International Ltd

Delap & Waller EcoCo

Delap & Waller Energy Bureau

Delap & Waller Mechanical & Electrical
Consulting Engineers Ltd

DHS Ltd (Design Hosting Software)

eagleEdge Ltd

Ecocem Material Ltd

EDPAC

EFT Control Systems Ltd

Eirdata Environmental Services Ltd

Enerit Ltd

Enviritech Engineering

EpiSensor Ltd

EPS Pumping & Treatment Systems

Fehily Timoney & Company

Fingleton White & Co. Ltd

FLI Energy

FMC-Tech Ltd

Glen Dimplex

Green Diamond Technologies Ltd

Greenstreets Environmental Resources Ltd

HDS Energy Ltd

Heatricity

Heatsolve Ltd

Hempire Building Materials Ltd

Hosca Lean & Green

Houston Precision Engineering

Hybrid Energy Solutions Ltd

John Sisk & Son Ltd

Kingspan Century Ltd

Kingspan Insulation Ltd

Liberator.Aero

Longship

Lotusworks

Mulberry Stoves

The National Micro Electronics Centre
(MAC) Ltd

Nualight Ltd

OpenCarb LP

PM Group

Premium Power Ltd

ResourceKraft Ltd

Response Engineering (REL) Ltd

Selc Ireland Ltd

SL Controls Ltd

Smarthomes Ltd

Surface Power

Systemlink Ltd

Technology From Ideas (TFI) Ltd

Thermohouse Ltd

Tobin Consulting Engineers

Ventac Group

Verteco Energy Ltd

Wirelite Sensors Ltd

Xtratherm Ltd

4Front Energy and Environmental

Value Proposition

4Front Energy and Environmental has established a full services design, build, finance and operate (DBFO) model integrating renewable and sustainable technologies.

4Front Energy and Environmental can engage with clients, and their M&E consultants, both commercial and industrial, at planning stage, and bring the project through all stages to operation. With a facilities management heritage, the company has a focus on maintaining client critical assets over the long-term, and in being their clients' energy and facilities partner.

Products & Services

- > Demand and Supply side energy management
- > Energy auditing and advisory
- > Energy systems design with focus on renewable technologies (CHP, biomass boilers, solar, thermal storage)
- > Power supply agreements
- > Energy management and monitoring product and systems
- > Mechanical services
- > Electrical services
- > Building management systems
- > 24/7 help desk
- > Soft services

Key Customers

Beauchamps Solicitors, PNC Bank, Office Depot, Irish Nationwide, Canada Life, Bennett Developments, Irish Rail, An Post.

Standards & Certifications

IS9001.2000; IS14001.2004;

We hold memberships in the following Institutes:

- > Chartered Institute of Building Services Engineers
- > Institute of Engineers Ireland
- > Irish Property and Facility Managers Association
- > Sustainable Energy Association
- > Institute of Refrigeration Ireland

Contact Details Ireland

Fintan Lyons
Grattan House,
67-69 Lower Mount Street, Dublin 2
E: fintan.lyons@4fnrg.com
T: +353 1 439 6637
+353 86 043 4491
W: www.4fnrg.com

Contact Details Overseas

Dave Connolly
Grattan House,
67-69 Lower Mount Street, Dublin 2
E: dave.connolly@4fnrg.com
T: +353 1 439 6637
+353 86 043 4490
W: www.4fnrg.com

AER Ltd

Value Proposition

AER is a leading alternative energy company based in Dublin with three key divisions. AER's bioenergy division is a leading supplier of biofuels to the Irish market with new growth in international markets. The company's research and development team is creating and licensing cutting edge intellectual property in next generation biofuels. AER's enterprise division works with international energy companies and government agencies, finding and executing new opportunities across all alternative energy and energy efficiency areas.

Products & Services

- > Liquid biofuels production and supply
- > Intellectual property licensing
- > Technology and economic feasibility assessments
- > Alternative energy and energy efficiency consulting
- > Project management

Key Customers

International and national energy companies

Standards & Certifications

Fuels comply with EN 15376 and ASTM standards

Contact Details

John Travers
NovaUCD, Belfield, Dublin 4, Ireland
E: john.travers@aer.ie
T: + 353 1 716 3700
W: www.aer.ie

Anord Control Systems Ltd

Value Proposition

Anord Control Systems is a leading supplier of low voltage switchgear and automation solutions across UK, Ireland, Europe & Middle East.

The Anord LV Voltage Motor Control Switchgear design delivers a sustainable solution through the use of Water Cooled Drives technology that delivers significant cost reduction associated with cooling system energy and maintenance costs. The 3rd Generation Intelligent Assemblies provide enhanced plant wide Energy Management, Plant Asset Management and Predictive Maintenance capability.

Products & Services

Anord manufactures:

- > 11KV/400V Package Substations and Main Switchboards rated up to 6300Amps
- > Full type test ASTA certified Assemblies up to 100K RMS
- > Power Distribution Units
- > Intelligent Motor Control Centres and ASTA Certified Plug-In Busbar Systems
- > LV switch gear products designed and certified to IEC 61439 standards.

Services include:

- > Front end design support
- > Site testing/commissioning and after sales service.

Anord have established track records in the following market sectors: Water, Power & Generation, Infrastructure, IT & Communications, Healthcare, Mining Data Centre.

Key Customers

Customers include Intel, National Grid, EDF Energy, Thames Water, Microsoft, Olympic Development Authority 2012, Utilities, Diageo, Costain, Black & Veatch.

Standards & Certifications

- > LV switchgear product range is designed and certified to IEC 61439 standards and Asta Certified.
- > Quality Management System is certified to ISO 9001:2008
- > Environmental Management system is registered against the provisions of ISO 14001:2004

Contact Details Ireland

Michael O'Connor - Sales Director
 Coes Road, Dundalk, Co. Louth
 E: mike.oconnor@anord.ie
 T: +353 42 932 0500
 W: www.anord.ie

Contact Details Overseas

Drummond Rodwell
 E: drummond.rodwell@anord.ie
 T: +44 7969331746
 W: www.anord.ie

APHaslam Ltd

Value Proposition

APHaslam Ltd and Solarhouse are part of the Haslam Group which has operated in the electrical business for more than 60 years. APHaslam supply industrial electrical equipment including renewable energy products for all sectors and also market products through electrical wholesalers, contractors, consultants/specifiers and energy suppliers.

Products & Services

- > Supply and Fit Solar Thermal Systems for domestic and commercial applications
- > Wind Turbine Control and Installation systems – Vertical Axis Wind Turbines
- > DC – AC Inverters for Solar Applications
 - DC switch disconnectors and circuit protection devices
- > Energy Control Panels and ATEX Certified Hazardous Area Application Products
- > Heat Trace Protection materials and On-Site Audit services

Key Customers

Industrial sectors including Pharmaceutical, Chemical and Petro-chemical, Power Generation and Utilities.

Standards & Certifications

ISO 9001

Contact Details

Dublin Address:

Paul Haslam

14 Sunshine Ind. Estate, Crumlin Road,
Dublin 12, Ireland

E: paul.haslam@aphaslam.ie

T: +353 1 453 2522

W: www.aphaslam.ie

Cork Address:

4 Richfield Business Park, Ballycurreen,
Kinsale Road, Cork, Ireland

E: salescork@aphaslam.ie

T: + 353 21 432 3770

Arigna Fuels

Value Proposition

Arigna Fuels provides a quality, high-heat, low-ash coal briquettes product that is long-lasting and offers the best value for money in the market. All products are available in convenient 20kg bags as well as the more traditional 40kg bags. All bagged pallets are individually wrapped with a durable shrink hood which protects them in all weather conditions, keeping the product clean.

Products & Services

Arigna Fuels manufactures and distributes low-sulphur smokeless fuels known as 'coal briquettes'. The best known brand names are COSYGLO & ECOBRITE although some products are sold under other brand names. Products are made using anthracite, coke and coal screenings.

Products include:

- > COSYGLO Open Fires
- > COSYGLO Smokeless Open Fires
- > ECOBRITE Solid Fuel Cookers & Stoves
- > ECOBRITE EXTRA AGAs & Glass Fronted Appliances

Key Customers

Arigna currently operates in the Irish & UK markets and is currently expanding into Northern Europe. Key clients include Bord Na Mona & Stafford's.

Standards & Certifications

ISO 9001:2000

Contact Details

Mr Peter Layden, Managing Director
Carrick-on-Shannon, Co. Roscommon
E: peter@arignafuels.ie
T: +353 71 964 6002
F: +353 71 964 6016
W: www.arignafuels.ie

Energy – Value Proposition

Automsoft's technology manages the collection, storage and visualisation of data in all areas of energy from generation through transmission and distribution to consumption. The value proposition to utilities for generation is to have all data associated with management systems, control systems and monitoring systems for the power generation activity stored and available online for analysis, prediction and optimisation. For transmission and distribution the value proposition is to collect continuous data on the network and its operations and maximise the operation of the T&D asset and minimise downtime. In consumption and smart grid, Automsoft offers the ability to securely manage massive amounts of data (metering data, usage data, device information) on standard hardware with no degradation in performance at low cost. Theoretical limits of Automsoft data management are in the exabyte range which effectively means an infinite number of buildings and areas can have data from metering systems collected at any time intervals.

Automsoft's technology enables

- > Increased efficiency of power generation activity
- > Remote visualisation of all systems
- > Data management for distributed generation such as wind and solar
- > Optimised asset management
- > Remote turbine management
- > Smart Grid data management
- > Building energy management

Products and services

Automsoft has two product sets one of which is rapidHistorian which collects and stores data. It interfaces with every device, sensor and control system to collect and store time series continuous data, alarm and condition data and binary data (video, documents etc.). The technology incorporates a range of patents which enable performance beyond any product on the market. Automsoft also offers nuaViews, an independent web-based business intelligence and application development environment which enables the development of shrink wrapped applications for data visualisation as well as user defined analysis, dashboards and business mashups. nuaViews incorporates Automsoft's Discovery technology which enables the automatic identification of data sources both from Automsoft and non-Automsoft databases such as Oracle, data historians, SQL Server and incorporation for those data sources into any analysis and reporting.

Key Customers

BP, Exxon Mobile, Thames Water, AES, Pfizer, Genzyme, Baxter

Standards & Certifications

ISO 9001:2000 accreditation and winner of ISA Technical Innovation Award 2003

Contact Details

Paraic O'Toole
 24 Lansdowne Road, Dublin 4, Ireland
 E paraic.otoole@automsoft.com
 T: +353 1 449 1100
 W: www.automsoft.com

Ballytherm Ltd

Value Proposition

Ballytherm manufactures Polyisocyanurate (PIR) insulation boards which has been tested and certified to offer a U Value of 0.022. Ballytherm also manufacture a Dry Lining Board which offers a U Value of 0.026.

Products & Services

Ballytherm manufactures PIR insulation board for floors, walls and roofs in numerous face finishes and in a large number of thicknesses ranging from 25mm to 160mm. Its floor and roof insulation comes in a standard 1200mm X 2400mm board and the cavity wall insulation board comes in a 1200mm X 450mm board and is tongued and grooved.

Ballytherm also manufactures a dry lining board in a number of thicknesses.

Key Customers

Insulation Distributors, Builders Merchants & Hardware Merchants

Standards & Certifications

Irish Agrément Board Certificate No. 05/0220
British Board of Agrément Certificate
No. 07/4427 07/4422

All of Ballytherm products are certified by the Irish Agrément board and the British Board of Agrément.

Contact Details Ireland

Padraig Gilroy
Annagh Industrial Park, Ballyconnell,
Co. Cavan, Ireland
E: info@ballytherm.ie
T: +353 49 952 7000
W: www.ballytherm.ie

C&F Green Energy

Value Proposition

C&F wind turbines are unique in the small to medium sector in that they employ technology that is typically reserved for Megawatt scale turbines. This enables C&F turbines to realise an exceptional energy capture which results in very aggressive payback timescales. Leveraging off its worldwide manufacturing base, C&F is able to offer these turbines at a competitive sales price.

Products & Services

C&F Green Energy currently sell wind turbines of class 6,11 and 15KW. In the coming months, the company plans to release a 20 and 50KW product.

Key Customers

Domestic. Farm/Small Business.

Standards & Certifications

CE. UK MCS Pending

Contact Details

Dermot Young
C&F Green Energy, Cashla, Athenry,
Co. Galway, Ireland
E: dermot.young@cftooling.ie
T: +353 91 790 868
M: +353 87 903 3317
W: www.cfgreenenergy.com

Campion Concrete Products Ltd

Value Proposition

Campion Concrete Products has developed an award winning highly insulated concrete wall panel building system (ICP). The wall panels are manufactured in factory controlled conditions with pre-installed insulation to ensure houses, apartments, hotels and nursing homes, for example, all meet the requirements and insulation standards for new buildings. All electrical sockets & conduits are pre-set into the wall panel. Internal walls have a smooth finish ready for decoration. External walls are scratch coated to receive the clients own choice of finishing. A house, for example, can be erected in 2 days including concrete floors resulting in a large reduction in on-site labour costs. Campion Concrete Products is a winner of the OVERALL BEST PRODUCT OF THE SHOW AWARD at the Building Exhibition in the RDS in 2008.

Products & Services

- > Design & engineering of off site Insulated concrete wall panels systems. Campion Concrete's ICP system was awarded the OBPS
- > High thermal performance achieving Building Energy Rating 'A' rating for houses
- > Concrete flooring throughout the building
- > Electrical components pre-fitted
- > Large reduction in onsite labour reducing overall building costs (houses erected onsite in 2 days)
- > Full range of concrete products supplied to the agricultural sector. Agricultural buildings manufactured. Cattle slats, piggyery housing etc.

Key Customers

- > Building contractors & developers.
- > One off house builders both trade & Public
- > Farmers

Standards & Certifications

Winners of the OVERALL BEST PRODUCT OF THE SHOW AWARD at the RDS in 2008.

Contact Details

Liam Campion
 Kilcotton, Borris-in-Ossory,
 Co. Laois
 E: j.campion@campiongroup.ie
 T: +353 57 873 8579
 W: www.campionhomes.ie

Certification Europe

Description of Business

Certification Europe is an international certification, training and inspection authority headquartered in Dublin with satellite operations in UK, Italy, Turkey and Japan. The company offers a range of services in the area of business improvement standards and through its *Certification Services Division* and *Training Division* can train and/or certify companies to a range of well known and niche standards (typically ISO) ranging from those for energy management to IT service management.

Certification Europe's approach to the external audit process is unique and encompasses a professional, client focused and dynamic approach where companies are encouraged to improve their businesses in line with international standards.

The company's *Inspection Division* is the only (Type A) independent inspection contractor in Ireland and conducts a range of independent inspection activities for both public and private sector clients, in the environmental and/or occupational health and safety area.

Products & Services

The *Certification Service Division* offers certification to the following internal business improvement standards:

- > EN 16001/ISO 50001 - Energy Management
- > ISO 14001 - Environmental Management
- > ISO 9001; ISO 13485 (class 1) and TickIT - Quality Management
- > OHSAS 18001 - Occupational Health & Safety Management

- > ISO 20000-1: IT Service Management
- > ISO 38500 – IT Corporate Governance
- > ISO 27001 - Information Security Management
- > BS 25999 - Business Continuity Management
- > Swift 3000 – Corporate Governance and
- > E-signatures Directive

Key Customers

Abbott, Astellas, AIB, Bank of Ireland, BT, Comptroller and Auditor General, Department of Defence, Diageo, DePuy, élan, Greenstar, LV=, Revenue Commissioners, Singularity, Thorntons Recycling, Quinn Group.

Standards & Certifications

- > Accredited by the United Kingdom Accreditation Service (UKAS) & Irish National Accreditation Board (INAB) to ISO 17021 – the standard for companies offering certification;
- > Accredited by INAB to ISO 17020 – the standard for Inspection Bodies;
- > Accredited by IT Service Management Federation (ITSMF) to certify conformity to ISO 20000-1
- > Accredited by the UK Association for Payment Clearing Services (APACS) to certify conformity to Standard 55

Contact Details-

John Ryan, Commercial Director
 Block 20a, Beckett Way, Parkwest,
 Dublin 12, Ireland
 E: jryan@certificationeurope.com
 T: +353 (0)1 6429300
 F: +353 (0)1 6205535
 W: www.certificationeurope.com

CES Energy Ltd

Value Proposition

CES Energy Ltd delivers on-site sustainable energy generation solutions and energy efficiency products, on a business to business basis.

CES Energy Ltd is a wholly Irish owned company with a proven track record in the successful delivery of turnkey energy solutions. The company designs, builds, maintains and operates energy centres in Ireland, England and Australia.

CES also offers turnkey energy solutions under a Power Purchase Agreement (PPA) whereby CES Energy fund the cost of the project by selling the outputs (electricity, heating, cooling, steam, etc) to the customer.

CES Energy has a dedicated Maintenance and Operations department that ensures customers are achieving the best results. Solutions are successfully in operation within the Industrial, Pharmaceutical, Commercial, Office building, Healthcare and Leisure sectors.

Products & Services

On-site power generation solutions include:

- > Combined Heat and Power (CHP)
- > Tri-Generation
- > Biomass CHP
- > District heating solutions
- > Wind Powered Generation

High efficiency products include:

- > Close control CRAC units for data centre and server rooms
- > Air/water and absorption chiller including free cooling
- > Air conditioning and comfort cooling
- > AHU's and heat recovery
- > Chilled beams
- > District Heating Consumer Units and billing system

Key Customers

Allied Irish Bank, A & L Goodbody, Boston Scientific, Citi, Hilton

Standards & Certifications

CES Energy has an excellent safety standard over the past 10 years and adheres to a strict code of engineering excellence. Statements, memberships and accreditations are available on request.

Contact Details

Brendan Marren
1 Seapoint Building,
44-45 Clontarf Rd, Dublin 3, Ireland
E: brendanm@cesenergy.ie
T: +353 1 853 0290
W: www.cesenergy.ie

Clearpower Ltd

Value Proposition

The Environmental Services Division of Clearpower is a leading recycler of sludges and slurries produced from industrial and municipal waste water treatment plants. Working in a tightly regulated environment, Clearpower has developed proven processes for the controlled application and re-use of this waste as an organic fertiliser for growing crops; reducing the growers need for additional chemical fertilisers. To ensure the use of sludges in an environmentally sound manner Clearpower has access to an extensive landbank and has developed robust control and reporting procedures. Clearpower also designs, builds and operates biological treatment systems for liquid effluent and leachates using short rotation coppiced willow plantations. These systems are cost effective and solve an effluent issue for Clearpower's clients while at the same time delivering a regular crop of CO2 neutral woodchip biofuel.

Clearpower also has an energy division specialising in the turnkey design, build, operation and maintenance of commercial scale biomass heating systems, and is the leading operator in Ireland in this space.

Products & Services

- > Sludge dewatering
- > Sludge disposal
- > Effluent treatment systems

Key Customers

Leading municipalities including Kildare, Carlow, Cavan, Dublin, Roscommon and Laois County Councils.

Leading Industrial players in the Pharmaceutical, Brewing and Agri-food sectors.

Contact Details

John Heffernan or Simon Dick,
 Joint Managing Directors
 Unit 1, Blessington Business Park,
 Blessington, Co. Wicklow, Ireland
 E: info@clearpower.ie
 T: +353 45 857 578
 F: +353 45 857 584
 W: www.clearpower.ie

Comeragh Controls

Value Proposition

The market currently has two fields, Basic Heating Controls & BMS. The iCon system fits between these two, as it is inexpensive and yet configurable to suit domestic & commercial heating / cooling applications.

Products & Services

The iCon system is different from existing controls since it can manage multiple energy sources such as boilers, geothermal pumps, and solar panels through to energy exchangers such as underfloor heating, radiators and domestic hot water in a single package.

Management is from a central console, which schedules up to 32 zones.

Each zone has an independent 7-day scheduler and temperature settings to achieve the desired comfort level.

The control system will self learn the thermal inertia of the building and optimise the start/stop times to suit the home owner's life style.

Time, effort and expertise have been invested to develop an intuitive, easy-to-use interface which enables the end user central control of the heating at the touch of a key.

Key Customers

Comeragh Controls designs and manufactures Control Systems for many diverse markets including:

- > Domestic
- > Hotel
- > Nursing home & Hospital
- > Sports Facility
- > Forecourt Show Room
- > Office & School

Standards & Certifications

CE Approved

Contact Details

Peter Carey
Business Development Manager
Comeragh Controls, Upper Irishtown,
Clonmel, Co. Tipperary, Ireland
E: petercarey@comeraghcontrols.com
T: +353 1 868 3540
W: www.comeraghcontrols.com

Crowley Carbon

Value Proposition

Crowley Carbon is the leading specialist in energy demand side reduction (DSR). Using Danú, the world's first Expert System for DSR solutions, Crowley Carbon reduces client energy consumption by applying a comprehensive range of energy efficiency technologies. The solution devised by Danú from a database of over 1,000 products, deployed by Crowley Carbon, is specifically tailored to meet client goals for savings, payback period and CO₂ emission reductions. Typical savings of up to 30% are realised and sustainable.

Products & Services

Crowley Carbon offers a complete end to end service with the single objective of reducing a client's energy costs. This covers:

- > A complete energy usage blueprint of an organisation
- > An extensive catalogue of energy saving products/devices
- > A sophisticated comparison engine to determine the best available savings
- > Project planning and installation
- > Verification that the savings were achieved
- > Future proofing

'We guarantee the savings so it is a no risk option.' Sales Manager

Key Customers

Topaz, Pfizer, TCG, SuperValu, Danoptra

Contact Details

Colm Doherty

1 Eden Gate Centre, Delgany,
Co Wicklow, Ireland

E: colm@crowleycarbon.com

T: +353 86 402 9776

W: www.crowleycarbon.com

Neale Deeley

E: neale@crowleycarbon.com

T: +44 7766 702601

W: www.crowleycarbon.com

Cylon Controls Ltd

Value Proposition

Cylon Controls Limited provides smart energy control solutions for buildings. Founded in 1985, Cylon is now the largest independent manufacturer of Building Energy Management Systems in Europe. Its product range has been installed in all categories of buildings across Europe, North America, Asia, the Middle East and Africa, to maximise comfort and energy efficiency. Being an independent BEMS manufacturer allows Cylon to be a flexible and reliable partner.

Products & Services

The Cylon UnitronUC32 Building Energy Management System (BEMS) is the brains of the building as it controls the heating, ventilation, air conditioning and lighting to maximise the building's energy efficiency. It offers a wide choice of integration options including; BACnet, Modbus, M-Bus, KNX and OPC. The Active Energy service offers full energy management solutions from the display of real time energy consumption of a building to the end user in charting, reporting and Green Screen form, through to full remote energy management of the building to maximise the energy efficiency and cost savings to a customer.

Key Customers

Local Government, Commercial, Education, Healthcare, Retail, Leisure
Canary Wharf, EADS, Boots, Microsoft, University College Dublin

Standards & Certifications

ISO 9001:2000, CE Mark, UL Listed, RoHS & WEEE Compliant, CIBSE patron, BCIA member, Construction CPD Certification Service member, BACnet EU member

Contact Details Ireland

Joe Temple
Clonshaugh Business & Technology Park,
Clonshaugh, Dublin 17
E: info@cylon.com
T: +353 1 245 0500
F: +353 1 245 0501
W: www.cylon.com

Contact Details Overseas

UK: Steve Kear
Cylon Controls UK Limited
Endeavour House, Coopers End Road,
Stansted, Essex CM24 1SJ, United Kingdom.
T: +44 87 0178 1800

Spain, Benelux: Stephen Carroll
Scandinavia, Norway & Sweden:

Martin Berg

Germany, France & Portugal:

Ralph Lammers

China: Jin Zhe

Australia & New Zealand: Ross Wilson

Other markets: Joe Temple

D3D (DigiTech 3D)

Value Proposition

D3D (DigiTech 3D), established in 1996, provides through the combination of technology, experience & skills enhanced 3D survey, mapping & computer modelling services. D3D provide 3D enhanced topographical mapping allowing for the generation of accurate computer models. 3D modelling is regarded as mapping of the future, allowing for complex drawings to be visualised as an accurate mini movie. Proposed new developments can be placed into the existing model, allowing developers, designers, planners and the public to understand the proposal.

Products & Services

What D3D does:

- > Create a mathematical model of the environment
- > Photorealistic CGIs of exterior and interior of buildings
- > Verifiable photomontages
- > Accurate city models
- > Visual intrusion & shadow analysis
- > Road & bridge models
- > Marketing CGIs & animations
- > 3D prototype computer models
- > European consultants for KLT range of photogrammetric software.

Key Customers

Local Authorities, Semi State Bodies, Planners, Engineers, Architects, Developers, Airport Authorities, Marketing & PR Companies, Film / Media Companies, Golf Course Architects / Owners

Standards & Certifications

Member of the Institution of Surveyors
Foundation Mark
Currently seeking approval for ISO 9001:2000

Contact Details Ireland

Sean Roche
Unit 13, North Street Business Park,
North Main Street, Swords,
Co. Dublin, Ireland
E: sean@d3d.ie
T: +353 1 813 5000
W: www.D3D.ie

Datac Control International Ltd

Value Proposition

Datac Control International Ltd is a world leader in Telemetry, Supervisory Control and Data Acquisition (SCADA) and M2M products and services.

Datac has unrivalled system integration capabilities. Datac has teams of highly trained professionals that build cost-effective solutions and supply state of the art hardware and software telemetry products to system integrators, OEMs and end-users.

Datac's solutions are the first choice of many of the world's leading utility companies because the company offers the best value for money with excellent customer support. Datac's solutions are robust, secure, stable and reliable.

Products & Services

- > Supervisory Control and Data Acquisition (SCADA) software
- > RTUs (Remote Terminal Units)
- > PLCs (Programmable Logic Controllers)
- > Alarm Management Systems
- > Cryogenic Gas Monitoring
- > GemSets (Generator Monitoring & Secure Tracking Device)
- > Propane Gas Monitoring
- > Hardware and Software Integration

Key Customers

Datac's customers are found in Oil and Gas, Water/Wastewater, Marine, Telecommunications, Power Utilities.

Standards & Certifications

ISO 9001 2000 Certified; ATEX approved; EN50020 accredited

Contact Details Ireland

Ray O'Flaherty
Datac Control international Ltd,
Unit 19, Enterprise Centre,
Pearse Street, Dublin 2
E: roflaherty@datac-control.com
T: +353 1 671 7377
W: www.dataonline.com

Contact Details Overseas

Declan McCarthy
E: dmccarthy@datac-control.com
T: +353 85 2 2987 0240
W: www.dataonline.com

Delap & Waller EcoCo

Value Proposition

Delap & Waller EcoCo (DWEcoCO) is a leading sustainable design and operation consultancy. The company's multi-disciplinary team of architects, engineers and researchers takes a holistic approach to projects, focusing on life cycle analysis and providing innovative solutions in the area of both energy demand reduction and energy supply optimisation. DWEcoCo has experience with EU funding applications and Market Research Studies for companies wishing to expand their operations abroad in the area of energy markets.

Products & Services

- > Detailed energy efficiency audits
- > Innovative Renewable Energy Supply systems
- > Peer review of proposals for Renewable Energy Supply
- > Training for professionals and general public on renewable energy systems and building refurbishments
- > Sustainable building design
- > Building physics consultancy
- > EU funding consultancy and applications
- > Market Entry Research studies

Key Customers

Developers, Main Contractors / Builders, Architects, Funding Companies, Building Owners / Occupiers, Property Management Companies, Government Departments, Financial Institutions and Utilities

Standards & Certifications

ISO 9001:2000
 Certified BER Assessor for Residential Buildings and Non Residential Buildings
 Accredited BREAAAM Assessors

Contact Details Ireland

Jay Stuart
 Bloomfield House, Bloomfield Avenue,
 Dublin 8
 E: jstuart@dwme.ie
 T: + 353 1 411 3058
 W: www.dwecoco.ie

Contact Details Overseas

Liam O'Hagan, Carl Carrington,
 Jay Stuart, Joseph Ennis
 Offices in London, Bucharest,
 Warsaw, Tripoli, Algeria
 E: liam@delapandweller.com
 T: +44 287 131 8808
 W: www.delapandwaller.com

Delap & Waller Energy Bureau

Value Proposition

The Energy Bureau future-proofs and improves the energy performance / asset value of new and existing buildings. The company uses sophisticated tools to evaluate the design concepts of proposed new buildings, systems and operations of existing buildings to deliver solutions which are low energy, low carbon and robust in operation. The Energy Bureau brings intimate knowledge of building systems, measures for the façade design and the building envelope, BER Certification and robust financial appraisal methods.

Products & Services

- > Review of development proposals single building or Masterplan for high level advice on energy reduction strategies. Advice on regulatory and local authority requirements.
- > Detailed evaluation (Simulation) of designs of proposed new buildings to provide detailed advice in measures to be adopted.
- > Investment appraisal of energy supply proposals (CJP, Tri-generation, Biomass etc.),
- > Preparation of tender packages for energy supply systems CHP, Tri-generation, Biomass etc.
- > BER survey and certification for non-domestic buildings.
- > Solutions for improving the efficiency of building services systems within buildings.
- > Appraisal of novel energy solutions and waste / energy systems. Integration of these systems into construction contracts.

Key Customers

Architects, Builders, Developers, Funding Companies, Building Owners / Occupiers, Property Management Companies

Standards & Certifications

Accredited BREAAM Assessors
Certified BER Assessor for Residential Buildings and Non Residential Buildings

Contact Details Ireland

Stephen Murray
Bloomfield House, Bloomfield Avenue,
Dublin 8
E: smurray@dwme.ie
T: +353 1 453 4031
W: www.delapandwaller.com

Contact Details Overseas

Liam O'Hagan, Carl Carrington,
Michael O'Doherty, Jay Stuart,
Joseph Ennis
Address: Offices in London, Bucharest,
Warsaw, Tripoli, Algeria
E: smurray@dwme.ie
T: +353 1 453 4031
W: www.delapandwaller.com

Delap & Waller Mechanical & Electrical Consulting Engineers Ltd

Value Proposition

Delap & Waller Mechanical & Electrical Consulting Engineers Ltd is Ireland's largest and longest established Building Services Engineers. With resources of 140 people in 6 offices in Ireland, 5 offices in UK and Europe the company has a significant track record in Commercial (Office & Retail), Residential (Apartments and Housing), Healthcare, Infrastructure, Educational and Governmental Projects and has worked successfully on projects in Ireland, UK, Poland, Romania, Saudi Arabia, Nigeria and Libya.

Products & Services

Building Services Design, Site Infrastructure, Site Utilities, Simulation Design Services, Sustainable Design, CHP Systems, Specialist Lighting, Transport Systems, CFD Assessment, BER Assessments, Energy Audits of New & Existing Buildings, Project Management Services, Cost Control Services

Key Customers

Developers, Main Contractors / Builders, Architects, Funding Companies, Building Owners / Occupiers, Property Management Companies, Government Departments, Financial Institutions

Standards & Certifications

ISO 9001: 2001, Members of Association of Consulting Engineers of Ireland, Members of Chartered Institute of Building Services Engineers

Contact Details Ireland

Michael O'Doherty
Bloomfield House, Bloomfield Avenue,
Dublin 8
E: modoherty@dwme.ie
T: +353 1 453 4031
W: www.delapandwaller.com

Contact Details Overseas

Liam O'Hagan, Carl Carrington,
Michael O'Doherty, Joseph Ennis
Address: Offices in London, Bucharest,
Warsaw, Tripoli, Algeria
E: modoherty@dwme.ie
T: +353 1 453 4031
W: www.delapandwaller.com

DHS Ltd (Design Hosting Software)

Value Proposition

DHS is developing personal energy management software called SNAPGLANCE. The system is designed to enable the remote energy management of a range of personal products from home appliances to Electric Vehicles. The key is to have a single energy management interface which consumers download onto different devices. What is unique with DHS's product is that it combines the EV with the Home system into a single energy management unit. The product also allows for multiple devices in the home to be added and enables the user to set a CO₂ consumption or spend limit. The system will then automatically adjust the product usage to fit the target.

Products & Services

DHS specialises in HMI (Human Machine Interface) for small screen interfaces on cars, mobile phones and other touch screen devices like ATM machines, medical devices and aeronautical seat interfaces. We have developed the SNAPGLANCE software system for rapid interaction with small screen devices. Our key expertise is in the challenging cat telematic environment.

Key Customers

DHS works mostly in the Automotive sector where clients are Fiat Group, BMW, Toyota and their Tier 1 suppliers.

Standards & Certifications

The V.A.S.T. (Vehicle Analysis System Test) is applied to DHS's HMI development work.

Contact Details Ireland

Frazer McKimm
Shamrock Chambers, 2 Eustace Street,
Dublin 2, Ireland
E: mckimm@dhs-Ltdcom
T: +353 1 521 3260
W: www.dhs-Ltdcom

Contact Details Overseas

Guido Astorri
via G.B. Bertini 3 20154 Milan Italy
E: gastorri@dhs-Ltdcom
T: +39 3394334440
W: www.dhs-Ltdcom

eaglEdge Ltd

Value Proposition

eaglEdge is a leading innovator in fuel saving technology for the bus, coach & haulage industries. Its latest system, FuelGauge has been instrumental in reducing the fuel usage of large vehicle fleets by up to 18%, with individual driver performance commonly improved by 30-40%.

With fuel accounting for over 40% of total fleet running costs in the UK & Ireland, FuelGauge is the most complete fuel-management system of its kind on the market.

Products & Services

FuelGauge driver & fuel management system:

- > Reduced fuel spend
- > Lower CO₂ emissions
- > Increased fleet safety
- > Reduced vehicle maintenance
- > Reinforced driver training
- > Benchmarking for Driver CPC & eco-driving
- > Working Time Directive reports
- > Optional GPS tracking (free)
- > Optional passenger comfort monitoring (bus & coach fleets)

Key Customers

Elsatrans, James Quinn Transport, An Post, Syncrophi Systems.

Contact Details

Jason Byrne
Storm House, Galway Business Park, Upper
Newcastle Road, Galway, Ireland
E: jasonbyrne@eaglEdge.eu
T: +353 91 442 048
M: +353 86 841 9094
W: www.eaglEdge.eu

Ecocem Material Ltd

Value Proposition

Ecocem Materials Ltd is Europe's leading independent producer and supplier of Ground Granulated Blastfurnace Slag (GGBS), an environmentally friendly cement, in its 3 manufacturing plants in Ireland, the Netherlands, and the South of France.

GGBS is truly one of the most sustainable building products in the world as it is not only manufactured from a by product of the iron making industry, it also lasts longer so does not have to be replaced as often. Ecocem strongly promotes its environmental and technical superiority and for every tonne of ordinary Portland cement replaced by Ecocem's GGBS almost one tonne of CO₂ is saved.

Products & Services

The use of Ecocem's cement in the production of concrete makes it stronger, more durable and more resistant to chemical attack thus prolonging the life of concrete compared to concrete made solely with ordinary Portland cement.

Having been certified by the UN accredited auditors as making a real and measurable reduction in CO₂ emissions, Ecocom established an environmental consultancy called EmissionZero to guide consumers and business to reduce their carbon footprint and become carbon neutral.

Key Customers

Ecocem's GGBS is sold directly to both ready-mix and precast concrete manufacturers.

Standards & Certifications

Ecocem meets the European standard for manufacturing GGBS under EN15167-1:2006 and the GGBS used in concrete is governed by the concrete European Standard EN 206-1:2002 Concrete – Part 1: Specification, performance, production and conformity. Ecocem was certified that it reduces CO₂ emissions, by UN accredited Auditors

Contact Details Ireland

Fran Nolan
Portview House, 3rd Floor,
Thorncastle Street, Ringsend, Dublin 4
E: info@ecocem.ie
T: + 353 1 667 0900
W: www.ecocem.ie

Contact Details Benelux

René Albers
Orcem, Graanweg 22A,
4782 PP Moerdijk, Nederland
E: info@orcem.nl
T: + 31 168 382 324
W: www.orcem.nl

Contact Details France

Philippe Malfait
Ecocem France SAS, Batiment 3,
Parc Club du Golf 13856 Aix en Provence
E: contact@ecocem.fr
T: + 33 442 907 630
W: www.ecocem.fr

Value Proposition

Edpac specialises in product design and flexibility in the preparation of an engineering solution in the area of cooling and heat recovery. Coupled with intelligent control systems, high coefficients of performance and efficiencies can be achieved.

Products & Services

Design and Manufacture of renewable heating and cooling products for the residential, commercial and computer room air conditioning markets. Products include:

- > Computer Room Air Conditioning with capacities from 5 to 150kW
- > Heat Recovery products for residential and commercial applications with proven efficiencies of over 80%
- > Residential and Commercial air conditioning and air handling systems

Key Customers

EDPAC distributes worldwide with some direct distribution partners in many countries. It also has strategic partnership agreements in place with Johnson Controls in many territories and with Cofely Elyo Suez in Northern Europe.

Standards & Certifications

ISO 9001:2000

Contact Details

Noel Lynch
Carrigaline Industrial Park, Carrigaline,
Co. Cork, Ireland
E: noel.lynch@edpac.com
T: +353 21 437 2850
W: www.edpac.com

EFT Control Systems Ltd

Value Proposition

Energy Manager v5.2 is a Enterprise Energy Management System provided by EFT.

- > The product is a proven industry solution that has been built up over ten years to optimise clients business energy usage enabling energy savings of up to 30%
- > The company offers a fully branded and customisable Energy Management solution for leading utility energy suppliers (ESBIE) and energy users worldwide
- > Data Integrity: The degree of data integrity is extremely high due to the usage of cutting edge proprietary technologies
- > High level reporting analysis and user customisation of reports offer unparalleled flexibility in the energy market

Products & Services

The core software product is Energy Manager Enterprise Edition. A hosted version of Energy Manager (Software As a Service) is also offered.

Hardware consists of the Optimiser range of Smart Meter and Data Loggers.

Key Customers

ESB Independent Energy, Boston Scientific, Allied Irish Bank, Apple, Bausch & Lomb, Braun, Pfizer, CWS Boco, Hertz, Dunnes Stores, Intel, Schering Plough

Standards & Certifications

Hardware is WEE and CE compliant. Software is cutting edge using the latest development tools and frameworks

Contact Details Ireland

Ciaran Kennedy
Unit 59-61, Egan's Business Center,
Dargle Road, Bray, Co Wicklow, Ireland
E: ciaran.kennedy@eft.ie
T: + 353 87 236 7282
+353 1 286 9592
F: +353 1 204 0693
W: www.eft.ie

Contact Details Overseas

Craig Ennis
EFT Energy Inc, 345 Park Avenue,
17th Floor Ireland House,
New York, United States
E: craig.ennis@eft.ie
T: +001 516 477 2254
W: www.eft-energy.com

Eirdata Environmental Services Ltd

Value Proposition

Eirdata is an energy consulting company specialising in providing independent energy efficiency consultancy to a wide range of industries including pharmaceutical, food and drink, power generation and utilities. Eirdata provides practical, hands-on approach to energy surveys, audits and implementation of energy saving projects. Eirdata takes an integrated approach to energy management which includes engineering competencies, energy management systems, training services and use of IT systems.

Products & Services

Eirdata has ten engineers employed in energy efficiency assignments. Their engineering competence covers a wide spectrum of disciplines including electrical, mechanical, process, chemical, buildings, renewables and automation. Eirdata provides strategy consultancy, energy audits and project implementation, energy efficiency design consultation, implementation and management of M&T systems and training services. Eirdata has developed certified energy management systems for the ISO393 and EN16001 standards for a significant number of clients, including the first energy management system in Europe to be certified to EN16001. Eirdata is the exclusive provider of Certified Energy Manager training in Europe on behalf of the Association of Energy Engineers.

Key Customers

Eirdata's key customers include Novartis, ESB, SEAI, Merck Sharp and Dohme, Millipore and Pfizer.

Standards & Certifications

No quality certification but pharmaceutical companies have audited Eirdata's quality systems to ensure compliance with FDA requirements

Contact Details

Ian Boylan
Unit 5, Carrigaline Industrial Estate,
Carrigaline, Co. Cork, Ireland
E: ian.boylan@eirdata.ie
T: +353 86 235 3888
+353 21 483 4330
W: www.eirdata.ie

Enerit Ltd

Value Proposition

Enerit reduces energy costs for medium and large energy users by focusing on systematic energy management supported by action-oriented web-based software. Enerit's unique approach includes the latest techniques from EN 16001 & ISO 50001.

Enerit goes beyond monitoring and targeting (M&T) and standard energy auditing to identify energy saving opportunities, create plans, and track energy actions through to completion. Enerit's holistic approach achieves energy savings through changes in the organisation, human behaviour, and equipment.

Products & Services

Product - Energy Management Planning and Action Tracking Software

This web-based software is aimed at:

- > organisations pursuing EN 16001 and ISO 50001;
- > energy management consultants who run energy management bureaus

Service - Energy Management Bureau

Enerit's Energy Management Bureau is an outsourced systematic energy management function for organisations with energy bills of €0.5 million and upwards.

The service delivers energy expertise in a number of ways: on-site; by phone; email and over the Web. The service provides a high degree of automation through web-based software. Enerit reduces energy costs in commercial and institutional buildings by up to 20% with low-cost and no-cost measures alone.

Key Customers

Alcatel, Philips, BNFL, Arjo Wiggins, Colgate-Palmolive, Abbott, Allergan, SEAI, National University Ireland, Office of Public Works

Standards & Certifications

Software for ISO 9001, ISO 14001, OHSAS 18001, EN 16001, ISO 50001

Contact Details

Dr Paul Monaghan

QSET Building,
Parkmore West Business Park,
Galway, Ireland

E: paul_monaghan@enerit.com

T: +353 91 709 802

+353 91 709 818

W: www.enerit.com

Enviritech Engineering

Value Proposition

Enviritech Engineering Ltd offers a range of renewable energy solutions and provides state of the art equipment and expertise at an affordable price. Enviritech designs geothermal heating systems and electric generation facilities such as combined heat & power installations, hydro, solar, wind and diesel Generators. The company specialises in efficient & environmentally friendly alternative power sources and water & wastewater treatment solutions.

Products

- > Geothermal, wind, solar, biomass and heating systems
- > Hydro Energy
- > Heat Pumps
- > Wind Turbine Control & Installation Systems
- > Evacuative Tube Solar Water Heaters
- > Sludge and grass digestion and gasification plants
- > Bio-fuels
- > Insulation

Services

Energy Consultancy
Building Energy Rating/Energy Auditing

Standards & Certifications:

Approved by Sustainable Energy Ireland (SEI)
EN14511
EN 255
EN 12976
CE Marking

Contact Details

Mr Andrew Flood
Unit 6, Enterprise and Research Centre,
Institute of Technology Carlow,
Kilkenny Road, Co. Carlow, Ireland
T: +353 59 917 6261
M: +353 87 240 8339
F: +353 59 917 6372
W: www.etech.ie

EpiSensor Ltd

Value Proposition

EpiSensor's SiCA Platform provides a secure, reliable and low-cost means of capturing real-world data and making it exceptionally easy to deploy and use. The company's wide range of highly accurate sensors can measure temperature, energy usage (electricity, gas, water and heat), light levels, water quality and other parameters. EpiSensor's SiCA platform transmits this information to a central database using open wireless standards such as ZigBee and GPRS, where it is used to take appropriate control actions.

Products & Services

EpiSensor supplies the sensors, routers, gateways and monitoring software to build wireless sensor networks to meet customers' needs. Customers include OEMs and System Integrators who build EpiSensor's products into their products and systems, as well as distributors and resellers who install its products in their customers' sites.

The SiCA Platform has many applications, including Smart Utility Metering (Water, Gas, Electricity), Assisted Living, Demand Response, Street Lighting, Building Management, Temperature Monitoring, Server Farm Monitoring, Water and Quality Monitoring among others. It is a complete end-to-end system and is simple to install, making it ideal for retrofit situations.

Key Customers

EpiSensor has systems running in several countries where several million sensor nodes will be required and has marketing partnership agreements with several large organisations including IBM.

Standards & Certifications

All components of the SiCA Platform have been designed to meet the appropriate standards and are CE marked accordingly. FCC approval for EpiSensor's wireless transmitters is pending.

Contact Details Ireland

Brendan O'Malley
Moylish Park, Limerick, Ireland
E: brendan.omalley@episensor.com
T: +353 61 490 185
W: www.episensor.com

Contact Details Overseas

Patrick Culloo
Moylish Park, Limerick, Ireland
E: pculloo@episensor.com
T: +353 61 490 185
W: www.episensor.com

EPS Pumping & Treatment Systems

Value Proposition

EPS was established in 1968 and is now Ireland's largest company supplying and installing pumping and treatment equipment solutions. The EPS group is involved in the design, manufacture, installation, commissioning, operation and maintenance of water & wastewater treatment systems and pumping solutions. EPS has built expertise in effluent treatment, water treatment, chemical & process pumping, rural water supply, domestic water and waste-water treatment and borehole pumping. With 5000m² facilities to build sophisticated plant and equipment and a treatment division specialising in the treatment of clear and solid liquids, EPS is able to service large and small populations for the industrial, domestic and agricultural markets. The company has offices in Cork, Mayo, Laois, Kildare, Tyrone, Fermanagh and Edinburgh.

Products & Services

- > Effluent Treatment
- > Water Treatment
- > Packaged Treatment
- > Chemical & Process Pumping
- > Operation, Commissioning & Maintenance Packages
- > Rural water, domestic water supply
- > Borehole pumping, pressurisation units, pump assembly

Processes include Dissolved Air Flotation; Diffused Air System; Activated Sludge Processes; Anaerobic Treatment; Sludge Treatment – Aerobic and Anaerobic & Water Treatment.

Key Customers

EPS has the resources to cater for a range of customers in the municipal, commercial, industrial, retail, domestic and agricultural sector.

Standards & Certifications

- > ISO 9001:2000
- > ISO 14001:2004
- > OHSAS:8001
- > CEEQUAL
- > UVDBTM Verify with Achilles
- > Irish Agrément Board
- > CE Marking Ethos Partnership
- > Safe-T-Cert

Contact Details

Mr. Patrick Buckley Director
 EPS, Mallow Business & Technology Park,
 Quaterstown, Mallow, Co. Cork, Ireland.
 E: pdbuckley@epsireland.com
 T: +353 22 31200
 W: www.epsireland.com
www.epsonline.ie

Fehily Timoney & Company

Value Proposition

Fehily Timoney & Company (FTC) is a multidisciplinary consultancy specialising in the delivery of complex projects for clients both in Ireland and internationally. FTC is recognised as one of Ireland's premier knowledge-focused consultancies, holding technical excellence, sustainability and client focus as core values. Founded in 1990, FTC is now one of the largest Irish owned independent consultancies.

Products & Services

FTC's centres of excellence are Energy, Environment, Waste Management and Civil Infrastructure, including:

- > Biowaste Management
- > Contaminated Land Assessment/Treatment
- > Energy from Waste (thermal treatment)
- > Environmental Impact Assessment
- > Environmental Monitoring
- > Geotechnical Engineering including peat stability assessment
- > Landfill Development/Remediation
- > Life Cycle Assessments – WRATE Modelling
- > Mechanical Biological Treatment
- > Sludge Management
- > Unauthorised Landfill
- > Waste Management Planning
- > Energy Audits
- > Grid connection feasibility
- > Landfill Gas Energy Modelling
- > Wind resource assessment
- > Wind farm planning
- > Hydrology and hydropower studies
- > Appropriate Assessments

- > General and Specialist Ecology Services
- > Hydrology / Flood Assessments
- > Water and waste water design
- > IPPC Licensing
- > Strategic Environmental Assessment
- > Sustainability services
- > Visual Impact Assessment
- > Noise modelling/abatement
- > Expert Witness

Key Customers

Local authorities, Greenstar, Airtricity, Bord Gais Eireann, Coillte Teoranta, Bord na Mona, Environmental Protection Agency

Standards & Certifications

- > ISO 9001:2000
- > Engineers Ireland Corporate Affiliate
- > Member of the Association of Engineers of Ireland

Contact Details

Gerry O'Sullivan
 Core House, Pouladuff Road, Cork, Ireland
 E: gerry.osullivan@ftco.ie
 T: +353 21 496 4133
 W: www.fehilytimoney.ie

Contact Details Overseas

Adrian Duffy
 Mill House, Ashtown Gate, Navan Road,
 Dublin 15, Ireland
 E: adrian.duffy@ftco.ie
 T: +353 1 658 3500
 W: www.fehilytimoney.ie

Fingleton White & Co. Ltd

Value Proposition

Fingleton White & Co. Ltd is involved in many significant projects in the Irish energy sector. This company is a recognised pioneer in Ireland's independent energy sector and has specific interests in power generation and has been generating and selling electricity in the domestic market since 1981. The company was the first to sell Combined Heat and Power (CHP) electricity in Ireland and the first licensee from the Commission for Energy Regulation. Fingleton White & Co. Ltd has a turnover in excess of €10m with up to 25% generated from export markets.

Products & Services

Fingleton White & Co. Ltd designs, constructs and operates a range of infrastructural projects, e.g. a 16,000MW gas station, hydroelectric stations, wind farms, CHP facilities, waste to energy projects, effluent treatment facilities, water oil and gas pipelines, refrigeration systems, boiler houses, district heating and broadband communication networks. Fingleton White & Co. Ltd operate 7 (5MW) Gas Turbine and 10 (1- 3MW) Gas Engine based Combined Heat and Power (CHP) throughout Ireland.

Products

- > Combined Heat & Power
- > Water & Waste Water
- > Wind Farms
- > Effluent Treatment Facilities
- > Boiler Houses
- > District Heating
- > Renewable Energy including Biomass, Biogas, Wind and Hydro

Services

- > Consulting Engineering
- > Energy Supply
- > Feasibility Studies for Energy and Cost Saving Projects
- > Project Management
- > Waste to Energy Projects
- > Engineer, procure and construct projects
- > Build, Own, Operate & Maintain Facilities

Key Customers

Key export markets are the UK and Continental Europe. The company has ongoing relationships with many major multinationals including Dairygold, Diageo, Glanbia, Intel, Kerry Group, Wyeth.

Contact Details

John Fingleton
 Bridge St. Centre, Portlaoise,
 Co. Laois, Ireland.
 E: info@fingleton.ie
 T: +353 57 866 5400
 F: +353 57 866 5444
 W: www.fingleton.ie

FLI Energy

Value Proposition

Part of the FLI Group, FLI Energy offers turn-key ANAEROBIC DIGESTION project delivery with our AD plants digesting a range of organic materials including food waste, industrial and agricultural feedstocks. Its plants and feeding systems are designed to be efficient and flexible, capable of processing a wide variety of different input substrates resulting in high efficiency plants with increased energy outputs. FLI Energy operates from six regional offices throughout the UK, and FLI's Group HQ in Ireland.

Products & Services

- > Turnkey AD Design and Construct Service
- > Civils, Process and M&E
- > Biogas / Power yield calculations
- > Project Feasibility calculations
- > Planning, Permitting & ABP approvals
- > Feedstock Reception & Pre Treatment
- > Feedstock De-Packaging
- > Feedstock Mix Analysis
- > Process Analysis
- > Remote Plant Monitoring
- > Digestate Solids Separators
- > Digestate De-Watering
- > CHP & Grid Connection
- > Odour Abatement
- > Process Maintenance

Processes Include

HOST AD technology
GWEE AD technology
BAL Dry Digestion

Key Customers

Local Authorities, Waste Producers/
Processors, Industrial Clients

Standards & Certifications

ISO 9001 & ISO 14001 Standards

Contact Details Ireland

Micheál Geary,
Business Development Director
Six Crossroads Business Park,
Carriganord, Waterford.
E: mgeary@fligroupco.com
T: +353 51 353 190
F: +353 51 353 177
W: www.fligroupco.com

Contact Details Overseas

Declan McGrath, Managing Director
FLI Water And Energy Ltd
Unit 2, Business Centre East
Avenue One, Letchworth,
Hertfordshire SG6 2HB
E: declan.mcgrath@fligroupco.com
T: +44 1462 485 005
F: +44 1462 485 003
W: www.fligroupco.com

Value Proposition

FMC-Tech has developed a low cost, technically advanced and extensively patented technology to monitor electricity distribution and transmission networks. The technology increases the capacity of transmission circuits, and delivers the real-time information required to enable the 'smart grid' scheme. FMC-Tech's technology reaches within the network and provides a low cost platform for rapid fault location, alternative feeding schemes, distributed generation - and in conjunction with smart meters and relays, is effectively the nervous system for 'smart grid'.

Products & Services

The Power-Line Monitoring System consists of line mounted sensors that communicate by radio to a locally mounted controller. This controller forwards the information collected by the sensors, into a web application or SCADA System. The sensors are powered by the magnetic field of the line, and the local controller is solar powered (both with Power back-up). The system delivers the following time synchronised data :

- > Line Current
- > Line Temperature
- > Weather data (Air temperature, solar gain, humidity, precipitation, wind speed/direction)

The information from the deployed nodes is delivered to a central server and presented for processing by various software applications.

These applications can program the system to receive data at user configurable intervals, can randomly poll for data, or will receive data automatically when events occur. FMC-Tech has already developed two such software applications.

- > X-NET Application (Fault location in distribution Networks)
- > T-NET Application (Dynamic Line Rating to increase transmission circuit capacity)

Key Customers

Electrical Utilities, Distribution Network Operators (DNOs) and Transmission System Operators (TSOs).

Contact Details Ireland

Mike McCormack
 3B2, Western Business Park,
 Shannon, Co. Clare, Ireland
 E: mike.mccormack@fmc-tech.com
 T: +353 61 475 765
 W: www.fmc-tech.com

Contact Details Overseas

Ulf Ahlden
 194 54 Upplands Väsby,
 Bogårdsvägen 8, Sweden
 W: ulf.ahlden@fmc-tech.com
 T: +46 708 965 721
 W: www.fmc-tech.com

Glen Dimplex

Value Proposition

Founded in 1973, with an annual turnover of €1.5 billion, Glen Dimplex is now the world's largest electrical heating business and holds significant market positions in the domestic appliance industry worldwide. In recent years the company has built a significant business in the area of renewable heating products and today occupies a leadership position in the heat pump sector in Europe. Glen Dimplex continues to innovate in the energy efficient and renewable products sector, with the development of total heating systems, through its next generation of heat pumps, and expansion into solar thermal, heat recovery and ventilation, smart controls and wood pellet heating systems.

Products & Services

Design and manufacture of state of the art renewable heating products and solutions to the highest, international specifications
Heat Pumps
Solar thermal Solutions
Heat Recovery & Ventilation

Key Customers

Glen Dimplex sells its renewable heating solutions globally through a network of installers to clients in the private and public sector through OEM channels.

Standards & Certifications

- > DIN EN ISO 9001
- > DIN EN ISO 14001

Languages Spoken

All European languages, Chinese and Japanese

Contact Details

Mr Shane Bissett
Barn Road Dunleer Co. Louth, Ireland
E: shane.bissett@glendimplex.com
T: +353 41 980 0300
W: www.glendimplex.com

Green Diamond Technologies Ltd

Value Proposition

Green Diamond provides monitoring services which facilitate the efficient collection of recyclable waste materials by remotely determining the fill levels of collection bins and waste material repositories. The company's system alerts waste collectors via email, text message and the internet as to the fill level of remote sites. This data can then be used to ensure greater collection efficiency, profitability and a reduction in greenhouse gases.

Products & Services

EMERALD Bin Monitoring System
Remote Access and Control
Remote Appliances Switches
Remote Equipment Monitoring
Asset Tracking

Key Customers

Local Authorities, Waste Collection Companies, Bin Manufacturers, Bin Suppliers, Electrical Contractors, Facilities Management Companies

Contact Details

Gosia Biegaj
Unit B7 Metropoint Business Park, Kettles Lane, Swords, Co. Dublin, Ireland
E: Gosia@green-diamond-technologies.com
T: +353 1 890 2633
W: www.green-diamond-technologies.com

Greenstreets Environmental Resources Ltd

Value Proposition

Since 2000, Greenstreets has provided a unique mix of consultancy, software and training, to companies obligated under various environmental waste regulations. Greenstreets' consultants have many years of industry experience at a senior level, enabling the company to provide cost effective, impartial and expert advice to a range of organisations, regardless of size, or industry sector. With Environmental legislation continuously changing, it makes sense to utilise specialist companies like Greenstreets to keep abreast of environmental legislation.

Products & Services

Greenstreets provides a range of consultancy services and software products that enable companies to comply with waste management legislation and compliance schemes such as Packaging, Waste Electrical and Electronic Equipment (WEEE), Restriction of Hazardous Substances (RoHS), End-of-Life Vehicle (ELV) and Waste Tyre. Several years ago the company developed its own software tool – GRIPSTM, which links to clients accounting systems to produce compliance reports.

More recently, Greenstreets also established an Energy & Carbon Management division to help organisations manage energy costs and reduce carbon outputs. In addition, the company's Waste Optimisation team can provide specialist advice on the most effective methods of managing and recycling waste.

Key Customers

An Post (Irish Postal Service), Aldi Stores (Ireland) Ltd, Beamish & Crawford Ireland, Cadbury Ireland Ltd, Compass Group/Eurest, EWL Electric, GlaxoSmithKline, Heineken, Heinz, Henry Ford & Son Ltd (Ireland), Smurfit Kappa, Sony, Toyota Ireland, Waterford Crystal.

Standards & Certifications

IS.EN.ISO ISO 9001/2000

Contact Details Ireland

Michael O'Byrne
1 Francis Street, Dundalk, Co Louth, Ireland
E: michael.obyrne@greenstreets.ie
T: +353 42 935 6470
W: www.greenstreets.ie

Contact Details Overseas

David Darcy
Unit 51, 1 Halford Street, Castlemaine
Enterprise Centre, Castlemaine 3450,
Victoria, Australia
E: david.darcy@greenstreets.ie
T: +61 354 705 993
W: www.gser.com.au

HDS Energy Ltd

Value Proposition

HDS Energy Limited specialises in the engineering of turnkey energy projects to international standards (ISO 9001 accreditation). The company provides energy solutions specifically tailored to the customers' i.e. individual requirements. HDS Energy Group is recognised as a leading European designer and manufacturer of industrial boiler plant and ancillary equipment. Over the past 28 years the company has delivered projects for the exploitation of energy from wood, bark, rubber tyres, household refuse, straw and other difficult alternative combustibles as well as the conventional gas, oil and coal fuels.

Products & Services

- > HDS Energy Limited provides total support and solutions to their customers, summarised as follows:
 - > Turn-key energy provider
 - > Engineering design-product design to suit customer requirements
 - > Process and instrumentation diagrams, general arrangement design of plant and detailing of plant interfaces
 - > Manufacturing-In house design and build
 - > Pressure vessels, Water treatment plant, steam and hot water generation plant and associated equipment and controls
 - > Installation - Full installation and commissioning team
 - > Service - Maintenance team for the service and support of installed facilities.

Key Customers

- > Fruit of the Loom (Process steam and heat from coal, Textile Industry)
- > Centocor (process steam and heat from natural gas and bio-diesel, Pharmaceutical Industry)
- > Recybois SA (Electricity generation from construction and demolition waste wood)
- > ESB Shannonbridge Power Station (Flue gas Ductwork and chimney liners)
- > Wyeth Medica, Pfizer, Schering Plough, (Clean Steam generation, Process steam, Pharmaceutical industry)
- > INTEL (HVAC hot water boiler systems)
- > Henkel (process steam and electricity generation from combustion of waste chemicals)
- > Irish Refining Company (Combined cycle steam and electricity generation from heavy oil and waste gas)
- > Drogheda Hospital (Feed water treatment and steam generation for hospital utilities and sterilisation units)
- > Nortenha (Electricity generation system from the combustion of tyres)
- > In recent years the company has completed energy projects in Portugal, Denmark, Belgium, Morocco and the UK.

Contact Details

Alan Fox, Managing Director
 Jason McCarthy, Finance
 Blackwater View, Kells Business Park,
 Kells, Co Meath, Ireland
 E: alan.fox@hds-energy.com
 E: jason.mccarthy@hds-energy.com
 T: +353 46 929 3976
 W: www.hds-energy.com

Heatricity

Value Proposition

Heatricity supplies renewable heating solutions to organisations, public and private, across Ireland and the UK. By coupling Air Source Heat Pumps (ASHPs), smart controls and interactive displays, with renewable electricity Heatricity can both reduce heating costs and CO₂ emissions dramatically, compared to existing and new systems, be they oil, gas or electric heating. The company offers a complete package from design to operation & maintenance. Heatricity's interactive displays are a unique added value.

Products & Services

The use of ASHPs and smart controls result in optimum efficiency and performance. Heatricity supplies its systems through two models. First is System Supply & Install (SSI). This method results in the client paying for the system up-front and only paying the running costs in the form of electricity bills after installation. The second model is to supply and install the system and then the client only pays a bi-monthly bill for the system. This removes the need for a client to invest capital upfront. The client will also pay the running costs in the form of electricity bills.

Key Customers

Schools, Hospitals, Police Stations, Universities, Government and other Public Buildings, Commercial Buildings.

Standards & Certifications

CE mark, approved. All installations to current Irish and UK regulations

Contact Details Ireland

Donal Keane
48, Eastlink Business Park,
Ballysimon Road, Limerick
E: donal.keane@heatricity.ie
T: +353 61 409 016
W: www.heatricity.co.uk

Contact Details Overseas

Paul Hillier
E: paul.hillier@heatricity.co.uk
W: www.heatricity.co.uk

Heatsolve Ltd

Founded in 2004 Heatsolve have become established as one of the world's leading manufacturer of Flexible Radiant Heating Products. The company has manufacturing sites in Ireland and South Africa and has a strategic partnership in Asia.

Heatsolve has a strong innovation program focusing on the design and development of energy efficient heating and warming systems.

Value Proposition

Heatsolve is Ireland's only manufacturer of Electric Radiant Floor Heating Systems. Heatsolve differentiates from its competition by being one of the few companies in this industry that designs and manufactures products in their entirety. Most players in this industry have one technology that is adapted to all flooring types. Heatsolve have designed each product so that it provides the maximum energy efficiency, is easy to install and is supported by unsurpassed customer service and technical support.

Heatsolve products are among the most efficient heating systems available.

Products & Services

- > Radiant Floor Heating Systems for use under carpet, laminate and ceramic tile floors.
- > Portable radiant heating appliances heated mats, foot warmers, under area rug heaters, heated towel rails and mirror demisters

- > Flexible heating elements for use in electric blankets, heat pads and various appliances.
- > Respiratory care heating systems.

Key Customers

Glen Dimplex Group
Warmup Plc
Microlife Corporation
Beurer GmbH,
Warmly Yours Inc.
Stevens Omni Inc.

Standards & Certifications

ISO 9001
Underwriters Laboratories – UL 758
IEC EN 60335-2-17, 60335-2-96 and
60335-2-106
All products are tested and certified to EN standards

Contact Details Ireland

Brian Hopkins
Heatsolve Ltd, Bunree Industrial Estate,
Ballina, Co. Mayo, Ireland
E: brian@heatsolve.com
T: +353 96 20001
W: www.heatsolve.com
www.warmup.co.za

Contact Details Overseas

Brian Hopkins
345 Park Ave, 17th Floor, New York,
NY 10154, USA
E: brian@heatsolve.com
T: +353 897 787 0068
W: www.heatsolve.com

Hempire Building Materials Ltd

Value Proposition

Hempire Building Materials offers partners rapid entry and immediate access to developing building materials markets. Mandatory Carbon Reduction Commitments are causing a shift away from high embodied energy and carbon positive building materials to carbon negative or sequestering materials. These materials offer superior interior environment qualities and reduced energy and maintenance costs throughout building cycles. Suitable partners include building material companies, agricultural entities/cooperatives, biomass growers and eco-material merchants. The coming years will see a major shift away from current building materials. Consumer comfort/choice coupled with statutory carbon linked regulations is shifting the balance of choice towards sustainable and comfortable building materials. Early movers will have a distinct advantage in organising agricultural supply chains and production systems. Hempire is a world leader in developing integrated systems for licensees in this market and can cover all aspects from agronomy and production, marketing and building systems.

Products & Services

Hempire offers commercial licenses in national territories with bioregional sublicensing potential. Licensees are assisted in creating a complete Building materials supply business including location, materials procurement, formulations, production, technical data sheets, marketing templates, case studies and any assistance and experiences necessary to establish presence in the market.

Products

Ultralight wall fill for timber frame systems
Lightweight Blocks and bricks
Hempire Limecrete
Scratch Coat Plaster,
Skim Plaster
External render.
Carbon sequestration

Services

Hemp agronomic supply chain development
Whole hemp processing systems
for building materials
Scalable production systems design

Key Customers

Clarke Group, Canamo Canada, Instant
Equity West Australia, Cloughjordan
Ecovillage, Prince of Wales, National Trust

Standards & Certifications

Products currently undergoing testing and certification to ETA European Technical Approval

Contact Details

Marcus Mc Cabe
Burdautien, Clones, Co. Monaghan, Ireland
E: marcusmccabe@hempirebuilding.net
T: +353 47 52049
W: www.hempirebuilding.net

Hosca Lean & Green

Value Proposition

Hosca Lean and Green is a new company with a new offering in the area of Energy Effectiveness. The business purpose is 'to research new products and services in the energy and environmental areas to bring about business improvement.' The company's offering is based upon practical research done in Ireland and the development of new methodologies that blend Lean, Six Sigma and Environmental Engineering techniques. By clarifying the opportunity for reducing costs in a process, it is much easier to identify products that will sustain the improved process over longer periods of time. Hosca Lean and Green has identified a range of energy products that will reduce costs and CO₂ emissions.

Products & Services

The Service aspect of the business relates to the provision of Energy Assessments and Audits that will determine the opportunities for improvement. The output from this will be an improvement plan that will address the functional areas and/or pieces of plant that will help to reduce costs and increase the value add of the business. To sustain the improvements gained, clients can be advised on the use of ISO 14000 and IS 393 and provide training in both standards.

The Products have been acquired through partnership arrangements and include; lighting systems and controls, small wind turbines, biomass boilers, heat exchange boilers, variable speed drive motors, AC refrigeration, energy monitoring and building management systems.

Key Customers

Manufacturing companies
Health Service providers in the Voluntary and Private sectors
Educational facilities

Standards & Certifications

Hosca Lean and Green staff have auditors trained in ISO 9000, 14000 and IS 393. It is envisaged to embrace these standards in 2010.

Contact Details

Gerry Shaw
Broomfield Business Park,
Malahide, Co. Dublin, Ireland
E: Gerryshaw@hosca.ie
T: +353 1 846 4151
W: www.hosca.ie

Houston Precision Engineering

Value Proposition

Since Houston Precision Engineering was formed in 1980 innovation has been put to the forefront in the company's strategy for growth.

Houston Precision Engineering is currently developing a wave energy convertor (WEC) in conjunction with the Hydro Marine Research Centre (HMRC) in Cork which is supported by Sustainable Energy Authority Ireland (SEAI).

Products & Services

- > Precision Engineering capacity – Turning dia. 2000, Milling 2000 x 1000 x 750.
- > Stainless Steel Fabrication
- > Manufacture Waste Water Treatment Equipment

Key Customers

- > Multi National Water Treatment Companies
- > Large Scale Civil Engineering Contractors
- > Local Authorities
- > Waste oil and grease removal for catering and industrial applications

Contact Details

Martin Houston
IDA Industrial Estate, Lisnenan,
Letterkenney, Co. Donegal, Ireland.
E: houstoneng@eircom.net
T: +353 74 912 4261
W: www.houston-eng.com
(Under Construction)

Hybrid Energy Solutions Ltd

Value Proposition

Hybrid Energy Solutions Ltd manufactures and distributes off-grid Hybrid generator systems for the global telecommunications industry.

A Hybrid generator is similar to a hybrid vehicle in that it combines engine and battery technology. The hybrid generator however enables the easy addition of wind and / or solar energy to supplement or even replace the engine power.

For a typical telecommunications base station the Hybrid generator will reduce fuel consumption by 80% and reduce CO₂ emissions by 60 tonnes per annum without any wind or solar contribution and can operate entirely on bio-diesel.

Products & Services

- > Off-grid Hybrid Power Stations for Telecommunications, Oil & Gas, Military & Residential Customers
- > Uninterruptable Power Supplies (UPS Systems)
- > Solar & Wind Power Plants
- > DC Generators
- > Inverters & Battery Systems
- > Self Powered Telecommunications Towers

Key Customers

Telecommunications Operators (O2, Telefonica, Meteor, Vodafone, BT), Tetra, Rural Broadband

Standards & Certifications

ISO 8528, ISO 3046, IEC 60034, BS5000 and NEMA MG-1/22.

Contact Details Ireland

Nick McGrath
Unit 10B Barrowside Business Park, Sleaty Road, Graiguecullen, Carlow
E: nick@hybrid.ie
T: +353 86 600 5050
W: www.hybrid.ie

Contact Details Overseas

Spain & Africa
Psje. Esllaguissada 27, 08860
Les Botigues de Sitges, Barcelona, Spain
Peter Den Boogert
E: peter.den.boogert@rental-energy.com
T: +34 93 116 5556
F: +34 93 645 8084
M: +34 617 129 592

John Sisk & Son Ltd

Value Proposition

John Sisk & Son Ltd has been main contractors for over 150 years and has over 50 years experience in the Energy sector. Until recently these projects were predominantly conventional power stations. However, with the ever increasing diversity of projects in this area Sisk has now acquired experience in areas such as windfarms, waste to energy facilities, biomass boilers and grid infrastructure. Sisk has also worked across most other construction sectors for many years. Clients benefit from this knowledge and capability together with the experience gained on a diverse range of current energy projects thus ensuring a project is delivered with industry-leading results. Sisk operates throughout Ireland, the UK, Europe and the Middle East.

Products & Services

Biomass:

Sisk has established a joint venture company with CES Energy to provide embedded energy solutions in the form of biomass thermal, electric and cooling energy. Sisk can offer clients a full design, build, finance and operate solution to their energy needs.

Sustainability:

Sisk offers practical solutions to sustainability and energy efficiency issues and requirements. This knowledge based, multi-disciplined, centre of excellence team builds relationships with interest groups and market drivers and support the project teams delivering projects for Sisk's clients.

Renewables (Wind, Hydro, Wave):

Through Sisk's Civil Engineering Division, the company was part of a team that delivered a 36 MW windfarm at Lisheen, Ireland and are engaged in a project to construct a windfarm to deliver up to 85 MW in North Cork, Ireland. Sisk is capable of offering a client a full civil works and balance of plant service for windfarms.

Waste to Energy and Conventional Power:

Sisk has the proven capacity to deliver large scale projects in any sector and is currently executing all the civil and building work associated with two 450MW CCGT power stations in Co Cork, Ireland and a large waste to energy facility in Co Meath, Ireland. Sisk is also constructing a 2000MW CCGT power station in Pembroke, Wales.

Contact Details Ireland

Ger Dennehy
Wilton Works, Naas Road,
Clondalkin, Dublin 22
E: g.dennehy@sisk.ie
T: +353 1 409 1500
W: www.sisk.ie

Contact Details Overseas

Paudi O'Se
Wilton Works, Naas Road,
Clondalkin, Dublin 22
E: paudi.ose@sisk.ie
T: +353 1 409 1500
W: www.sisk.ie

Kingspan Century Ltd

Value Proposition

Part of the Kingspan Group PLC, Kingspan Century is the largest timber frame manufacturing company in Europe, supplying both domestic home and commercial markets. Since its establishment in 1990 the company has constantly invested in extensive research and development. In 2007 it unveiled the Lighthouse, the first zero carbon house in Ireland and the UK. This research has changed the way many new homes are built and significantly reduced the impact on the environment. Kingspan Century is a founder member of the Irish Timber Frame Manufacturers Association, which was set up to ensure that the highest standards are maintained throughout the industry.

Products & Services

- > Design & Engineering of timber & steel off-site solutions encompassing Structure, Thermal performance,
- > Fire Engineering, Acoustics, External Fabric, Renewable Energy Integration
- > Choice of Timber Frame, SIP & Light Gauge Steel off-site structural systems for Buildings of all purpose
- > Groups up to 10 storeys
- > Superior Energy standards
- > Pre-Insulated & Closed Panel assemblies
- > Renewable Energy systems

Key Customers

LM Developments, Ellier Developments, Merville Homes, McInerney Homes.

Standards & Certifications

ISO9001; ISO14001; OHSAS18001; 'Excellence Through People Award'

Contact Details

Gary Prunty, Quality/Environmental Manager
 Clones, Monaghan, Co Monaghan, Ireland
 E: gprunty@century.ie
 T: +353 47 81 270
 F: +353 47 30 081
 W: www.century.ie

Overseas Markets: Gary Treanor

Kingspan Insulation Ltd

Value Proposition

Kingspan Insulation manufactures premium performance insulation products including Kingspan Kooltherm, a next generation rigid insulation board with unrivalled thermal performance.

The Kingspan Insulation range of products provide insulation solutions for both refurbishment and new build in domestic and commercial applications.

Products & Services

- > Rigid phenolic insulation
- > Rigid PIR insulation
- > Breathable membrane

Key Customers

Architects, specifiers, contractors, builders merchants, self builders.

Standards & Certifications

ISO certification EN ISO 9001: 2000

Contact Details

Samantha Rushe
Bree Industrial Estate, Castleblayney,
Co Monaghan, Ireland
E: samantha.rushe@insulation.kingspan.com
T: +353 42 979 5000
W: www.insulation.kingspan.com

Liberator.Aero

Value Proposition

Liberator.Aero is a web-based solutions provider in the field of airline fuel conservation, operational data management and compliance audits for airline and ground handling companies. Liberator.Aero systems are unique in that they offer a web-based globally distributed system which maximises aircraft fuel efficiency ensuring fuel costs are significantly reduced for airline companies.

Products & Services

Liberator Fuel Index (LFI) System:

Continuous measurement of operational performance related to fuel burn & gas emissions; Micromanages load planning and produces web based graphical reports on fuel savings

AHM560.com Content Management System:

Globally distributes aircraft weight and balance data; Highly secure with compliance audit trail; Departure Control Systems checked for regulatory compliance every 6 months for airline and 3rd party ground handling companies

Key Customers

Airline and Ground Handling Companies

Languages Spoken

English, French and Italian

Contact Details

Mr Tony McDermott
Estuary House, Swords Business Park,
Swords, Co. Dublin, Ireland
E: tony.mcdermott@liberator.aero
T: +353 1 813 5570
F: +353 1 813 5571
W: www.liberator.aero

UK

Mr Gerard Berry
E: gerard.berry@liberator.aero

Longship

Value Proposition

Longship works with commercial energy users who are dissatisfied with their energy costs and current energy efficiencies.

Longship's process is an outsourced business process called EPO (Energy Process Outsourcing).

Unlike consultants who simply recommend or those offering merely information systems, Longship provides a long term partnership working with a management team in a client company to implement a permanent process. This continuously reduces costs and increases energy efficiency in the client company.

Products & Services

Longship's process, EPO (Energy Process Outsourcing) is built on a business intelligence platform that gives a unique insight into a company's energy efficiencies.

With this process Longship guarantees a return on investment. Longship does this by lowering a customer's energy costs through actively managing energy procurement, working with a client company on optimizing energy usage and bringing client into compliance.

Key Customers

Commercial energy users - those who spend more than €250,000 p.a. on energy.

Standards & Certifications

Small but award winning team consists of scientists, energy engineers and an accountant.

Contact Details Ireland

Conor Buckley
Rubicon Centre, CIT Campus,
Bishopstown, Co. Cork
E: conor.buckley@longship.com
T: +353 21 242 9761
W: www.longship.com

Contact Details Overseas

Bill Klaus
Waterfront Technology Centre, 200 Federal
Street, Suite 244, Camden, NJ 08103
E: bill.klaus@longship.com
T: +1 866 441 3282
W: www.longship.com

Lotusworks

Value Proposition

Founded in 2008 Lotus Energy Limited specialises in the development of renewable energy assets in Ireland & North America. Lotus is a full service developer of wind, geothermal, solar and biomass energy projects. The company's development activities are the evolution of energy related Construction Management and Operation Maintenance which since 2006 has participated in projects that have added over 2000 MW's of power to the Irish grid.

Products & Services

Lotus Energy is a commercial energy development company focused on the development, acquisition and management of large-scale power generation assets.

- > Geothermal, wind, solar, biomass and heating systems
- > Hydro Energy
- > Heat Pumps
- > Wind Turbine Control & Installation Systems
- > Evacuative Tube Solar Water Heaters
- > Digestion and gasification plants
- > Bio-fuels
- > Energy Consultancy
- > Wind Farms
- > Consulting Engineering
- > Energy Supply
- > Feasibility Studies for Energy and Cost Saving Projects
- > Project Management
- > Waste to Energy Projects
- > Engineer, Procure & Construct Projects

- > Build, Own, Operate & Maintain Facilities
- > Continuous measurement of operational performance related to power generation assets

Key Customers

LotusWorks is active in multiple International market sectors including Pharmaceutical, Food & Beverage, Hi-Tech, Clean-Tech & Commercial Enterprises.

Standards & Certifications

Full ISO Certification, EN ISO 9001:2000, EN ISO 14001, OHSAS 18001
 'Excellence Through People'
 Engineers Ireland Corporate Affiliate
 American Wind Energy Association
 Irish Wind Energy Association
 Marine Renewable Industries Association-Council

Contact Details Ireland

Tom Cafferkey
 LotusWorks, Marino House,
 Finisklin Business Park, Sligo,
 E: tcafferkey@lotusworks.com
 T: +353 71 916 9783
 W: www.lotusworks.com

Contact Details Overseas

Steve Ostrowski
 LotusWorks, 9611 NE 117th Ave, Suite 2840,
 Vancouver, WA, USA 98662, Canada
 E: sostrowski@lotusworks.com
 T: 001-360-737-9692
 W: www.lotusworks.com

Mulberry Stoves

Value Proposition

Mulberry Stoves are designed, assembled and enamelled in Ireland by people who have been making stoves for generations. Mulberry products are third party certified to very high levels of efficiency with low emissions. Mulberry has state of the art R & D facilities where high quality cast iron heating and cooking products are fine tuned to maximise fuel economy and minimise emissions.

Products & Services

Mulberry cast iron wood burning & multi-fuel cookers; free standing and insert stoves. Products are available with or without boilers that provide domestic hot water or full central heating.

Key Customers

Topline; HomeValue; Dairygold; Telfords; Timber & Tile (NI); Taymin (UK); Rudolph Quester (Ost)

Standards & Certifications

ISO 9001: 2000; ISO 14001; DIN EN 13240; EN 13229; HETAS; CE approvals

Contact Details

Nichola Hughes
Mulberry Stoves, Carrick Business Park,
Waterford Road, Carrick on Suir,
Co. Tipperary, Ireland
E: nichola@mulberrystoves.com
T: +353 51 649771
W: www.mulberrystoves.com

The National Micro Electronics Centre (MAC) Ltd

Value Proposition

MAC is an innovative design and development company. Target markets include Power Utilities and Environment. MAC has recently developed a 'SmartGrid' ICT support platform (GridWatch) that 'web-enabled' the electricity distribution networks using innovative sensors and wireless communications to improve the efficiency, reliability and safety of the electricity distribution network. Value add: Innovative, low cost and low power solutions.

MAC has also developed a family of low-cost, low-power, real-time water quality monitoring solutions under the brand name WaterWatch, for water quality and pollution monitoring.

Products & Services

GridWatch Products: 'Real-time' Earth Fault monitors for monitoring Low and High impedance Earth Faults on the electricity distribution network, with trip current detection 1A to 100A.

Mains and Battery powered real-time 3-phase Load Current Monitors, from 100A to 1000A.

WaterWatch product solutions include mains, Solar and Battery powered units that monitor up to 4 sensors. Products support both Zigbee wireless for local mesh networking and GPRS communications for back haul to a remote server for alerts and reporting. Sensors interfaces: 4-20mA, 0 – 5V and 0 – 10V.

Design Services: Low cost, low power Wireless Network Solutions

Key Customers

EU Commission – Research Projects
Tyco Electronics, Molex and Local Authorities in Ireland

Contact Details

Connor O'Reilly
Lonsdale Road, National Technology Park,
Limerick, Ireland
E: c.oreilly@mac.ie
T: +353 61 334 699
W: www.mac.ie

Nualight Ltd

Value Proposition

Nualight is actively changing how food retailers promote their products in merchandising displays by creating brighter more visual displays and reducing their energy costs up to 60%. Nualight is the only LED Lighting company in the world that focuses exclusively in designing light fixtures for food retailers. The company tailors each product to individual retailer needs depending on case type, store format, energy usage and merchandising requirements to maximise the product appeal to consumers.

Products & Services

LED Lighting Fixtures for Food Retail

Business Model

1. Retrofit (supply directly to retailers to retrofit into existing stores onsite)
2. OEM (supply directly to display case manufacturers so products can be factory fitted into new cases)
3. Private Label (supply industry colleagues with product for own brand opportunities)

Key Customers

Top 100 Food Retailers globally
(incl. Tesco, M&S, Walmart, Co-Op & Migros (Switzerland), Aldi (US) Tengelmann & Edeka (Germany))

Top 25 OEM Manufacturers globally
(incl. EPTA, Carrier, Linde, Arneg, Remis, Schott, Kysor Warren, Hill Phoenix, Carter)

Standards & Certifications

All products are 92% recyclable; UL & CE certified

Contact Details: EMEA HQ

Chris Russell, European Sales Director
E: crussell@nualight.com
T: +353 87 683 8295
W: www.nualight.com

Contact Details: North America HQ

Bruce Schneider, Sales Director USA
E: bschneider@nualight.com
T: +1 704 840 8398
W: www.nualight.com

OpenCarb LP

Value Proposition

OpenCarb provides an outsourced service for organisations generating carbon credits from their emission reduction projects, to create/originate, retail, track and trace carbon credits globally. The company was established by the founder of Openet, a world leader in transactional intelligence for the telecom industry, which handles billions of transactions daily. The company offers its corporate clients the tools to deploy embedded carbon credits, enabling companies offer consumer product & service propositions that are carbon free, from mobile phones, banking services and flights to chocolate bars, laptops and personal car usage.

OpenCarb has secured carbon credit rights from multiple sources, including rainforests, peat-lands, CDM, and renewable energy projects, that support energy community initiatives in developing countries. The company partners with landowner groups and renewable energy companies including solar, wind, biogas, waste-to-energy and other providers to monetize the carbon rights and realize the maximum value of these valuable assets in partnership with its suppliers.

Products & Services

OpenCarb provides assessment, technical design processes, implements verification and track and trace services, processes and secures the carbon registration while managing the security of the trades of carbon credits across the full value chain.

OpenCarb is working in partnership with the world's largest carbons project originators and

carbon credit traders to assure the deployment of carbon credits. It has an emphasis on projects that have strong community impact, insuring that maximum funds are transferred to the communities that most need them in a fully accountable way. OpenCarb provides a franchise platform for resellers of carbon to access, assure and deploy carbon solutions for specific markets including the CarbonAssure™ track and trace platform.

Key Customers

Clients include commercial and NGO clients such as Call4care, a global mobile phone services developed in partnership with the Red Cross, Amnesty International and other charities.

Standards & Certifications

OpenCarb supports all carbon standards and exchanges globally including CDM, REDD and Voluntary standards

Contact Details Ireland

Declan Conway
 Alexandra House,
 The Sweepstakes, Ballsbridge, Co Dublin
 E: declan.conway@opencarb.com
 T: +353 (1) 4433396
 W: www.opencarb.com

Contact Details Overseas

Ciaran O'Sullivan
 85 Kings Ferry Road,
 Montrose, New York 10548, USA
 E: ciarar.osullivan@opencarb.com
 T: : +1 315 642 4404
 W: www.opencarb.com

PM Group

Value Proposition

Since 1973 PM has delivered world-class planning, engineering and environmental services. Today PM, with over 1,600 personnel in worldwide offices, delivers a comprehensive portfolio of services to a wide range of public and private sector clients.

Recent projects have included industrial strengthening in Eastern Europe, national sustainability and biosystems projects, master planning of major infrastructural projects, waste management, wastewater engineering and energy systems design and delivery.

Products & Services

PM is involved in a wide range of projects from small consultancy studies to large-scale, complex, fast-track capital projects. PM's Environmental division offers a comprehensive range of sustainability services to both public and private sector clients in areas such as: Management Systems, EIA, Permitting, Auditing, Risk Assessment, Air Quality, Contaminated Land, Energy Efficiency, Carbon Management and Environmental Engineering (Wastewater and Air). In addition PM's international consulting division has delivered institutional strengthening and industry training on the EU Environment Acquis including: IPPC, Seveso, EIA and Natura 2000.

Key Customers

EBRD, Shell, Johnson & Johnson, Scottish & Southern Energy, Wyeth, Diageo, GlaxoSmithKline

Standards & Certifications

ISO9000 & ISO14001

Contact Details

Niall O'Loughlin
Killakee Hse, Belgard Sq,
Tallaght, Dublin 24, Ireland
E: niall.oloughlin@pmg.ie
T: +353 1 404 0700
W: www.pmg.ie

Premium Power Ltd

Value Proposition

To provide a combination of energy monitoring and automatic demand control together with expert knowledge to help customers reduce their costs by managing all aspects of energy usage, reliability and equipment uptime.

Products & Services

Energy Management

Management and control of all energy usage (water, air, gas, electricity, steam etc.) using enterprise or facility wide custom designed energy management systems. Premium Power systems can provide maximum demand and load control to reduce energy costs at times of high utility charge.

Electrical Network Monitoring And Simulation

Development of computer models of mission critical electrical networks and simulation of possible fault conditions in order to reduce the risk of costly system failure.

Power Quality Monitoring & Solutions

- > Monitoring of electrical power quality, reliability and outage risk for large energy enterprise.
- > Harmonic studies, solutions design and specifications.
- > Design, project manage and implement mission critical power solutions for large industrial and utility customers.

Key Customers

- > Industrial Plants
- > Oil and Gas Industry
- > Water Industry
- > Electrical and Renewable Energy Utilities

Standards & Certifications

- > IS393
- > CE marked
- > SEAI ACA approved
- > UK Carbon Trust ECA scheme

Contact Details

Hugh O'Kelly

Unit 1 BEaT Centre, Stephenstown Industrial Park, Balbriggan, Co. Dublin, Ireland

E: hokelly@premiumpower.ie

T: +353 1 810 5032

W: www.premiumpower.ie

ResourceKraft Ltd

Value Proposition

Turning data into knowledge and energy savings/efficiencies. ResourceKraft develops energy Cost Control systems that enable business and state agencies to measure and continuously manage their energy use. A combination of technology and methodology that effects from 10% to greater than 50% reduction in both Carbon emissions and cash with an investment return measured in months.

Products & Services

ResourceKraft is a global leader in providing web hosted, easy-to-use, effective energy cost control management solutions to businesses, institutions and government agencies. Provides detailed audit, billing and reconciliation information, linked to businesses key performance indicators, that encourages behavioural change through informed decision making.

ResourceKraft Advisor: Software as service management and decision support systems, that provides real-world business processes for analysing & understanding energy use, directing energy management action and validating savings utilising KPI's.

ResourceKraft Fuel Lode is a suite of solutions that permits organisations to manage distributed fuel storage depots and tankers, protects against theft and environmentally destructive leaks.

Key Customers

- > Government, Universities, Third Level institutions, Supermarkets, Fast Food outlets, Industry (Ingersoll Rand, Michelin etc.)

Standards & Certifications

- > ResourceKraft Advisor is approved by the UK's Carbon Trust for the Enhanced Capital Allowance (ECA) Scheme
- > Eligible for Ireland's Accelerated Capital Allowance (ACA) scheme

Contact Details Ireland

Frank Casey
Moylish Park, Limerick, Ireland
E: sales@resourcekraft.com
T: +353 61 490144
W: www.resourcekraft.com

Contact Details Northern Ireland

E: sales_ni@resourcekraft.com
T: +44 7733 04052
W: www.resourcekraft.com

Response Engineering (REL) Ltd

Value Proposition

Response Engineering is a results-oriented organisation with a highly innovative approach to problem solving in the energy management and environmental sectors. In its approach to process optimisation the company implements “state of the art” European and International technology chosen to provide its customers with sustainable and cost-effective solutions.

REL reacts to increasingly stringent environmental regulation by an ongoing worldwide assessment of emerging technologies and applies this knowledge to addressing the challenges which confront the water sectors in Ireland and the UK. The company’s strategic alliances with international partners gives REL access to a wide range of successful process options and facilities management skills.

Products & Service Offering

The Government decision to encourage private sector participation in capital investment and facilities management of public sector water services has been responded to enthusiastically by REL. Industry’s demand for cost-effective and energy-saving effluent and water treatment plant has provided a significant growth opportunity for the company.

REL offers the following services to its customers:

- > Wastewater Treatment Design/Build
- > Water Treatment Design/Build
- > Management of Bio-solids Treatment & Disposal
- > Experience in Public Procurement
- > Long-term Operation & Maintenance of Water Services Facilities
- > Licensed Supply of Leading Brand Water Industry Products

Key Customers

- > County/City Councils Ireland
- > UK Water Companies & Local Councils
- > DOEHLG
- > Magners
- > Glanbia
- > Cantrell & Cochrane
- > Wexford Creameries

Standards & Certification

ISO : 9001, ISO :14001, OSHAS : 18001

Contact Details

Geoff O’Sullivan
 Railway Road, Charleville,
 Co. Cork, Ireland
 E: gosullivan@response-group.ie
 T: +353 63 33400
 W: www.response-group.ie

Selc Ireland Ltd

Value Proposition

Selc is a recognised global centre of excellence for the development and manufacture of sustainable road and street light control technologies. Selc has introduced a means for communicating with the road and street lights utilising the electric cables that power the lights. Now street lighting engineers and electricity supply companies can receive and send data so as to control the street lights and monitor the energy used. The Selc technology controls the lights depending on road, street, people and weather activity utilising the existing power lines to send and receive monitoring and control data. Making use of the power lines reduces electromagnetic radiation and street furniture cluster. Selc has introduced the "Smart Grid" and the "Internet" into road and street lighting for the first time in the history of outdoor lighting.

The Selc road and street light Tele-Management system impressed the EU so much that they established the E. Street Initiative. The E. Street Initiative will develop the legislation and directives necessary to roll out this type of system throughout all the EU member states. In 2009 Selc, partnering with Siemens Elin Ebg of Austria, won the prestigious EU GREENLIGHT AWARD for Intelligently Monitoring and Controlling Street Lights and providing up to 40% in energy and carbon savings in its first year of operation.

Products & Services

- > Photo Electronic Control Units for the dusk to dawn controls of all outdoor lighting.
- > Astro Time that tracks the Sun to control lighting, water etc depending on the position of the Sun in the Sky.
- > Electronic Smart HID Ballasts for powering all SON and Metal Halide Lamps.
- > Combi-Nodes for monitoring and controlling High Intensity Discharge Lighting wherever it is used for lighting.

Key Customers

ESB, Airgrid Kellehers Electrical (Ireland)
Ame, SEC, Railtrack, WRTL, Philips (UK)
SPIE, SLV, Commatelec (France)
Hafslund, Luminext (Norway)
General Electric, Holophane, Siteco (Europe)
NERI, AEC (Italy)

Standards & Certifications

I.S. EN ISO 9001:2000, ETL, CE
EN55015, BS and all EN Standards applicable to lighting controls
IS and Din Standards applicable to lighting controls

Contact Details

Sean Noone
Industrial Estate, Belmullet,
Co. Mayo, Ireland
E: snoone@selc.ie
T: +353 97 81209 / 81200
W: www.selc.ie

SL Controls Ltd

Value Proposition

SL Controls specialises in the networking and development of data logging and optimisation systems for customers from energy sources and general machinery across all types of hardware platforms. The company has extensive industrial experience in building faculties, renewable energy sources, energy logging, manufacture and the pharmaceutical industry.

SL Controls assists customers to implement energy-saving design changes, specific data reports, interfaces and to analyse their data to provide significant savings both from energy usage and manufacturing optimisation

Products & Services

- > Plug And Pivot™ Energy Monitoring
- > Data Logging and Networking
- > Data Analysis and Optimisation

Key Customers

Wyeth Medica Ireland, Abbott Ireland, Intel Ireland, Boston Scientific

Standards & Certifications

ISO 9001:2000

Contact Details

Darragh McMorrow
IDA Industrial Park, Collooney,
Co. Sligo, Ireland
E: darragh.mcmorrow@slcontrols.com
T: +353 71 913 4040
W: www.slcontrols.com

Smarthomes Ltd

Value Proposition

Smarthomes is well recognised as Ireland's market leader in the design, manufacture and selling of approved British Standard Home Cabling Products for the Home Automation, Heating Control, Lighting Control, Communication and Entertainment services that are required in new homes. The company's latest product is a patented Residential Heating Control device that is extremely easy to use and provides a new way to control, monitor and manage the energy needed to heat a home. Smarthomes is also developing a lighting control product based on the same principles. The company's products have been installed in over 10,000 Irish & UK homes. Smarthomes international distributor is MK Electrical who represents the company in overseas markets that use British Electrical standards.

Products & Services

- > Patented range of Home Automation Solutions for the residential market.
- > New: Residential Heating Control Device
- > Complete range of Residential Structured Cabling hubs fully approved by all leading telecommunications companies for distributing incoming TV, telephone broadband services and Multi room iPod distribution
- > These systems include colour coded / multi core cabling, unique sockets and wall plates that are compatible with the Mk and other market leading electrical socket brands.

- > Other products include solutions for home cinema, central audio (incl iPod, MP3) and lighting control.
- > All products are standardised, modular and designed to significantly reduce the skill and time needed for onsite installation.
- > R&D outsource or JV service provided to Electrical Device Manufacturers.

Key Customers

Honeywell, Mk Electrical, Small to Large Residential Construction Companies building 5 to 5000 homes per annum.

Standards & Certifications

All products are CE Certified and approved by world leading brands that provide TV, Telecom, Automation etc.

Contact Details

Derek Roddy
Smarthomes Ltd, Finnabair Industrial Park,
Dundalk, Co Louth, Ireland.
E: droddy@smarthomes.ie
T: +353 42 939 4055
W: www.smarthomes.ie

Contact Details Overseas

Eamon Conway
Smarthomes Ltd, Finnabair Industrial Park,
Dundalk, Co Louth, Ireland.
E: econway@smarthomes.ie
T: +353 42 939 4055
W: www.smarthomes.ie

Surface Power

Value Proposition

Surface Power was founded in 2003 to manufacture innovative renewable energy technologies for buildings. The company is now well established as a leading innovator of solar thermal solutions. Surface Power works with existing distribution supply chains to upskill and support their movement into the emerging sector with training, support, logistics and sales solutions. Surface Power is an ideal full service manufacturer partner who can integrate with large distribution networks.

Products & Services

- > Solar Thermal Heating, Cooling & Hot Water Systems, (Commercial, Industrial, Domestic, Public)
- > Large scale deployment programs (Government agency, Utilities, Communities, etc)
- > Certified training programs for Instructors, Distributors, Installers, etc.

Key Customers

- > Large national builders providers and distribution networks
- > Government and public contracts
- > Greenloan finance and deployment schemes
- > Surface Power is currently expanding its global distribution networks

Standards & Certifications

- > EN12975:2006
- > IEC61400-2
- > CE Marking
- > EN50438

Contact Details Ireland

Caroline McAndrew, Marketing Manager.
Udaras Industrial Park, Tourmakeady,
Co. Mayo, Ireland
E: sales@surfacepower.ie
T: +353 94 954 4776
W: www.surfacepower.ie

Contact Details UK

Sales
E: export@surfacepower.com
T: +44 203 411 5312
W: www.surfacepower.co.uk

Contact Details New Zealand

Sales
PO Box 70172, Tauranga, New Zealand.
E: nz_solar@surfacepower.com
T: +64 075 431 627
W: www.surfacepower.co.nz

Contact Details China

Sales
Tower A, 23/F Center Plaza, T161,
Lin He Xi Lu, Tian He District,
Guangzhou, 510620 China
E: export@surfacepower.com
T: +86 202 885 8513.
W: www.surfacepower.com

Systemlink Ltd

Value Proposition

Established in 2001 Systemlink is engaged in the design, specification and supply of renewable energy saving systems for the heating sector of the construction industry. Systemlink's portfolio includes Geothermal and Air to Water Heatpumps, Solar Panels, Underfloor Heating systems, Condensing Gas boilers and more. It also manufactures a range of patented distribution manifolds that generate energy savings and reduce the complexity associated with traditional methods of installing and configuring zoned heating systems. The company's systems are suitable for installation in new and refurbished domestic dwellings and all commercial and industrial buildings. Systemlink markets its products through merchants, contractors and specifiers.

Products & Services

- > Manufactures distribution manifolds and electrical wiring systems: The Systemlink, Systemzone and Systemlex and Minilex
- > Supplies:
 - Evacuated Tube Solar Panels
 - Heat Pumps
 - Gas Boilers
 - Water Heaters
 - Underfloor heating systems
 - Design service for all Products
 - Building Energy Rating/Energy Auditing
- > Design and supply service available for all systems

Standards and Certifications

- > Approved by Sustainable Energy Authority Ireland (SEAI)
- > Registered Gas Installers of Ireland (RG11)

Contact Details

Shay Moran, CEO
Traolach Ledwidge, Sales Manager
Jackie Roche, General Manager
Unit C2 South City Business Centre, Tallaght,
Dublin 24, Ireland
E: traolach.ledwidge@systemlink.ie
T: +353 1 403 1200
F: +353 1 413 7777
W: www.systemlink.ie

Technology From Ideas (TFI) Ltd

Value Proposition

TFI is a technology development company delivering innovative intellectual property (IP) driven technology solutions to industry. TFI bridges the gap between the lab and the market, creating and delivering valuable investment ready technology. TFI sources, creates, develops and licenses early stage physical sciences & engineering technologies in the areas of CleanTech, materials and medical devices and works collaboratively with industry to understand and solve their problems, and with IP creators such as universities to support their commercialisation activities.

Products & Services

TFI's main recent activity has been the development of a wave energy protection system called the WaveProtector™. This uses passive material technology developed in conjunction with DuPont and makes wave energy devices more economically viable.

In addition the company has developed a torque control system suitable for a wide range of industrial brake and clutch applications, including use on wind turbines. This technology has been prototyped and licensed to customers, with the first product due to be launched in 2010.

Further technologies are also under development.

Key Customers

TFI is working with a number of industrial customers (large multinationals through to SMEs) across many sectors including wave, industrial braking and hydraulics.

Contact Details Ireland

Dan Richardson

Unit 3B Cleaboy Business Park,

Old Kilmeaden Road, Waterford, Ireland

E: dan.richardson@technologyfromideas.com

T: +353 51 374 410

W: www.technologyfromideas.com

Thermohouse Ltd

Value Proposition

Thermohouse ICF Building Systems produces the complete ICF (Insulated Concrete Formwork) "A" Rated package. Including the external walls, internal walls, roof, and floor, under floorboard/screed and rendering systems.

Products & Services

Thermohouse "A" Rated Buildings – The Complete Package.

Thermohouse ICF Systems combine the inherent strength of concrete with the excellent insulation properties of polystyrene to produce cost-effective "A" Rated Buildings Nationwide.

The company's product range includes the following, all of which are produced at the state of the art plant in Killarney.

- > Thermohouse ICF walls
- > Thermohouse ICF floors
- > Thermohouse ICF Roofing System
- > Thermohouse Under floor Heating Boards
- > Thermoscreed Floor Screed
- > Thermohouse Render Systems
- > Thermowall External Wall Insulation Systems.

Key Customers

Self Builders, Architects, Engineers, Builders and Developers.

Standards & Certifications

European Technical Approval (No. ETA-09/0083) together with Irish Agrément Board Certification (080310).

Contact Details

Jack O'Driscoll, Managing Director
Coolcaslagh, Killarney, Co Kerry, Ireland
E: jack@thermohouse.ie
T: +353 64 663 1307
W: www.thermohouse.ie

Tobin Consulting Engineers

Value Proposition

TOBIN was established in 1952 and has grown into one of Ireland's leading environmental consultancies. The company diversified from its specialisation in public health projects to include harbour and marine works, civil, structural and environmental engineering, renewable energy, commercial developments, airports, sports and leisure developments. TOBIN currently employs over 125 staff throughout Ireland. TOBIN opened a Polish branch office in March 2009 now located in Krakow and is currently expanding its new business base in Poland.

All of TOBIN's professionals are constantly upskilling, driven by accredited Continuing Professional Development Programmes. This enables them to bring a high standard of skill, creativity and knowledge to each project entrusted to them. TOBIN Consulting Engineers is committed to the delivery of quality engineering solutions, in a timely and cost-effective manner.

Languages spoken

English, Irish, Polish, Dutch, German, Spanish

Products & Services

Areas of expertise:

Civil Engineering & Infrastructure, Mechanical & Electrical, Structural, Environmental and Water Services Engineering, Roads & Transportation, Waste Management, Hydro – Geotech, Energy Rating, Building Services, Project Management, Quantity Surveying,

Design and Construction Supervision, Preparation of Tender Documents, Planning and Licensing Documentation, Mining & Quarrying.

Key Customers

Local Authorities, Government Departments, Public Bodies, Semi-State Companies, Private Developers, Greenstar, Airtricity, Rilta, Bord na Móna, Coillte

Standards & Certifications

- > ISO 9001:2000, ISO 14001:2004, OHSAS 18001:2007
- > Association of Consulting Engineers of Ireland
- > Engineers Ireland
- > National Irish Safety Organisation
- > CPD Company of the Year 2007
- > Winner of the LAMA Best Engineer 2008
- > Finalist of the Green Awards 2008

Contact Details Ireland

Damien Grehan – Environmental Director
Block 10-4, Blanchardstown Corporate Park,
Dublin 15

E: damien.grehan@tobin.ie

T: +353 1 803 0401

W: www.tobin.ie

Contact Details Overseas

Fred Renkema – Structural Director
Pl. Zwycięstwa 2, 90-312 Łódź, Poland

E: fred.renkema@tobin.ie

T: 0048 42 674 2420

W: www.tobin.pl

Ventac Group

Value Proposition

Ventac designs, manufactures and exports noise control products for industrial vehicles and buses. Ventac helps its customers achieve lower noise levels and better sound quality inside the vehicle, giving them a competitive advantage in the market. Demand for Ventac's service & product is driven by Legislation and also by the need of customers to differentiate their vehicle by achieving low noise levels. Ventac's main competitive advantages are:

- > The level of technical support
- > Product quality
- > Acoustic laboratory
- > The company's desire to fully support customers

Products & Services

The company produces noise control products for industrial vehicles and buses. The company provides a complete service solution for customers, which includes a full acoustic testing service and also distribute fans and accessories in Ireland for industrial and commercial ventilation.

Key Customers

Nacco Materials Handling Group (Hyster), Wrightbus, Terex, Alexander Dennis

Standards & Certifications

Products ensure that customers' vehicles achieve various noise & fire standards

Contact Details

Brendan Doyle/Darren Fortune
Fitzwilliam House, Blessington,
Co Wicklow, Ireland
E: sales@ventac.com
T: +353 45 851 500
W: www.ventac.com

Verteco Energy Ltd

Value Proposition

Verteco provides the technology and know-how that enable commercial organisations to reduce their energy consumption by identifying and eliminating avoidable waste. The company utilises a formal process and technology developed in house to monitor and analyse energy consumption and as a result to target avoidable waste in consumption.

Products & Services

Verteco CLEAN (Closed Loop Energy Analysis)
Verteco's focus is the 50% of a building's energy use that may be avoidable waste. This is achieved by matching a building's actual energy use to its operational needs in real time.

Key Customers

Dundrum Town Centre
Royal College of Surgeons in Ireland
Medical University of Bahrain
Microsoft

Standards & Certifications

Comply with regulatory requirements of Sustainable Energy Authority of Ireland (SEAI), Carbon Trust, Chartered Institution of Building Service Engineers (CIBSE)

Contact Details

Michael O'Toole
Court na Farraga, Station Road,
Killiney, Co Dublin, Ireland
E: michael.otoole@verteco.ie
T: +353 1 285 7883
+353 87 241 9305
W: www.verteco.ie

Wirelite Sensors Ltd

Value Proposition

Established in 2007, Wirelite Sensors provides cost effective Energy Management systems. Wirelite's leading edge wireless control system is installed by companies in the retail, hospitality, industrial, food and drinks processing sectors. Wirelite's customers are achieving sustainable energy savings of up to 25% on their yearly energy bills, saving them money while ensuring their operations are more environmentally friendly.

Products & Services

Wirelite's product gives the customer a complete view of their energy consumption in an easily understandable format.

Wirelite provides Wireless monitoring of electricity, gas, water, temperature, humidity, CO₂, and, Lux (light) levels. These combined with occupancy sensors and wireless automated controls, ensure that HVAC, refrigeration, cooking appliances, lighting etc. are all optimised to ensure that customers' energy guzzlers have integrated control and the operations are optimised for cost effective energy use .

Wirelite also offers an energy and demand management service. Together with the company's controls, Wirelite can deliver guaranteed savings that give a return on investment in under 14 months.

Key Customers

Retail (Supervalu (Musgrave), Spar (BWG), (Topaz), Hotels, (Fitzgeralds Hotels), Institutional (UCC), Offices (Deloitte and Touche).

Standards & Certifications

IS393 (Energy Standard), IEEE 802.15.4; Zigbee; Modbus;

Contact Details Ireland

Michael Phelan
Synergy Centre, Tallaght, Dublin 24
E: michael.phelan@wirelitesensors.com
T: +353 1 524 0736
W: www.wirelitesensors.com

Contact Details Overseas

Tom Bean
Synergy Centre, Tallaght, Dublin 24
E: tom.bean@wirelitesensors.com
T: +353 1 524 0736
W: www.wirelitesensors.com

Xtratherm Ltd

Value Proposition

Xtratherm's experience and expertise is in providing cost-effective, certified insulation solutions to the construction industry.

The Company's range of innovative rigid insulation products, components and detailing have been developed to meet the ever more stringent requirements of the Building Regulations. Xtratherm looks to the future needs of customers and prides itself in creating innovative solutions to future proof its products.

Products & Services

Xtratherm manufactures a range of foam insulation materials including expanded polystyrene (EPS), Polyiso PUR/PIR and Phenolic foam.

This comprehensive range of technology foams is supported by a suite of services including full technical support and on-line training for architects, contractors and self-builders.

Key Customers

Builders Merchants, Roofing Contractors, Insulation Distributors

Standards & Certifications

ISO 9001, ISO 14001, CE Mark, IAB & BBA Certification, FM Approval, Loss Prevention Standard LPS 1181

Contact Details Ireland

Sales Office
Liscarton Ind Est, Kells Road, Navan,
Co. Meath, Ireland
E: info@xtratherm.com
T: +353 46 906 6000
W: www.xtratherm.com

Contact Details Overseas

Jay Hynes
Liscarton Ind Est, Kells Road, Navan,
Co. Meath, Ireland
E: ej@xtratherm.com
T: +353 46 906 6066
W: www.xtratherm.eu