



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](http://www.enterprise-ireland.com)

See also  
[www.sei.ie](http://www.sei.ie)  
[www.idaireland.ie](http://www.idaireland.ie)  
[www.sfi.ie](http://www.sfi.ie)

**Water**





## Water

The water sub-sector includes the supply of technologies and services for the provision of drinking water; industrial, municipal and domestic wastewater treatment; and wastewater sludge management.

Significant investment has been made to upgrade the water infrastructure in Ireland, and many Irish companies have built strong know-how servicing this growth. Additionally, they provide world-class solutions to the large base of pharmaceutical, food and electronics companies in Ireland.

Other offerings from companies in the sector are stormwater attenuation, rainwater harvesting, desalination, heat and energy recovery, and high-tech analytical and monitoring products.

Acorn Water Ltd  
Anord Control Systems Ltd  
Aquafact  
Aqua-Sol Engineering Ltd  
Aqueduct Investments International Ltd  
Automsoft International Ltd  
AWN Consulting Ltd  
Bio-Industries Ltd  
bioCycle Ltd  
Biotech Treatment Systems Ltd  
BioTector Analytical Systems Ltd  
Bord na Móna Environmental Ltd  
Butler Manufacturing Services (BMS) Ltd  
Cantwell Electrical Engineering Ltd  
Celtic Anglian Water Ltd  
City Analysts Ltd  
Clearpower Ltd  
Compliance Consulting  
D3D (DigiTech 3D)  
Datac Control International Ltd  
Delap & Waller EcoCo  
Delap & Waller Energy Bureau  
Eirdata Environmental Services Ltd  
Envva Water Treatment  
EpiSensor Ltd  
EPS Pumping and Treatment Systems

Fay Environmental Ltd  
Fehily Timoney & Company  
FLI Brightwater  
FLI Energy  
Houston Precision Engineering  
Hydro International Ltd  
Jennings O'Donovan & Partners  
JF Mouldings (Eco Tanks) Ltd  
JFC Manufacturing Co. Ltd  
John Sisk & Son Ltd  
KER Services Ltd  
KMG Killarney Plastics Ltd  
Multi-Tech Design Ltd  
PM Group  
Qlab Ltd  
Renetech Ltd  
Response Engineering (REL) Ltd  
RPS  
SCFI  
Solids Technology International Ltd  
Sturdy Products Ltd  
Tobin Consulting Engineers  
Treatment Systems (TSL) Ltd  
Trustwater™  
Whitelite Automation Ltd

## Acorn Water Ltd

### Value Proposition

Acorn Water is a family-owned manufacturer of water and wastewater treatment chemicals since 1991 and offers a select range of chemicals for use in water and waste water treatment. With a young and dynamic organisation, Acorn's unique expertise is in providing solution-based products and services catering for domestic, industrial and Local Authority end users.

### Products & Services

Chemicals:

- > Aluminium Sulphate 8% Liquid
- > Ferric Sulphate
- > Polyaluminium Chloride, PAC
- > ACE 800 and a wide range of Polyelectrolytes

A wide range of Environmental Laboratory Services.

### Key Customers

Large industrial plants, dairy plants and Local Authorities throughout Ireland.

### Standards & Certifications

BS EN ISO 9001: 2000 Certification

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## 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. Anord's LV switchgear products are designed and certified to IEC 61439 standards.

Its services include, front end design support, site testing/commissioning and after sales service.

Anord has 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.

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## Aquafact

### Value Proposition

Aquafact is an environmental consultancy specialising in monitoring and managing resources in marine, freshwater and terrestrial environments. Aquafact staff have extensive applied and academic research experience, possessing a strong theoretical background in understanding all aspects of the environment. Aquafact personnel are fully competent in all current environmental assessment methods and are active in the further development and refinement of such techniques and their applications. Aquafact ensures a widely based service thanks to its contacts in the scientific community, its close association with the National University of Ireland Galway, Galway Mayo Institute of Technology and The University of Dublin, Trinity College, and the expertise of its scientific staff.

### Products & Services

- > Environmental Impact Statements (EIS)
- > Biological and physical/chemical sea bed and sea water surveys
- > Sediment Profile Imagery (SPI)
- > Hydrographic and Oceanographic surveys
- > Modelling studies
- > Ecological sampling and data analyses

### Key Customers

- > **Energy:** Eirgrid, ESB, Fugro worldwide, Fuinneamh Sceirde Teoranta, Gardline Environmental, Oriel Windfarm Ltd
- > **Fisheries:** Bord Iascaigh Mhara, Marine Institute, CEFAS
- > **Aquaculture:** Aquaculture Licence Appeal Board, Clare Island Seafarm Ltd,

Muirachmhainni Teo, Curraun Fisheries Ltd, Muir Gheal Teo., Marine Harvest Ltd

- > **Marine:** Galway Harbour Commissioners, Arup Consulting Engineers, Department of Communications, Marine & Natural Resources, Department of the Environment, Heritage & Local Government, National Parks & Wildlife Service, Fugro Worldwide, Galway City Council, Galway County Council, Gardline Environmental, Malachy Walsh Consulting Engineers, Mayo County Council, Meath County Council, PH McCarthy Consulting Engineers, RPS Kirk McClure Morton Consulting Engineers, Shannon Foynes Port Company
- > **Freshwater:** Ballinasloe Urban District Council, Donegal County Council, Sligo County Council, Tobin Consulting Engineers, White Young & Green
- > **Terrestrial:** Fuinneamh Sceirde Teoranta, Galway County Council, HGL O'Connor Consulting Engineers, Mayo County Council, Oriel Windfarm Ltd, RPS Consulting Engineers, Ryan Hanley Consulting Engineers, White Young & Green

### Standards & Certifications

ISO 9001:2000

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## Aqua-Sol Engineering Ltd

### Value Proposition

Aqua-Sol Engineering Ltd is a water-filter systems manufacturer. The company also designs a number of products for the purpose of purifying and desalinating water. Its products have a wide range of commercial and industrial applications. Aqua Sol has developed and patented a revolutionary new pressure filter that is designed to be the most efficient, cost effective, maintenance free and environmentally friendly pressure filter on the market.

### Products & Services

- > Variable Velocity Filter (VVF) Technology
- > Newly patented pressure filter
- > Internal components uniquely designed allowing for higher filtration rates
- > 100% media cleaning efficiency during every backwash cycle
- > Backwash efficiency eliminates cost of removal & disposal/replacement
- > Prevents bacterial colonisation
- > Entraps chlorine resistant pathogens (Cryptosporidium)
- > Energy saving running modes/system performance variations
- > The VVF Technology Sulphate Removal System can pre-treat 4,000,000 L of seawater per hour (Greater Plutonio Project)

### Key Customers

Acton's & Jury's Hotels, the Plaza Hotel Hydrotherapy Pool, The 'K' Club, Regency Hotel at Dublin Airport, Sir John Rogerson's Quay Project, Minella, Club, Lapps Quay Development and The Weir Group-Greater Plutonio Project

### Contact Details

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## Aqueduct Investments International Ltd

### Value Proposition

Aqueduct Investments International Ltd provides state of the art water dispensers for the home/office in a new and revolutionary packaged format... "taint free Bag in Box". (see our short video on [www.aqueduct.ie](http://www.aqueduct.ie)) The environmental savings in reduced carbon footprints of packaging plants, greater distribution logistics efficiency and increased profit levels make a compelling business case. Aqueduct's systems completely redefine the definition of cooler hygiene and logistics of supply....rendering "older bottle" systems unhygienic and logistically inefficient.

### Products & Services

Aqueduct supplies

- > a full range of state of the art Home and Office water (and fruit juice, Milk, Wine etc) dispensers
- > world wide capabilities to install "turnkey" packaging facilities...from semi automatic to fully automatic lines
- > distributors with packaged water in various sized formats (10 & 15L) for resale
- > a growing network of related water companies who can provide global packaged water solutions.

### Key Customers

Aqueduct works closely with many of the world's water/office service companies via a growing network of distributors.

### Standards & Certifications

All relevant national electrical and hygienic standards complied with.

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## Automsoft International Ltd

### Value Proposition

Automsoft's business case / value proposition to Utilities is they should have a standard Platform to meet all of their business needs. This greatly enhances the return on investment and operational benefits from systems.

By providing the client with access to meaningful asset and operation data, RAPID-Energy enables utilities to:

- > reduce costs
- > meet increasing regulatory obligations
- > maximise the performance of their assets by controlling and transferring loads
- > access valuable planning data for asset management
- > identify and address faults remotely (real time alarming and event notification)
- > reduce power outages by designing preventative maintenance schedules
- > generate maximum performance from their assets and
- > manage small and large scale plant changes.

### Products & Services

Automsoft's product, RAPID-Energy, enables utilities to manage and analyse their power transmission and distribution networks ("the Networks") through the deployment of real time IT systems. Its real time solutions collate, integrate and analyse data from all voltage levels within these Networks. Systems provide the platform to integrate, store and analyse real-time and asset information.

### 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

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## AWN Consulting Ltd

### Value Proposition

AWN Consulting has worked for Project Teams in some of the world's leading multinationals wishing to locate in Ireland. AWN has undertaken site selection, Phase I and II Environmental assessment, EIS and Planning Applications for inward investment projects totalling over \$1bn over the last 7 years. With a large in-house team of specialists, AWN can work under the most stringent confidentiality requirements to deliver projects through the permitting process. AWN is uniquely experienced in its ability to negotiate the permitting process to deliver clients requirements, within the environmental and planning framework in Ireland.

### Products & Services

- > Phase I and II Environmental Assessment
- > Environmental Impact Assessment and Permitting
- > Water Quality
- > Wastewater Treatment
- > Waste Management
- > Contaminated Land Risk Assessment & Soils
- > Environmental Noise and Vibration
- > Architectural and Building Acoustics
- > Air Quality and Climate
- > Seveso II Risk Assessment
- > Risk Assessment and Consequence Analysis
- > IPPC Licences
- > Environmental Management Systems
- > Carbon Footprint Assessments
- > Oral Hearings, Public Enquiries

### Key Customers

- > Inward Investors
- > Property Developers
- > Architects
- > Planners
- > Engineers
- > Local Authorities and EPA
- > Facility and Property Managers
- > Universities
- > Pharmaceutical Companies
- > Industrial/Chemical Process Industries
- > Quarries

### Key Clients include

- > Intel Ireland Ltd
- > Pfizer Pharmaceuticals
- > AIB
- > PriceWaterhouseCoopers
- > ESB
- > Irish Rail
- > Abbott Ireland
- > Wyeth
- > Arup
- > Vodafone
- > Covanta Energy
- > Liffey Valley Shopping Centre

### Contact Details

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## Bio-Industries Ltd

### Value Proposition

Bio-Industries offers wastewater treatment products and solutions. Bio-Industries has over 17 years experience in enabling customers to meet their discharge standards. The company specialises in sewage treatment plants and lift stations; septic tanks and leach fields; industrial waste treatment; industrial odour control; bioremediation of petroleum hydrocarbons; pond maintenance; agricultural waste treatment; plant growth; seeding / reseeded of wastewater treatment systems; nutrient addition for the purposes of improving biological breakdown.

### Products & Services

- > Microbial products with and without enzymes
- > Stabilized enzyme additives
- > Chemical specialty products with biological additives
- > Custom microbial strains
- > Custom preservative systems
- > Custom chemical specialty products
- > Products are available in liquid or powder
- > Own-Label products with customisable labelling
- > Site inspection
- > Advice on waste treatment operations
- > Testing coordination & evaluation
- > Aeration engineering

### Key Customers

Pfizer, Glanbia, Dawn Group, Aughinish Alumina, British Sugar, Translink, Kerry Group, County Councils, DAA, Lakeland, Liffey Meats, Dyno Rod

### Standards & Certifications

ISEN ISO 9001:2000 and 1400

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## bioCycle Ltd

### Value Proposition

bioCycle designs, manufactures and installs a sustainable and superior wastewater treatment system that meets with General Product Safety and Consumer Protection Regulations. The benefits for consumers are that the system can operate for up to 10 years before desludging is required, does not require regular customer involvement to operate, can be used to recycle the treated effluent for irrigation to scrubs trees etc, can adjust its energy use to meet customer needs and the entire system comes with a Product Liability Insurance cover.

### Products & Services

bioCycle provides:

- > site assessment and product design service
- > for the installation of the treatment plant and disposal system
- > range of commercial and domestic systems
- > certification on completion that the system is operational to meet requirements and meets current regulations
- > warranty that includes an initial 3 year guarantee that includes free service, labour and parts and an extended warranty when customer enters into a service contract agreement
- > the CE Mark and test result information to meet EN 12566-3 standard for water tightness, structural durability and efficiency

bioCycle undertakes:

- > commercial and domestic systems
- > septic tank and wastewater treatment system replacement
- > tertiary filters
- > grease traps
- > oil/petrol interceptors
- > site assessment
- > service and maintenance of all makes of treatment systems

### Key Customers

Oil companies, Local Authorities, Irish Rail, ESB, Department of Education, Commercial, Retail, Domestic.

### Standards & Certifications

EN 12566-3 Certification  
ISO 9001:2008 Covering Design, Manufacturing, Installation, and Service.

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## Value Proposition

Biotech's water treatment system, with its unique, patented sand polishing delivers recovered water suitable for full re-use.

With a UV light filter, the recovered water is of drinkable quality. The product has been tested exhaustively in Ireland, Germany and the USA. It has been awarded the highest level validation, which allows it to be sold anywhere in the world.

## Products & Services

- > 8-10 Person Sewage Treatment Plant
- > Septic Tanks
- > Cesspools and Storage Tanks
- > Package and Pump Stations
- > Grease Traps
- > By-pass Separators – Class 1
- > Full Retention Separators – Class 1
- > Silt Traps
- > Storm Attenuation Tanks
- > Micro-Organisms – non-chemical treatment
- > U.V. Lights
- > Sand and Reed Filter Beds
- > Larger scale Sewage Treatment Plants

## Key Customers

- > Government and local authorities
- > Single and multiple unit domestic developments
- > Sport and leisure facilities
- > Commercial and Industrial Plants
- > Private and commercial waste management operators

## Standards & Certifications

- > Irish Agrément Board Certification (NSAI)
- > CE Mark
- > EN 12566-3 (Germany)
- > NSF 245 (USA)

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## Contact Details Overseas

Base in Raleigh, North Carolina  
being set up in 2010

## BioTector Analytical Systems Ltd

### Value Proposition

BioTector liquid analysers are specifically developed for continuous analysis in the harsh on-line environment. Guaranteed to handle the most demanding applications, the BioTector's patented Self-Cleaning Oxidation Technology has overcome the traditional problems associated with on-line measurement and can reliably measure samples containing salts, fats, oils and greases. BioTector analysers have been installed in over 500 applications worldwide, many of which would have been considered unsuitable for on-line analysis prior to the advent of the BioTector Self-Cleaning technology.

### Products & Services

BioTector Analytical Systems manufacture the BioTector range of on-line liquid analysers for environmental monitoring, process control and waste minimisation across both the industrial and municipal markets. The BioTector utilises a self-cleaning technology for the measurement of such parameters as Total Organic Carbon, Total Nitrogen, Nitrates, Phosphates, Total Kjeldahl Nitrogen, Total Phosphorus, Chemical Oxygen Demand, Biochemical Oxygen Demand, Total Carbon, Total Inorganic Carbon and Volatile Organic Carbon.

BioTector's patented oxidation technology revolutionises traditional methods, providing an optimal, self-cleaning solution for TOC, TN & TP analysis. Due to its ease of use, reliability and low cost of ownership, BioTector products have gained worldwide acclaim with many large multinationals.

### Key Customers

DOW Chemicals, Shell, Pfizer, BASF, Novartis, Diageo, Corn Products, Glaxo SmithKline Pharmaceutical, ADM.

### Standards & Certifications

ISO 9001:2000

### Contact Details

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## Bord na Móna Environmental Ltd

### Value Proposition

Bord na Móna Environmental is a leading environmental solutions provider with a proven track record in the design, manufacture and installation of on-site rainwater capture, wastewater treatment and air pollution abatement systems. Bord na Móna offers unique, patent protected, well established technologies that promote sustainable high performance solutions consistent with low energy usage and low lifecycle cost. With operations in Ireland, UK, France, Italy and the USA, the company has a track record of delivering efficient, effective solutions.

### Products & Services

The odour abatement and wastewater technologies offer low cost, innovative solutions to the industrial and municipal sectors which are essentially “green” and environmentally friendly. The Bord na Móna patented odour/VOC control technologies MONASHELL and MONAFIL have become recognised as leading edge technologies across a range of applications (solid waste, wastewater treatment, food/agri, industrial, chemical/pharma sectors) with over 600 installations throughout the EU, USA and Asian markets. Bord na Móna Environmental also supplies market leading sewage treatment plants such as Puraflo and Platinum, surface water solutions, pumping stations, RainSava rainwater harvesting and packaged wastewater treatment plants for one-off housing and residential/commercial developments.

### Key Customers

Bord na Móna offers solutions to the industrial, municipal, Local Authorities, housing, commercial, retail, and residential sectors.

### Standards & Certifications:

- > INAB accreditation for the Laboratories
- > IAB Agrément Certification – Platinum Wastewater Treatment System
- > IAB Agrément Certification – Puraflo Wastewater Treatment System
- > NSF Certification USA
- > CEN Certification pending

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### USA

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## Butler Manufacturing Services (BMS) Ltd

### Value Proposition

BMS is a specialist designer and manufacturer of wastewater and surface water treatment products. The aim of the company is to supply high quality products, of a superior design which provide a cost effective solution for customers.

### Contact Details

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### Products & Services

- > BMS Blivet – the most compact “all in one” sewage treatment plant
- > Grease Traps & Interceptors
- > Drainage Pumps
- > Silt Traps
- > Recyclone Vehicle wash water recycling
- > BMS Stormbreaker Storm cell technology

### Key Customers

- > Department of Education & Science, Ireland
- > MMD Consortium
- > Tesco
- > Laois, Mayo, Cork, Longford, Cavan and Westmeath County Councils, Ireland
- > Kellogg Brown Root
- > Bechtel

### Standards & Certifications

Quality Certification  
ISO 9001:2000 accredited by the National Standards Authority of Ireland (NSAI)  
Agrément Certification for Petrol/Oil Interceptors



## Cantwell Electrical Engineering Ltd

### Value Proposition

Cantwell Electrical Engineering was established in 1982 and is now one of the leading companies supplying and installing pumping and treatment equipment solutions. Cantwell Electrical Engineering has built up vast expertise in effluent treatment, water treatment, chemical pumping, rural water supply and domestic water supply.

### Products & Services

- > Water Treatment
- > Chemical and Process Pumping
- > Rural water, domestic water and waste water supply

### Key Customers

Commercial, Industrial, Local Authorities, domestic and agricultural sectors

### Contact Details

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# Celtic Anglian Water Ltd

## Value Proposition

Established in 1998, Celtic Anglian Water is Ireland's largest private provider of world class water and waste treatment services. Celtic Anglian Water delivers cost-effective operations and maintenance contracts to Municipal & Industrial Clients in Ireland and the UK.

The company provides wholesome drinking water and accurate customer bills to those communities which it serves.

Celtic Anglian strives to conserve water and energy resources in order to reduce our impact on climate change. The company policy is formulated on the sustainable recycling of waste and it recycles treated products to protect and enhance the natural environment.

## Products & Services

- > Operation & Maintenance of Municipal & Industrial Water & Wastewater Treatment Plants.
- > Water Meter reading, billing and revenue collection services
- > Organic Waste Digestion, CHP, Co-Generation

## Key Customers

Local & Municipal Authorities, Waste Management Companies, Water & Drainage Authorities, Water Companies, Process Manufacturing Industries

## Standards & Certifications

ISO9001, ISO14001, OHSAS 18001

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## City Analysts Ltd

### Value Proposition

City Analysts offers a one stop shop for all clients' environmental sampling and analytical needs. Covering areas such as water, sewage, soils, air and noise, it provides fully trained sampling staff and dedicated sample transport back to its INAB accredited laboratories.

### Products & Services

- > Environmental analyses including water, soil, air and noise.
- > Specialist services such as Cryptosporidium and Q rating
- > Method development
- > Sampling
- > Training
- > Auditing for compliance
- > Analytical validation for clients on their site.

### Key Customers

Our Key customers are local authorities, health boards, private industry, consultants and the general public

### Standards & Certifications

City Analysts Ltd are fully INAB (Irish National Accreditation Board) accredited. Participate fully in external proficiency schemes such as Crypts, Aquacheck and Health Protection Agency.

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## Clearpower Ltd

### Value Proposition

The Environmental Services Division of Clearpower is a leading recycler of sludge 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 their clients while at the same time delivering a regular crop of CO<sub>2</sub> 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.

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## Compliance Consulting

### Value Proposition

Compliance Consulting offers local authorities and water companies specialised services for the control and monitoring of the discharge of Fats Oils and Grease (FOG) from Food Service Establishments (FSE's) into the public sewerage system. This waste, FOG, causes blockages and can choke city drains causing huge problems for pumping stations and waste water treatment plants. Compliance Consulting offers a fully managed FOG programme using local licensing/permits to control the discharge of FOG from commercial food businesses.

### Products & Services

Specialised services offered by Compliance Consulting include:

- > Assessment of current FOG management systems
- > FOG management programme development
- > FOG management programme implementation on behalf of local authorities or water companies
- > Analysis and reporting of FSE impact on sewer systems
- > Food Service Establishment education programmes (commercial and domestic)

Fats Oils and Grease (FOG) programmes Include:

- > FOG Pilot Study
- > Programme Planning and development
- > Programme implementation
- > FSE training, licensing and monitoring
- > FSE sampling to gauge compliance and overall programme effectiveness
- > Regular programme reporting to EPA standards
- > Notifying FSE's of any violation with discharge requirements
- > Collaboration with all relevant parties to ensure adherence to regulatory standards and consistency with programme goals.

### Key Customers

Dublin City Council – Compliance Consulting was awarded the first FOG management programme to be run in a Capital city in 2008. The firm contracted to License and Monitor over 2000 FSE's in relation to the discharge of waste water from food service establishments.

### Standards & Certifications

ISO 9001

### Contact Details Ireland

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## D3D (DigiTech 3D)

### Value Proposition

D3D (DigiTech 3D), established in 1996, provides through the combination of technology, experience and 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 we do:

- > Create a mathematical model of the environment
- > Photorealistic CGI's 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 9000

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## 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. The company supplies 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 it offers the best value for money with excellent customer support. 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 customers are found in Oil and Gas, Water/Wastewater, Marine, Telecomms, Power Utilities.

### Standards & Certifications

ISO 9001 2000 Certified; ATEX approved; EN50020 accredited

### Contact Details Ireland

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## Delap & Waller EcoCo

### Value Proposition

Delap & Waller EcoCo is a leading sustainable design and operation consultancy. Our 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
- > Languages: English, French, Czech, Slovak

### 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

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## Delap & Waller Energy Bureau

### Value Proposition

The Energy Bureau future-proofs and improves the energy performance / asset value of new and existing buildings. We use 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. We bring 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 (CHP, 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 BREAAAM Assessors  
 Certified BER Assessor for Residential Buildings and Non Residential Buildings

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## 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. Engineering competence covers a wide spectrum of disciplines including electrical, mechanical, process, chemical, buildings, renewables and automation. Eirdata provide 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 ISO9001 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

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## Enva Water Treatment

### Value Proposition

Enva Water Treatment specialises in providing tailored solutions for solving water and wastewater problems. The company has developed on the foundation of being more than just chemical or equipment providers - it is also a solutions provider. Enva is backed up by highly qualified professional employees who understand that no two customers or applications are the same. Enva offers an extensive range of laboratory, field-survey and pilot plant services, as well as innovative environmental engineering solutions. The company also offers a range of water treatment options including; chemical products, dosing and control systems, activated carbon filters and UV technology. UV systems are proven for the inactivation of the highly topical *Cryptosporidium* micro-organism and can eradicate a wide range of other water borne bacteria, algae, moulds, yeasts, viruses, cysts and protozoa.

### Products

- > Flocculants
- > Filtrafloc
- > Antifoams
- > Phosclear
- > Activated Carbon
- > Scale Control
- > Antibulk
- > Odour Block
- > Nutrifeed

- > Nutrifeed M
- > Precip Heavy Metal Decontaminant
- > Bacteria & Micro-organisms
- > Ammonia & Nitrification
- > Nitrate & De-nitrification
- > General Chemical Supplies

### Technologies

- > Ultraviolet (UV) Technology
- > Flocculation, Coagulation, & Precipitation Systems
- > Sludge Dewatering Plant
- > Plant Operation Expertise
- > Pilot Plants
- > Sand Carbon & Ion Exchange
- > Plant Finance Options
- > Composite Samplers & In-line Monitoring
- > Custom Designed Effluent Treatment Plants

### Standards & Certifications

- > ISO 9001
- > ISO 14001
- > OHSAS 18001

### Contact Details

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## 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. EpiSensor's wide range of highly accurate sensors can measure, temperature, energy usage (electricity, gas, water and heat), light levels, water quality and other parameters. The 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 supply the sensors, routers, gateways and monitoring software to build wireless sensor networks to meet customers' needs. Customers include OEM's 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 our wireless transmitters is pending.

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## 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 had built expertise in effluent treatment, water treatment, chemical & process pumping, rural water supply, domestic water and waste-water treatment and borehole pumping. With 5000m<sup>2</sup> 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 have 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

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## Fay Environmental Ltd

### Value Proposition

Fay Environmental Ltd has designed a unique gravity sand filter using deep bed technology for polishing of effluents from waste water treatment plants in order to meet stringent final effluent standards.

### Products & Services

Design and construction of a range of waste water treatment plants for treatment of domestic waste water.

Design and construction of anaerobic digesters for treatment of high strength waste water with gas recovery.

Fay Environmental specialises in providing a unique modular type tertiary sand filtration system for polishing of final effluents.

### Key Customers

Local Authorities, Nursing Homes, International Hotel Group, Food Processing Factories.

### Contact Details

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## Fehily Timoney & Company

### Value Proposition

Fehily Timoney & Company 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 its 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/ Monitoring
- > Geotechnical Engineering including peat stability assessment
- > Landfill Development/Remediation
- > Life Cycle Assessments – WRATE Modelling
- > Mechanical Biological Treatment
- > Sludge Management
- > Waste Management Planning
- > Energy Audits
- > Grid connection feasibility
- > Landfill Gas Energy Modelling
- > Wind resource assessment
- > Wind farm planning
- > Hydrology / Flood Assessments and hydropower studies

- > General and Specialist Ecology Services
- > 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 Móna, Environmental Protection Agency

### Standards & Certifications

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

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## FLI Brightwater

### Value Proposition

Part of the FLI Group, FLI Brightwater is a wastewater treatment specialist with more than 30 years experience in the design, manufacture and installation of wastewater treatment plants for the UK municipal market. The company is a leading supplier of Biological Aerated Flooded Filter (BAFF) technology, having provided over 80% of the UK's installed plants. A recent technological development is its Submerged Aerated Filter (HSAF) technology which has been very successful due to its exceptionally low power consumption and small environmental footprint. FLI Brightwater also service the Industrial wastewater market supplying a wide range of specialist services to the food, brewing and process industries where operational and energy efficiency are key elements.

### Products & Services

- > Primary Treatment
- > Secondary Biological Treatment
- > Tertiary Treatment
- > Physical/Chemical Treatment
- > Chemical Dosing Systems
- > Sludge Handling and Thickening
- > Sludge Digestion
- > Design and Construct Projects
- > Process Maintenance
- > Planned and Emergency Maintenance Cover

### Processes Include:

- > BIOBEAD® BAFF
- > BMAX® HSAF/MBBR
- > MEMBRIGHT® MBR
- > FILTABED
- > SBR plant

### Key Customers

Anglian Water, United Utilities, Scottish Water, Yorkshire Water, Northern Ireland Water, Northumbrian Water, Southern Water, South West Water, Dwr Cymru Welsh Water, Plus a broad range of Industries.

### Standards and Certification

ISO 9001 & ISO 14001 Standards

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## 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  
GWE AD technology  
BAL Dry Digestion

### Key Customers

Local Authorities, Waste Producers/  
Processors, Industrial Clients

### Standards & Certifications

ISO 9001 & ISO 14001 Standards

### Contact Details Ireland

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## Houston Precision Engineering

### Value Proposition

Since the company was formed in 1980 Houston Precision Engineering has put innovation to the fore front in its strategy for growth.

The company 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 of 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

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(Under Construction)

## Hydro International Ltd

### Value Proposition

Hydro International was established in 1995 and specialises in the design, manufacture, installation, commissioning and operation of sewerage treatment plants for the municipal, industrial and commercial sectors. The company offers a full range of services associated with this area including maintenance and service contracts, rental of equipment (both short and long term) and where necessary full operating contracts of customers' treatment plants.

### Products & Services

Hydro International supplies the following technology:

- > Pumping Stations
- > Stormwater Systems
- > Inlet screening
- > SCAF/DAF Plants
- > Chemical Systems
- > Biological Treatment plants
- > Tertiary Treatment
- > Flow Monitoring & Sampling
- > Sludge Dehydration (Belt Press Centrifuge Systems)
- > Sludge Drying using Micro Wave Technology
- > Anaerobic Digestion
- > Vacuum Sewage systems

### Key Customers

Markets include: Ireland, UK, and Continental Europe.

Clients include: Kerry Group, Irish Defence Forces, Department of Education & Science, McVities, Bentley, ICI, Bulmers, C&C, Wellman Industries, Wyeth, Hotel & Leisure Sector.

### Standards & Certifications

ISO 9001:2000 accredited

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## Jennings O'Donovan & Partners

### Value Proposition

The unique selling point of Jennings O'Donovan is its proven track record in the Renewable Energy Sector. Jennings O'Donovan & Partners have been an established presence in the Renewable Energy Wind Farm Sector since 1998. To date, the company has a portfolio of projects extending to over 1,000MW of power and is a recognised market leader in Wind Energy development. This portfolio will equate, when completed to an investment of €1.7 billion in the Wind Energy Sector.

In addition Jennings O'Donovan is particularly specialised and experienced in the fields of water supply, drainage and sewerage. It provides water engineering services to large municipalities, regional water schemes and group water schemes.

### Products & Services

Jennings O'Donovan & Partners provide consulting engineering services in the areas of water supply, wastewater collection and treatment, environmental resource management and impact assessment, civil engineering, structural engineering, roads design, housing and commercial development as well as to the Renewable Energy Sector.

### Key Customers

Airtricity, BAM, Eco Wind Power/Viridian, Doreen Walker Ltd, Flugland Gaelectric, SWS, Wind Source.

Please refer to website for more details on international projects – [www.jodireland.com](http://www.jodireland.com)

### Standards & Certifications

ISO 9001:2000  
CPD Accredited Employer

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## JF Mouldings (Eco Tanks) Ltd

### Value Proposition

JF Mouldings Ltd, trading as Eco Tanks, was established in 1992. The company manufactures Agrément certified effluent-treatment systems for domestic and industrial applications. JF Mouldings undertakes a wide variety of GRP (Glass Reinforced Products) projects and is constantly developing new products in the environmental, energy and construction sectors. The company has successfully expanded into plastic injection-moulding with a view to expanding into the European market.

### Products & Services

Eco Tank effluent treatment systems for domestic & industrial applications

### Standards & Certifications

The company has successfully achieved Agrément Certification for its Effluent-Treatment Systems.

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## JFC Manufacturing Co. Ltd

### Value Proposition

JFC Manufacturing Co. Ltd is a global plastics manufacturer, active in the environmental, recycling, civil, agricultural, marine, and materials handling industries. JFC fabricates moulds and manufactures products with the most advanced machinery available, in the rotational moulding industry. The company designs all its products in-house. Investment in people, research & development, cutting-edge technology and an unerring commitment to quality and its customers ensure JFC's position as a market leader in the plastics industry. With its headquarters in Tuam Co Galway Ireland, JFC has sales offices in Shropshire and Stratford-Upon-Avon in the UK, and further sites in the Netherlands, Poland and South Africa. The company also has an additional state-of-the-art recycling plant in Runcorn, Cheshire which recycles approximately 20,000 tons of plastic bottles a year.

### Products and Services:

- > Bottlebanks
- > Underground Bottlebanks
- > Wood Pellet Bins
- > Waste Oil Storage Tanks
- > Recycling & Sorting Units
- > Battery Banks
- > Aluminium Foil (Alufoil) Banks
- > Drink Can Banks
- > JFC Earth-wood
- > Rainwater Harvesting Systems

### Services:

- > Contract Moulding
- > Design & Development
- > Plastic Rotational Moulders

- > Pipe Extrusion
- > Plastics Recycling

### Stormwater Management Solutions Products

- > HydroChamber
- > HydroCell
- > CorriPipe™ & Fittings
- > HydroValve Vortex Flow Control
- > Petrol & Oil Interceptors
- > Weholite Large Diameter Pipe
- > Domestic & Commercial Grease Traps

### Key Customers

Waste Management, Agriculture and Construction Sectors

### Standards & Certification

ISO 9001-2008

### Contact Details

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### UK Civils

Mr Geoff Allen [info@jfcuk.com](mailto:info@jfcuk.com)

### UK Recycling

Mr Andy Bagnall [info@jfcplastics.com](mailto:info@jfcplastics.com)

### Germany, Benelux & EU

Mr Ytsen Van Der Velde [info@jfc europe.com](mailto:info@jfc europe.com)

## John Sisk & Son Ltd

### Value Proposition

John Sisk & Son Ltd have been Main Contractors for over 150 years and have 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 can now benefit from this unrivalled knowledge and capability together with the experience gained on a diverse range of current energy projects thus ensuring your 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 has a dedicated group working to provide a service to clients who want practical solutions to sustainability and energy efficiency issues and requirements. This knowledge based, multi disciplined, centre of excellence team build relationships with interest groups and market drivers and

support the project teams delivering projects for our clients.

#### *Renewables (Wind, Hydro, Wave):*

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

#### *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 and a large waste to energy facility in Co Meath, Ireland. Sisk was also constructing a 2000MW CCGT power station in Pembroke, Wales.

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## KER Services Ltd

### Value Proposition

KER Services was founded in 1996 to fulfil the need for a full-service engineering company providing support to Ireland's fishing, fish processing, and aquaculture industries. Such support services include wastewater treatment. In 1999/2000, KER developed the first effluent treatment plant to use the ecoFloc Process. Completion of the plant required the identification of pre-screening and filtering methods for the ecoFloc Process which led to KER becoming agents for MEVA in Sweden and Salsnes Filter of Norway. KER has since successfully implemented the MEVA Screens and Salsnes Filters in other industries. A very active Research and Development (R&D) program has KER involved in Projects with Enterprise Ireland and the EU.

### Key Customers

In addition to fishing and aquaculture KER's clients include companies in meat and dairy, baked goods, personal health care, textiles, and light manufacturing.

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## KMG Killarney Plastics Ltd

### Value Proposition

Killarney Manufacturing Group is headquartered in Ireland, with multiple manufacturing locations in the UK, that are dedicated to manufacturing composite solutions for the construction, automotive, rail, aeronautical and environmental sectors. KMG now manufacture products as diverse as, fireproof train seats, electrical & gas metering cabinets, door skins, wastewater treatment plants, safety products and specialist Composite Compounds.

### Products & Services

KMG through the brands "Silverline Tanks" and "Tri-Cel Environmental Solutions" have developed its markets in Ireland, the UK, Middle East & Africa, boasting success in supplying many large-scale projects.

Silverline Tanks are sectional (modular) tanks that are exported worldwide, flat pack on pallets for site assembly. The tanks are available as potable tanks, process water, rainwater harvesting, grey water, sprinkler and firefighting tanks.

The Tri-Cel domestic wastewater treatment system is a unique modular system that is ideally suited to global export markets.

All of the products are manufactured in accordance with relevant Local Authority specifications and all of the relevant certifications are held within the group.

### Key Customers

Key customers include construction related & automotive companies. Bord Gais Eireann, EBS, DELL, Bord Na Mona Environmental, Bombardier, National Grid (Transco), HSE (hospitals), most Irish Builders Merchants, Rolls Royce, Opel etc

### Standards & Certifications

Irish Agreement Board, IS EN 12566-3, WRAS, LPCB, ISO 9001:2000 etc

### Contact Details Ireland

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## Multi-Tech Design Ltd

### Value Proposition

Multi-Tech Design Ltd modify and replace equipment for Waste Disposal / Recycling, Water and Waste Water Treatment. Multi-Tech Design Ltd has signed an agreement and acquired the licence to manufacture and market in all of Europe a system involving a rotary type autoclave for the treatment of hospital yellow bag waste. The plant will, by use of heat and rotation, automatically sterilise the waste and reduce it by 80%. The treated output from the autoclave is mechanically sorted to identify the various waste streams and determine those elements available for recycling. At least 80% of the treated waste will be recycled.

### Products & Services

Autoclaves, Screens, Conveyers, Filters, Hydrofloat / DAF units, Clarifiers, Vortex Tubes, Floating Structures, Pressure Vessels and Process Vessels.

### Key Customers

Waste Disposal / Recycling Companies, Water & Waste Water Treatment Companies, Local Authorities and Industrial / Process Industries.

### Contact Details

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## PM Group

### Value Proposition

Since 1973 PM Group has delivered world-class planning engineering and environmental services. Today PM Group, 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 ranged from 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 Group is involved in a wide range of projects from small consultancy studies to large-scale, complex, fast-track capital projects. Its 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 its 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

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## Qlab Ltd

### Value Proposition

Qlab Ltd is an independent accredited laboratory offering a range of analytical services with a strong focus on the environmental sector. Its highly trained teams have an in-depth level of technical expertise along with knowledge of legislative requirements and guidelines in the environmental sector.

### Products & Services

- > Laboratory services
- > Environmental analysis

### Key Customers

- > County councils
- > Water service companies
- > Environmental consultants
- > Industrial sector
- > Sewage and effluent treatment companies

### Standards & Certifications

- > INAB
- > ISO 17025

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## Renetech Ltd

### Value Proposition

Renetech's mission is to be a sustainable and environmentally adapted producer of vehicle fuel, electricity, heat and biogas through solutions for waste and biomass management and energy efficiency. Renetech develops projects in collaboration with technology providers, contractors, equity partners and local stakeholders. Renetech focuses on the process; project and financing of the plant build of Anaerobic Digester plants, Bio-refineries and CHP plants.

### Products & Services

Renetech conducts pre-feasibility and feasibility studies including business case assessment for bioenergy projects in Europe and Africa. Renetech provides design, build and operate consultancy services for both small and large scale Anaerobic digester, Biofuel, Bio-refinery and CHP plant development; including project management and development services. Renetech also provides consultancy services in the area of project finance for large scale bioenergy projects.

### Key Customers

Food & Meat Processing companies; Power companies; Government agencies and NGO's in the renewable energy field.

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## 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

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## RPS

### Value Proposition

RPS is uniquely integrated across planning, engineering, environmental and communications in Ireland. RPS specialises in project and communications management of some of Ireland's most sensitive projects.

### Products & Services

RPS is Ireland's leading multi-disciplinary consultancy, providing services in:

- > Sustainability & Climate Change
- > Project Communications
- > Energy
- > Water Resources & Services
- > Environment
- > Waste Management
- > Planning & Urban Design
- > Transport
- > Buildings & Structures
- > Engineering Asset Management

The company's main areas of business include feasibility, planning, design, stakeholder services, procurement and construction supervision of major projects. RPS has close to 40 years experience in providing environmentally sustainable solutions for the public and private sectors.

RPS is also a global company with offices in Ireland, UK, Netherlands, Poland, USA, Canada, Australia and South East Asia.

### Key Customers

Shell, EirGrid, Department of Environment, Heritage & Local Government, Environmental Protection Agency, Northern Ireland Water.

### Standards & Certifications

- > ISO 9001: 2008
- > ISO 14001: 2004
- > OHSAS 18001: 2007
- > Engineers Ireland Corporate Affiliate
- > Member of the Association of Consulting Engineers of Ireland
- > Member of the Energy Institute

### Contact Details

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## SCFI

### Value Proposition

SCFI's unique AquaCritox® technology is based on super critical water oxidation for the destruction of wastes that contain high levels of water and are not suitable for recovery or incineration. Waste streams that can be processed using the AquaCritox® process include sludges such as sewage and water plant sludge, oily sludge, waste water streams. Destruction is rapid (less than 60 seconds) and complete with no hazardous by-products or emissions.

### Products & Service Offering

SCFI offers standard Aqua Critox® plant for applications such as sewage sludge processing, waste stream processing and precious metal recovery from catalysts. SCFI operate a validation centre in Cork, Ireland where customer materials can be evaluated and energy and mass balance can be confirmed for the particular waste stream. From this information it is possible to generate costs and accurate operating cost data and energy recovery forecasts. SCFI operate a full laboratory service for client sample analysis and are happy to advise customers of the most effective ways of dealing with a particular waste stream or how to recover precious components from spent materials such as catalysts.

### Key Customers

Global and regional water companies, global pharmaceutical manufacturers and speciality chemical companies.

### Contact Details

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## Solids Technology International Ltd

### Value Proposition

Solids Technology International Ltd is a market leader in the field of environmental protection and preservation, with a large client base spreading worldwide.

Established in 1974 in Dublin, Ireland, Solids Technology International Ltd strives to develop new and innovative ideas for the water and wastewater industry. Originally born from the development of its high-performance belt filter dewatering equipment the company has grown rapidly since then and has continued to expand into the global organisation it is today.

### Products & Services

The company's product range includes Filter Belt Presses, Gravity Belt Thickeners, Centrifuge Decanters, Polymer Preparation Systems, Conveying Systems and Bench Press Testing Facilities. Its Belt Filter Systems are manufactured from stainless steel and are fully enclosed machines but with all mechanical and electrical components located outside the harsh dewatering area.

Solids Technology's R&D department is continuing to develop the existing products which have all recently been re-designed using full 3D design facilities, but also to design new products. The company have this year installed its first inlet works screening system and will be rolling these products out over the next 12 months.

### Key Customers

- > Irish County Councils.
- > UK water companies.
- > Major overseas local and national authorities.

### Standards & Certifications

ISO 9001:2008

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## Sturdy Products Ltd

### Value Proposition

The Hydrostore tanks low profile means that it does not need to be buried as deep and the excavation can be completed by hand digging. It can also pass through door ways or side passage ways.

The 1 tonne Polystore is ideal for the storage of wood pellets. The unit can be modularised for greater capacities. It can fit through a standard doorway and can be erected outside homes or in outhouses.

The company also manufactures a range of water storage tanks varying from 950Ltrs to 10,000Ltrs.

### Products

- > Hydrostore - Rain Water Harvesting System
- > Polystore - Wood Pellet Storage Unit
- > Water Storage Tanks

### Services

- > Reprocessing & Recycling of end of life HDPE & MDPE Products
- > Steel Bin Refurbishment

### Key Customers

Customers include Local Authorities, Hospitals, Laundries, Households, Hotels, Farmers, Schools, Fire Stations, Building Contractors and Builder Wholesalers.

### Standards & Certifications

ISO 9001:2000

### Contact Details Ireland

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## Tobin Consulting Engineers

### Value Proposition

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

### Products & Services

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, bridges, commercial developments, airports, sports and leisure developments. TOBIN currently employs over 150 staff throughout Ireland. TOBIN opened a Polish branch office in March 2009 located in Łódź and is currently continuing to expand new business base in Poland.

### 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

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## Treatment Systems (TSL) Ltd

### Value Proposition

TSL provides full turnkey water / wastewater services as consultants or D/B contractors.

Process / Mechanical / Electrical / ICA designs are provided with PI warranty.

Over 20 years TSL has been renowned for state of the art technology with R&D. Services include chemical / biological processes, preliminary studies / reports, detailed P/M/E design, equipment FDS / procurement, site installation / supervision, specialist site commissioning / calibration / testing / training and operation.

### Products & Services

TSL provides engineering designs with Professional Indemnity Cover based on nominated scope. Services are provided to the municipal and all industrial sectors.

TSL's services comprise:

- > Preliminary works, surveys, reports, upgrade costings
- > Laboratory / Pilot Studies
- > Process design with Professional Indemnity Cover
- > Detailed mechanical engineering with FDS
- > Detailed electrical, ICA, telemetry and SCADA design with FDS
- > Procurement including quality control and inspection
- > Budget planning, cost planning
- > Project / engineering management
- > Maintenance and Operating and Utility Management

- > Commissioning / Calibration / Testing and training of site operatives
- > Construction interface/planning/quality control / Health & Safety to CDM Regulations
- > Energy from Waste including digestion / biogas scrubbing / CHP / generation

### Key Customers

Irish Municipal, UK Utilities, Irish & UK Pharma, Irish Food, Irish & UK Brewing / Distilling, Energy Reuse Clients

### Standards & Certifications

ISO 9001 and ISO 14001; Achilles Certified; H & S / Contract Management to CDM Regulations.

### Contact Details Ireland

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## Trustwater™

### Value Proposition

Trustwater™ offers state-of-the-art technology for water and general disinfection requirements. Trustwater™ patented Ecaflo™ technologies produce activated mixed-oxidant solutions which destroy all forms of microbes including cryptosporidium. No technology more efficiently destroys resistant biofilm. Trustwater™ solutions are many times more effective than advanced oxidant techniques such as chlorine dioxide and ozone, and many times more effective than conventional biocidal chemicals, yet are completely harmless to man and the environment. As such Trustwater™ offers significant efficacy, health and safety and environmental advantages over conventional disinfection methods.

### Products & Services

The Trustwater™ device range produces solutions on-site and on demand. Trustwater™ water disinfection systems have been successfully installed worldwide for applications such as:

- > Legionella Prevention in water systems and cooling towers
- > Clean in Place in food and beverage processing environment
- > Pharmaceutical Process Water Treatment
- > Municipal drinking water disinfection
- > Food Industry and Industrial Process Water Treatment Biofilm removal and prevention
- > Oil and gas frac water treatment

Trustwater™'s general disinfection systems are being successfully used for:

- > Hospital Infection Control
- > Dental Disinfection
- > Hard Surface Sanitising
- > Fresh food produce washing, misting, and crisping
- > Pool and Spa (replacing chlorine and eliminating acid)

### Key Customers

Satisfied clients in different sectors include Coca Cola, Abbott, Roche, Health Service Executive, NHS UK, Mercy Hospitals, Dublin Dental Hospital, Shell Chemicals, Qeally Group, Virgin Active, Bibby Line, and Local Authorities.

### Standards & Certifications

All Trustwater™ systems are CE and TÜV certified.

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## Whitelite Automation Ltd

### Value Proposition

Whitelite Automation Ltd was established in 1976 and is a global provider of turnkey solutions to the power, telecommunications, IT, pharmaceutical, Food & Beverage, industrial and commercial markets. The company working in partnership with its clients has delivered engineered solutions ranging from Control & Automation Systems to turnkey pre-fabricated Mechanical & Electrical Plantrooms. The company has an extensive install base spanning Europe, Asia, the Middle East and South America.

### Products & Services

- > Control & Protection Panels
- > MV & LV Switchgear
- > MCC Panels
- > Sub-distribution boards
- > Power Factor Correction
- > Automation (PLC & SCADA) Systems
- > Building Management Systems
- > Electrical Plantrooms
- > Mechanical Plantrooms
- > Telecommunications Plantrooms
- > Energy Centres & Solutions
- > Project Management
- > M&E Maintenance
- > Facilities Management

### Key Customers

- > ESB Networks
- > ESB Power Generation
- > ESB International
- > Northern Ireland Electrical (NIE)
- > Office of Public Works
- > Department of Communications
- > Mechanical Contractors such as Mercury, Winthrop, Kirby's, etc.

### Standards & Certifications

ISO9001:2000

### Contact Details

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