

Ireland & Northern Ireland

2013 Guide to Composting and Anaerobic Digestion



cré

Composting & Anaerobic Digestion
Association *of* Ireland

Who Produces the Guide?

The 2013 Guide to Composting and Anaerobic Digestion is produced and edited by the Cré – Composting and Anaerobic Digestion Association of Ireland.

What Does the Guide Cover?

The Guide lists information and contact details of organisations from the Ireland and Northern Ireland supplying services, goods and members of Cré. These include local authorities, consultants, compost facility operators, anaerobic digestion operators, waste management companies, trade and education institutions.

The Cré Team

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- ▶ Dearbháil Ni Chualain (Bord na Mona Horticulture)
- ▶ David McDonnell (Green Gas AD)
- ▶ Fiacra Quinn (Greenstreets)
- ▶ Martin Eves (Envirogrind)
- ▶ Munoo Prasad (Compost Research & Advisory)
- ▶ Patrick O'Toole (O'Toole Composting)
- ▶ Tim Duggan (Enrich)
- ▶ Tom McDonnell (Thornstons Recycling)
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- ▶ David McDonnell (Green Gas AD)
- ▶ Morgan Burke (Stream Bioenergy)
- ▶ Micheal Geary (FLI)
- ▶ Alan Reynolds (Greenfield Ventures)

Chairman - Martin Eves

Treasurer - Fiacra Quinn

Chair of the Technical Committee - Munoo Prasad

Chair of the Anaerobic Digestion Committee - David McDonnell

Executive - Percy Foster

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Cré – Composting & Anaerobic Digestion Association of Ireland, PO Box 13, Dundalk, Co. Louth Ireland t. 086 812 9260 e: info@cre.ie

FOREWORD

Dear Members,

It's that time of year again, when we evaluate what has been accomplished and our goals for 2013.

Like most industries, 2012 has challenged us financially with ever increasing costs and fluctuating fuel/energy prices resulting in constant pressure on our ability to return a sustainable margin. However it appears that everyone has come out of 2012 still intact and this is testament to your skills, ability and dedication to developing a sustainable sector.

The Cré "Market Report 2012" showed a growth of 45% in waste processed in the Republic of Ireland since 2009 and 25% in Northern Ireland. Unfortunately the benefits of this growth to the compost/AD sector has been diminished due to inherent cost pressures and the increased level of contamination and its subsequent removal/disposal.

Aware of our customers own financial burdens members have continued with innovative development of high value outlets for the compost produced, this diversifying of revenue streams has facilitated the reduction in gate fees. Members have kept gate fees low over the past number of years. Depending on material types to be processed current gate fees are now 30-80% lower than landfill or incineration.

This cost stability is vital to the waste sector and if we are to maintain such cost stability it is critical that:

1. *The level of contamination in feedstock is dramatically reduced, and*
2. *Tonnage of collected food waste increases.*

Without a concerted effort in these areas, many sites will have no option but to increase their fees to reflect their costs. We must also consider the damage to the marketability of our product and the ability of operators to stay involved in the CQAS. Education and policing are key to addressing these critical issues.

Credit must be given to the local authorities who have already committed scarce resources to education and the policing/managing of the Brown Bin Regulations. We must also acknowledge our colleagues in the Waste Industry who are already educating their customers and collecting Brown Bin. Given the imminent Domestic Brown Bin Regulations those in the sector who have an existing brown bin collection service will be better prepared to move forward with the introduction of the new legislation.

The government is preparing a new strategy for Bioenergy which must include a new "REFIT" to start immediately after "REFIT 3" closes in 2015. The benefits of AD to the Waste & Energy Sector has not as yet been fully taken on board by society so I urge all of you who have an interest to promote the benefits of AD to the public and the decision makers whose support we greatly need.

I would like to take this opportunity to thank Percy Foster and all my colleagues on the Board of Directors and the various committees within Cré for their hard work and diligence throughout the year. I would like to thank our members for their vital support and ask that you continue to back the work of Cré in whatever way you can - you will reap the benefits many times over.

Wishing you continued success for 2013.

Sláinte

Martin Eves

Chairman, January 2013

2012 Association Report

We would like to take this opportunity to update you on the work which has been done on behalf of Cré Members in 2012.

In 2012 some of Cré's key successes were:

- ▶ Landfill levy increasing to €65/tonne
- ▶ REFIT 3 for anaerobic digestion being implemented
- ▶ Extension of deadline for REFIT/HE CHP applications
- ▶ 8 events/training courses delivered
- ▶ 390 training days delivered to the industry

Some of the key highlights were:

Publication/Reports:

- ▶ Cré Newsletters x 6
- ▶ 2011 Guide to Composting and Anaerobic Digestion in Ireland
- ▶ Cré Market Report 2012' - a market report on the compost and anaerobic digestion sector which determined that the tonnes processed increased by 45% within two years in Ireland and 25% in Northern Ireland.
- ▶ 'Compost Trial Show Potential for Compost use in Golf Sector' - Cré and WRAP (Waste & Resources Action Programme) co-sponsored preliminary trials to investigate the use of high quality composted materials in the maintenance of golf fairways. The trials were undertaken at the K Club Golf Course, County Kildare, Ireland.
- ▶ New Cré website

Cré Held the Following Meetings and Events:

- ▶ National REFIT 3 Conference
- ▶ Planning for an Anaerobic Digestion Plant Training Course
- ▶ HACCP Training Course
- ▶ Anaerobic Digestion, Technical & Board Meetings
- ▶ AD NI 2012 –Northern Ireland AD Conference and Trade Show
- ▶ Food Waste Seminar, organised by stopfoodwaste.ie and foodwaste.ie
- ▶ Cre- Institute of Technology Sligo 'Certificate in Compost Facility Operation'
- ▶ Members Networking Meeting and General Meeting

Other Work

- ▶ 11 Policy Submissions
- ▶ 5 funding applications
- ▶ Garden Waste Listed in EU Transfrontier Shipments Regulations -Cré lobbied the Department of Environment on getting garden waste listed in the EU Transfrontier Shipment Regulations.
- ▶ Meeting with Several Government-Departments and Ministers on industry issues

A Guide to the Benefits of Membership of Cré

Technical Guidance & Support



We provide assistance on things such as responding to general technical queries, training and conferences. We provide technical advice on matters such as the Animal by Product Regulations, the Food Waste Regulations and the Renewable Energy Feed in Tarrif (REFIT).

Industry Information



To help members further their knowledge we supply:

- ▶ Newsletter every two months that keeps you up to date with the latest industry news
- ▶ Updates on Government Policy, regulations and reports
- ▶ Regular news bulletins by email
- ▶ Regularly updated websites- www.cre.ie & www.foodwaste.ie

Networking



Cré meetings give a chance to network and learn what Cré is doing on your behalf.

Opportunities to network are:

- ▶ Annual conference & exhibition
- ▶ European study tours to learn about leading edge technology
- ▶ Training days and meetings on specialist topics

To raise the profile and awareness of member companies, a number of unique opportunities only available from Cré, have been created for members including: a membership directory, sponsorship opportunities, circulation of tenders, advertisement of available jobs, annual conference, members meetings, networking events and developing business opportunities in Ireland and overseas.

The Voice of Industry



We work on behalf of our members to raise the status of anaerobic digestion and composting. Cré actively works with all relevant Government departments and agencies to assist them in understanding the issues affecting the sector and propose workable solutions, appropriate industry regulation, training and standards. We regularly make submissions to Government departments on issues relevant to our industry.

Cré actively works with the following department/agencies:

- ▶ Environment Protection Agency
- ▶ Department of Agriculture, Fisheries and Food
- ▶ Department of Environment, Heritage and Local Government
- ▶ Department of Communication and Natural Resources
- ▶ and other regulatory bodies to influence decisions in favour of our members.

Cré works closely with the European Compost Network to have representation at European Community level on biowaste issues and the Animal by-Product Regulations. In addition to consultation with regulators, Cré actively engages and informs key stakeholders that affect our industry, such as bodies representing sectors that produce waste and users of compost/digestate. Where possible Cré takes parts in Government working groups (e.g. Cré is a member of Government High Level Action group on Green Enterprise and the Department of Agriculture, Fisheries and Food Animal by-Product Forum).

Training



Cré has a strategy of developing and promoting good practice and excellence in the industry through training. With consultation with our members we developed a co-ordinated training programme for the industry.

- ▶ We deliver a wide range of courses. The cornerstone course is the internationally accredited Cré- Institute of Technology Sligo-Certificate in Compost Facility Operation

Research



Research is important to assist in the development of the industry. Examples of projects conducted are:

- ▶ "To Develop an Industry Led Quality Standard for Source-Separated Biodegradable Material Derived Compost", funded by the Environmental Protection Agency
- ▶ InterTradeIreland Market Report on the Compost and Anaerobic Digestion Sector
- ▶ Demonstration Trials on the Use of Compost as Top Dressing on the K Club Golf Course, funded by Cré and Waste and Resources Action Programme
- ▶ Availability of Nitrogen from Compost in Relation to the Nitrate Regulations, funded by the Environmental Protection Agency
- ▶ Availability of Phosphorus from Compost in Relation to the Nitrate Regulations, funded by the Environmental Protection Agency

Public Outreach



- ▶ We provide assistance on how to promote the brown bin and home/on-site and community composting
- ▶ We co-sponsor the "Tidy Towns Recycling Initiative Competition"
- ▶ We manage the national programme to promote Food Waste regulations – www.foodwaste.ie in partnership with the Department of Environment, Heritage and Local Government
- ▶ We organise the National Compost Awards which recognised the best in the industry

Additional Benefits

- ▶ Reduced delegate rates at events, study tours and training courses
- ▶ Inclusion in the association membership directory



Sustainable Wastewater Solutions Sustainable Water Solutions

Anaerobic Digestion Design – Build Operate Maintain

- AD project delivery with 15+ years experience
- Ireland & UK delivery partner for ADI® Systems Inc. Treatment Technologies
- Full turn-key capability incl. Design, Project Management, Installation, Operation and Maintenance across all sectors



Web: www.epswater.ie
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CRÉ EVENTS 2013

EVENT	DATE	LOCATION
National Composting and Anaerobic Digestion Conference	12th March	The Hamlet Hotel, Enfield, Co. Meath
International Compost Awareness Week	6 - 12 May	
Cré Industry Awards	10 May	Wateside Hotel, Donabate, Dublin
Members Networking Meeting	12 September	Killashee House Hotel, Naas
ADNI 2013	October	Belfast
Members Networking Meeting & General Meeting	25 November	Killashee House Hotel, Naas

Training Courses

- ▶ How Good is Your Compost?
- ▶ Planning for an Anaerobic Digestion Facility
- ▶ Certificate in Compost Facility Operation
- ▶ HACCP for Anaerobic Digestion and Composting Sites
- ▶ Health and Safety on Your Composting Site

Details on courses can be found on <http://www.cre.ie/web/eventstraining/>

Cré – Institute of Technology Sligo Certificate in Compost Facility Operation

To date nearly 100 people have graduated from this course since it was established in 2007. This course provides compost operators, regulators of facilities and anyone interested in starting a composting facility with the practical knowledge on how to compost properly, how to produce a high quality compost product and how to be compliant with all the regulations. The course was developed by Cré in co-operation with FÁS and Institute of Technology Sligo. The course allows participants to satisfy the general Environmental Protection Agency requirement for a suitably qualified and experienced facility manager to operate a licensed composting facility.

COMMENTS FROM PEOPLE WHO COMPLETED THE COURSE

- ▶ “From the site visits, I have taken different techniques on record keeping and house management to improve my existing site” Kevin McCabe, Enrich.
- ▶ “Our composting facility is just about to start operating and the course has given us virtually all the information and tools to ensure that we get off to a good start” Pete Murtagh, Sligo County Council.
- ▶ “We are at the start up stage-excellent for overall information” John Prunty, Preseco Ireland.
- ▶ “More than met expectations, excellently organised and delivered. The site visits were particularly useful and excellent to see some of the subjects/theory/equipment etc. in practice” Andrew Wilson, Ballymun Regeneration.
- ▶ “Difficult to make suggestions for improvements in what I consider the best of many courses I have attended” P.J. Phelan, Phelan Services.

METHODOLOGY: The course is delivered by a team of approved tutors who have extensive national and international experience in the field of composting/waste management. Students are required to complete site visit reports for each composting facility visited. A comprehensive training manual (300 pages) and copies of all presentation will be provided to everyone. It will be taught in classrooms and there will be site visits to a number of composting facilities, such as a large green waste composting facility (windrow technology), a small green waste composting facility and two food waste composting facilities (In- vessel / Animal by Product Facilities). Students will undertake an exam after the end of the course.

DURATION: The course will last 6 days, comprising three blocks of 2 days over a period of time.

CERTIFICATION: The course has been accredited by the Institute of Technology, Sligo (under delegated authority from HETAC). The Course is entitled “*Certificate in Compost Facility Operation*” (Special Purpose Award Certificate, Level 6, 10 credits).

APPLICATION FORM & FURTHER INFORMATION

Percy Foster, Cré, PO Box 13, Dundalk, Co. Louth Email: percy@cre.ie Tel: 086-8129260

The course will be organised once 15 people have booked.

Planning for an Anaerobic Digestion Facility

With the introduction of government incentives, such as ROCs (Northern Ireland) and REFIT (Ireland) for the production of renewable energy, anaerobic digestion (AD) is now a viable technology that offers huge potential for revenue generation for farmers and waste operators alike.

Anaerobic digestion produces a high energy containing gas, known as biogas, which can be used for green energy production. The technology is simple, yet robust, and well developed across the continent. AD is a new development for Northern Ireland and offers great opportunity for those who wish to enter the renewable energy market.

To facilitate the growth of the sector Cré has developed a "Planning for Anaerobic Digestion Facility" training course. The course is a highly intensive 2 day training course targeted specifically at projects in Northern Ireland and Ireland. The course will give participants a clear understanding of what anaerobic digestion is, basic design criteria, planning & regulatory requirements, grid connection, project economics, financing, and much more. The course includes a visit to an operational anaerobic digestion plant. The course will prepare participants wishing to develop anaerobic digestion plants and allow individuals to up skill in the area of Anaerobic Digestion.

The objective of the course is to educate individuals involved in anaerobic digestion, be it farmers, waste operators, planners, decision makers with all the knowledge to assist them in developing an anaerobic digestion project. The course will not allow participants to design their own plant but will provide them with sufficient knowledge when dealing with technology providers, government agencies, planners, banks, to make well informed decisions.

Comments from People Who Completed the Course in 2011:

- *"Just a short note to say well done on an excellent course in Adare. It was exactly what I needed and I came home very satisfied with two days well spent. The programme, its pace, the calibre of the speakers, the time for formal/informal discussion and all ancillary issues were of a top professional standard". Pádraig O'Kiely, Teagasc,*
- *"Good mix of attendees, very interesting presentations across the AD sector issues"*
- *"The course was good because of the amount of expertise available to answer questions"*
- *"Very informative, covers many angles, great for anyone considering involvement in anaerobic digestion"*
- *"The group exercises were great at demonstrating the effect of all the different variables on the process"*

All the people who completed the course were surveyed and said the course was value for money.

Intended For

Farmers – wishing to develop their own projects will now learn steps involved in getting a project off the ground. How to access their feedstock for biogas potential and if the project is economical.

Project Developers – for use in development of anaerobic digestion projects. The principles described in the course are designed to assist developers understand the basics of plant design and potential "red tape" that could slow down projects.

Waste Industry – wishing to develop their own projects will now learn steps involved in getting a project off the ground. How to access their feedstock for biogas potential and if the project is economical

Planners and Decision Makers- for use in understanding basic principles of anaerobic digestion plants. As planners and decision makers will gain a better understanding of what is required for successful plants, they will be better equipped to support planning applications for anaerobic digestion facility projects.

Consultants and Designers- for use in designing and assisting clients with the development of their anaerobic digestion projects.

Regulators and Enforcement Agencies- for use in understanding basic principles of anaerobic digestion plants, which will assist them in their role as regulators of anaerobic digestion facilities.

Individuals – Who wish to gain an understanding of anaerobic digestion

If you are interested in the course please Contact Percy Foster,
(percy@Cre.ie or 086 8129260). *The course will be organised once 15 people have booked.*

INSTITUTIONAL

Irish Prison Service

Building Services Division, Unit 2, Airways Industrial Estate, Dublin 17

Contact: Derek Chambers

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e. dpchambers@irishprisons.ie

w. www.irishprisons.ie

The mission of the Irish Prison Service is to provide safe, secure and humane custody for people who are sent to prison. The Service is committed to managing custodial sentences in a way which encourages and supports prisoners in their endeavour to live law-abiding and purposeful lives as valued members of society.

Institute of Technology Carlow

Kilkenny Road, Carlow

Contact: Dr Nabla Kennedy/ Dr David Ryan

t. 059 91 75000 f. 059 91 75005

e. Nabla.kennedy@itcarlow.ie

e. David.ryan@itcarlow.ie w. www.itcarlow.ie

EnviroCORE at Institute of Technology Carlow: Founded in 1970 the Institute of Technology Carlow has grown to a student population of close to 5,000 with a diverse portfolio of taught programmes including Level 9 (Masters) on the National Framework of Qualifications (NFQ) and a growing research portfolio to doctoral level (Level 10 NFQ) in the Sciences and Technology. EnviroCORE is a strategic research centre based at IT Carlow, focusing on research and enterprise in bio-environmental technologies. Key research themes/interests: Phyto and Microbial technologies for waste treatment, Biomass production and plant biotransformations, Biological components for environmental bioindicators/ biosensors, Environmental monitoring and risk assessment

Institute of Technology Sligo

Department of Environmental Science, Ballinode, Sligo

Contact: Billy Fitzgerald

t. 071 915 5284 f. 071 914 6802

e. fitzgerald.billy@itsligo.ie

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The Department of Environmental Science offers a number of courses at Higher Certificate, Bachelors Degree (Ordinary and Honours), Postgraduate Diploma and Masters in the area of Environmental Science, Occupational Safety and Health, and Applied

Archaeology. IT Sligo provides accreditation for the "Certificate in Compost Facility Operation" (Special Purpose Award, Level 6, 10 credits) which is run in association with Cré and FAS. The course provides training for operators, managers and regulators with the practical knowledge on how to compost properly, how to produce a high quality compost product and how to be compliant with legal requirements. The Department is also engaged in research at MSc and PhD level. Specialised accredited courses can be developed to suit a client's needs and delivered on a full-time, part-time or a distance-learning basis.

QUESTOR Centre, Queens University

Contact: Dr R. Elaine Groom

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w: http://questor.qub.ac.uk/

CONSULTANT I

Compost Research and Advisory

8A Woodlands, Naas, Co Kildare

Contact: Munoo Prasad

t. 045 948712 m. 086 601 2034

e. munooprasad@yahoo.com

Dr Munoo Prasad was Chief Scientist in Bord na Móna up to 2006 and Group leader, New Zealand Ministry of Agriculture till 1991. Dr Prasad has carried out a life time of research on composting on a wide range of organic waste and product development from compost. He is also a specialist in soils and plant nutrition. His research led to the facility for composting of 100,000 tonnes of organic waste. He has been involved in four EPA funded research projects one Rx3 (Department of Environment) AD project. He is associated with a number of national and international organisations such as the NSAI, CEN, Orbit, Teagasc (2000-2003, 2008 to present), IRCSET (2001-2006) Inst. of Technology, Carlow and Cyprus Research Agricultural Research Inst, Nicosia He is now available for consultancy in his field of expertise.

EOS Future Design

39 Windsor Road, Rathmines, Dublin 6

Contact: Emer O'Siochú/ Owenroe Lemass

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e. owenrow@eosfuturedesign.ie

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Energy Solutions

G12 Spade Centre, North King St, Dublin 7

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Energy Solutions is a professional energy services company providing expert advice and solutions on energy management and renewable and alternative energy sources. Our clients include the CER, SEAI, Veolia Water and RitzCarlton Hotels. We assist clients with all aspects of project development and operation from feasibility study to regulatory compliance, project management and implementation and monitoring and verification of performance. We have particular expertise in the certification of AD CHP and have assisted AD operators in applications for certification and can provide annual audited reports.

Duncan Laurence Environmental Ltd

Coolnagee, Forth Mountain, Wexford

Contact: Duncan Laurence

t: 053 9147709

e: duncan@duncanlaurence.com

Duncan Laurence Environmental Ltd specialises in Irish and EU environmental and planning legislation, waste policy and regulatory compliance issues. Established in 2000, it is centred on Dr Duncan Laurence's 20+ years of experience in waste management, which includes working as a regulator in the UK and also for the Environmental Protection Agency in Ireland.

Larchmont Consulting

Grove Avenue, Blackrock, Dublin

Contact: Jack O'Keefe

e: jackokeefe@larchmont.ie t: 086-2528572

Larchmont Consulting is a financial consultancy company whose focus is on the Renewable Energy Sector. It is comprised of professional advisors who have direct experience in structuring projects, Project Management, Due Diligence, Investment Appraisal, advice on funding of projects as well as fund raising for specific projects. We provide;

- Critical due diligence to ensure that the financial feasibility and project plan is robust and achievable.

- Liaison with promoters, EPC and O+M contractors, technical suppliers, lawyers and funders.
- Negotiating with bankers, funders and investors.
- Investigation and analysis of projects on behalf of promoters, funders and investors.
- Fund raising for individual projects.
- Cashflow preparation and financial analysis.

Mackin Consultancy

Unit 5, Mayfield Business Park, Old Youghal Rd, Cork
Terry Payne

e: terry@mackinconsultancy.com

w: www.mackinconsultancy.com

t: 021 4628112 f: 021 4559537

CONSULTANT II

Clean Technology Centre

Cork Institute of Technology, 53 Melbourne Road
Bishopstown, Cork City.

Contact: Colum Gibson

t: 021 4344864

e: Colum.gibson@cit.ie

w: www.ctc-cork.ie

The Clean Technology Centre is a not for profit environmental consultancy based in the Cork Institute of Technology. CTC specialises in waste prevention at all levels – household, commerce and industry – and currently runs the national Stop Food Waste campaign, the Green Hospitality Award and manages the Local Authority Prevention Network. CTC also engages in research at national and EU level.

Clyde Shanks

Cork Institute of Technology, 53 Melbourne Road
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Clyde Shanks is a refreshingly new planning consultancy, based in the heart of Belfast. We guide development projects of all types and scale through an increasingly complex and ever changing planning process. We offer what we think clients want in a planning consultancy - a passionate desire to achieve exceptional results, incisive and innovative thinking,

and an unerring commitment to get it right. We like what we do and want our clients to like working with us. We take time to understand client aspirations and needs. Our expertise lies in translating these into realistic strategies to achieve planning success. If you are planning development, we would love to talk to you.

Certification Europe

Block 20a Beckett Way, Park West Business Park, Dublin 12

Contact: Andrew Cartwright

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t: 01 6429300 **f:** 01 6205535

w: www.certificationeurope.com

w: www.cqas.ie

Certification Europe is an accredited certification body which provides International Organization for Standardization (ISO) management system certification and inspection services to organisations globally. ISO Standards provide a recognised framework to achieve best practice management. Certification Europe can certify your organisation to Quality, Environmental, Health & Safety, Energy, Sustainable Event Management, Business Continuity, IT Service Management and Information Security Management. The company currently assesses over three thousand organisations internationally on an annual basis. Clients range from micro enterprise to multinationals and include Government Departments, State Bodies and private organisations. Headquartered in Dublin, Ireland, Certification Europe has additional operations in the United Kingdom, Italy, Turkey and Japan.

Eversheds O'Donnell Sweeney

One Earlsfort Centre, Earlsfort Terrace, Dublin 2

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e: mvarian@eversheds.ie **w:** www.eversheds.ie

Eversheds O'Donnell Sweeney is a full service commercial law firm with a business-like approach. Based in the heart of Dublin's commercial district, our practice focuses on supporting the business growth and expansion of our clients. We advise indigenous owner-managed companies as well as international and multinational companies, banks, financial institutions and public organisations.

We work with some of Ireland's largest, most successful and progressive companies as well as many exciting and innovative smaller companies. What is really important to us is that every client receives

personal attention, dedicated service and the most appropriate integrated advice. As service providers to the business community and to the public sector, we believe we can add greatest value where our advice is grounded in a business view. Our association with Eversheds International means we can provide a seamless service right across Europe, Asia, Africa and the Middle East. At local or international level, we aim to help all our clients in achieving their commercial objectives.

Fehily Timoney & Co

Unit 16, North Park Offices, North Park, Dublin 11

Core House, Pouladuff Road, Cork, Co. Cork

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w: www.fehilytimoney.ie

Fehily Timoney & Company (FTC) is one of the larger Irish-owned independent consultants in Engineering and Environmental Science in the Irish market. Its areas of specialist expertise in waste management, transportation, water services, and environment are recognised as Centres of Excellence. The company also delivers a wide range of engineering and scientific disciplines in, strategic environmental assessment (SEA's), ecological studies, integrated pollution control, nutrient management, and geographic information systems. FTC is a client-focused organisation, dedicated to excellence in the delivery of its projects. It achieves this through maintaining a broad range of in-house engineering and scientific disciplines. It strives towards the highest professional standards through our Accredited Continuing Professional Development Programme (CPD Engineers Ireland) and its quality system to ISO 9001:2000 (National Standards Authority of Ireland).

Greenstreets Environmental Resources Ltd

U25, GEC, Taylor's Lane, Dublin 8

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w: www.greenstreets.ie

Since 2000, Greenstreets has been providing a unique mix of Consultancy, Software and Training for our customers, helping them meet their reporting requirements under various environmental Waste Regulations. These include Packaging, WEEE & RoHS, End of Life Vehicles, Waste Tyres and Waste Batteries

and our goal has always been to provide cost effective, impartial and expert advice to our clients. Greenstreets also performs waste prevention and waste minimisation audits. We are active in producing waste management plans for both small and large companies and in assisting company's compliance with the Food Waste Regulations. Greenstreets established a Carbon and Energy Management division to help organisations manage their energy costs and reduce carbon outputs. We have offices in Dublin and Melbourne and are delighted to have clients which include international PLCs, multinational companies, Irish companies, family businesses, and trusts.

ORS

ORS Building, Marlinstown, Mullingar, Co. Westmeath

Contact: Damien Collins/Finbarr Stuart

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ORS provide sustainability business advice in a climate of change. Our aim is to create value for our clients by combining technical excellence and business acumen with in-depth knowledge of our clients industries. We offer an applied multi-disciplinary approach to the safe and sustainable development, management and monitoring of the natural and built environment with a team of qualified energy professionals, building engineers, hydrologists and transport and environmental engineers. Services provided cover all aspects of the renewable energy sectors including planning, engineering services, health & safety and facility validation.

OCAE Consultants Ltd

Ballinderry House, Enfield, Co Meath.

Contact: David O'Connell

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e. david@ocae.ie **w.** www.ocae.ie

OCAE provides agricultural and environmental consultancy to its farmer and industry clients. Environmental consultancy is predominantly provided to clients in the food-and-drinks industry preparing Nutrient Management Plans and Waste Management Permit applications as well as other services. The company also carries out agricultural research and provides contracting services.

Odour Monitoring Ireland

Unit 32 De Granville Court, Dublin Road, Trim, Co Meath

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e. info@odourireland.com

w. www.odourireland.com

Odour Monitoring Ireland provides a professionally tailored odour and bioaerosol measurement service, odour and bioaerosol dispersion modelling service, biological and physical abatement design/installation service to both the public and private sectors. Additionally, the company can provide air, odour and bioaerosol risk assessment for any facility in accordance with regulatory agency requirements. Additional services provided by the company include life cycle analysis (LCA cradle to grave), specialised air monitoring techniques, meteorological station design, set-up, odour abatement, troubleshooting, and optimisation. Recently, Odour Monitoring Ireland has become involved in isolating specific technologies to help reduce costs in the composting sector and to improve overall finished compost quality. Its aim is to provide a complete service from start to finish including measurement, predictive impact assessment, and isolation of abatement technologies keeping both operational and capital costs in mind in an ever-increasing expensive environmental society.

O'Connor Sutton Cronin

113 The Mount, Belfast, BT5 4ND

Contact: David Fletcher/Michael O'Reilly

e. David.fletcher@ocsc.co.uk

e. Michael.oreilly@ocsc.ie

w. www.ocsc.co.uk

t. 0044289024444 (David)

t. +353 (1) 8682000 (Michael) **f.** 00442890244442

OCSC are a multidisciplinary consulting engineering practice with offices in Dublin, Belfast, Cork, Galway, London and Glasgow. We offer civil, structural, mechanical and electrical engineering services for a broad range of industries including renewable energy. We are currently working on a number of Anaerobic Digester plants in Ireland and the UK. We can provide engineering design services throughout the scheme development. This is vital for planning issues, costing and construction. Our clients cover a wide range of industries that are either involved in the renewable

energy industry or are currently considering how it could work for them. Please feel free to contact us to see how our services could help you.

O'Callaghan Moran & Associates

Granary House, Rutland Street, Cork.
Contact Jim O'Callaghan/ Michael Watson
e. jim@ocallaghanmoran.com
e. michael@ocallaghanmoran.com
w. www.ocallaghanmoran.com
t. 021 4321 521 **f.** 021 4321 522

OCM is a leading environmental consultancy with particular expertise in waste management., including composting and anaerobic digestion plants. Our services are based on in-depth knowledge of national and EU regulations, best industry practice and direct experience gained from over 15 years of service delivery. The services provided include strategic planning advice; site selection, design and construction supervision; preparation of Waste Licence and Permit applications; waste characterisation studies; environmental monitoring, and regulatory compliance assessments/reports, including Energy Audits, Environmental Liability Risk Assessments, Decommissioning Management Plans and Fire Water Retention Assessments.

RPS Group

Waste & Energy Section, West Pier Business Park, Dún Laoghaire, Co Dublin
Contact: Katie O'Neill
t. 01 488 2900 **f.** 01 283 5676
e. katie.oneill@rpsgroup.com
w. www.rpsgroup.com/ireland

RPS is a leading planning, environmental, engineering and communications consultancy, employing 4,750 staff internationally, with over 650 talented people on the island of Ireland in offices in Dublin, Cork, Galway, Belfast, and Letterkenny. RPS offers consultancy services to public and private sector clients, in all aspects of waste and resource projects including site selection, facility design and planning, EIS, procurement management, licence/permitting applications and compliance, resource market development and public consultation. RPS has assisted clients on waste and resource projects including waste prevention, reuse, recycling, composting, anaerobic digestion, waste-to-energy, MBT, landfill and novel technologies.

SKM Enviros

Regus House, Harcourt Centre, Harcourt Road
Dublin 2

Contact: Ultan Downes
t: +353 (0) 86 7917389 **f:** +353 (0) 1 405 3958
e: udownes@globalskm.com
w: www.globalskm.com

At SKM Enviros, we provide the ultimate one-stop-shop for organic waste management. Our aim is to save you time and money by streamlining the development process. We can cover all aspects of the process from concept to construction:

- Waste Flow Analysis
- Feasibility Study
- Site Selection
- Bespoke Technology Design, or Independent Technology Review
- Planning and Permitting
- Procurement and Tender Evaluation
- Contract Management
- Training
- Product Development
- Marketing Strategy.

SLR Consulting

7 Dundrum Business Park, Windy Arbour, Dublin 14
Contact Conor Walsh/Alan Mitchell
t. 01 2964667 **f.** 01 296 4676
e. cwalsh@slrconsulting.com
e. amitchell@slrconsulting.com
w. www.slrconsulting.com

SLR is a leading international environmental consultancy with offices in Ireland, the UK, the US, Canada and Australia. SLR has over 30 professional staff based in Ireland at its Dublin and Hillsborough offices. The company specialises in waste management strategy and technologies and provides consultancy services to all the major waste management firms in Ireland and the UK as well as to many local authorities and government bodies. SLR is currently assisting a number of Irish companies with development of composting, AD and MBT facilities.

Tobin Consulting Engineers

Block 10 – 4, Blanchardstown Corporate Park,
Dublin 15

Contact: Damien Grehan
t. 01 803 0401 **f.** 01 803 0410
e. damien.grehan@tobin.ie **w.** www.tobin.ie

TOBIN Consulting Engineers have been providing engineering solutions in Ireland since 1952. With over

110 staff working in our offices in Galway, Dublin, Limerick, Castlebar and Dundalk we provide engineering services nationwide to public and private clients. We have also recently opened a new office in Krakow, Poland. TOBIN provides Project Management services and we can offer extensive knowledge of the new forms of contract. TOBIN is constantly planning for the future and we are tailoring our CPD to drive our approach to sustainability to meet the future needs of our clients. Our areas of expertise include Water Services, Structural Engineering, Roads & Transportation, Energy, Waste Management, Environmental Engineering, Project Management, Building Services and PSDP. TOBIN Consulting Engineers has significant experience in contributing to and managing many complex environmental assessments for a variety of projects including: Commercial Projects, Housing Developments, Marine/Estuarine Development, National Roadways, Quarries, Waste Management and Recovery Facilities, Waste Water Treatment Works and Energy Projects.

LOCAL AUTHORITIES

Carlow County Council

County Buildings, Athy Road, Carlow, Co Carlow

Contact: Fionnghuala Ryan

t. 059 9136240 f. 059 9138098

e. fryan@carlowcoco.ie w. www.carlow.ie

Carlow County Council is responsible for the administrative area of County Carlow, excluding Carlow town. The Council is responsible for the planning, design and construction of many important infrastructures. These include roads, water supply, drainage facilities and certain social and quasi-social services, such as housing, fire stations, libraries, and burial grounds. It is the custodian of the environment and through its planning and environment policies seeks to enhance the county while protecting its unique character and atmosphere. It plays an active role in the development of the county's industrial, business, social, arts, heritage and cultural affairs.

Cavan County Council

Courthouse, Cavan, Co Cavan

Contact: Michael Mussi

t. 049 437 8410 Ext. 8416

f. 049 433 2299 e. mmussi@cavancoco.ie

w. www.cavancoco.ie

Cork City Council

Environment Directorate, City Hall, Cork

Contact: Mary Walsh

t. 021 4924307 f. 021 4924006

e. Mary_Walsh@corkcity.ie

w. www.corkcity.ie

Dublin City Council

Engineering Department, Waste Management Services, Civic Offices, Wood Quay, Dublin 8

Contact: Sandra Smith (brown bin service)

e. sandra.smith@dublincity.ie

t. 01 222 4562 f. 01 454 4830

w. www.dublincity.ie and www.dublinwaste.ie

In September 2006, Dublin City Council introduced a pilot kerbside collection of organic waste to 8,000 households. This was the first phase of the implementation of the National Biodegradable Waste Strategy in the city and helps to achieve targets set out in the Waste Management Plan 2005-2010. The next phase of the rollout began in February 2008 and to date 105,000 householders across the City have been provided with a brown bin and kitchen caddy for the collection of household organic waste and garden waste. Prior to the commencement of the collection service, each householder received a notification letter stating that they shall be receiving a new brown bin within the forthcoming days, the collection days and the charging system. Each household was also provided with an information leaflet detailing the types of waste accepted in the Brown Bin (please see attached) Furthermore, in 2008 8,287 tonne and in 2009 16,129 tonne of organic material was diverted from landfill as a result of householders using their brown bin.

Dún Laoghaire- Rathdown County Council

County Hall, Dun Laoghaire, Co Dublin

Contact: Michael Whelan/Margaret Coles

t. 01 205 4700 f. 01 205 4736

e. mwhelan@dlrcoco.ie

e. mcoles@dlrcoco.ie

w. www.dlrcoco.ie

Donegal County Council

The Kube, Magheranan, Letterkenny, Co Donegal

Contact: Suzanne Tinney/David Friel

t. 074 91 76276 / 074 91 76274 f. 074 91 61304

e. suzanne.tinney@donegalcoco.ie

e. dfriel@donegalcoco.ie w. www.donegalcoco.ie

Fingal County Council

P.O. Box 174, County Hall, Swords, Fingal,
Co Dublin
Contact: John Daly
t. 01 890 5000 w. www.fingalcoco.ie

Meath County Council

Environment Section, County Hall, Railway Street,
Navan, County Meath
Contact: Declan Grimes/Peter Brady
t. 046 909 7000 f. 046 909 7001
e. dgrimes@meathcoco.ie
e. pbrady@meathcoco.ie w. www.meath.ie

North Tipperary County Council

Civic Offices, Limerick Road, Nenagh,
Co Tipperary
Contact: Micheal Woulfe
t. 067 44786 f. 067 32260
e. mwoulfe@northtippcoco.ie
w. www.northtippcoco.ie

South Tipperary County Council

Emmet Street, Clonmel, County Tipperary.
Contact: Ann Peters
t. 052 26149 f. 052 34391
e. ann.peters@southtippcoco.ie
w. www.southtippcoco.ie

Westmeath County Council

Environment Section, Bishopsgate Street, Mullingar,
County Westmeath
Contact: Pat Keating
t. 044 933 2226 f. 044 938 4239
e. pkeating@westmeathcoco.ie
w. www.westmeathcoco.ie

All households in County Westmeath which have a regular kerbside refuse collection service, whether Council or private operator, are served by a two-bin system, with separate collections of recyclable materials and residual waste, paid for by a tag/pay-as-you-throw system. The majority of households in Westmeath are served by the Council, through a private contractor operating under Contract to the Council. The Council currently operates a pilot organic brown bin waste collection scheme, serving approximately 1,000 houses in Mullingar, with the collected material being treated at Johnstown Recycling, an in-vessel composting facility in Mullingar. It is planned to extend the collection of organic waste in 2009, in line with the objectives of the Midland Region Waste Management Plan.

Wexford County Council

Environment Section, County Hall, Wexford
Contact: Tadhg O'Corcora
t. 053 76312 f. 053 24852
e. tadhg.ocorcora@wexfordcoco.ie
w. www.wexfordcoco.ie

PROCESSOR I

Athchúrsáil Árann Teoranta

Eochail, Inis Mór, Oileáin Árann, Cuan na Gaillimhe.
Contact: Gerry Mullin
e. athchursailarann@hotmail.com
w. www.aranisland.com
t. 099 61949 f. 099 61900

Athchúrsáil Árann Teoranta is a small recycling company set up by Comharchumann Forbartha Árann and Galway County Council. Currently Athchúrsáil Árann Teoranta is updating the composting facility to comply with the Animal by Product regulations.

Clare County Council

Environment & Emergency Services Directorate Áras Contae an Chláir, New Road, Ennis, Co Clare
Contact: Maeve Ryan
t. 065 684 6331 f. 065 684 6444
e. mryan@clarecoco.ie w. www.clarecoco.ie

Environment & Emergency Services Directorate incorporates the trialling of green waste composting at the central waste management facility, Ballyduff Beg Inagh, County Clare.

Cremin's Farm Compost

Coolaleen, Broadford, Charleville, Co Limerick
Contact: Maurice Cremin
t. 063 84292 / 087 130 7621
e. mgcremin@eircom.net

Green King Composting

Coolbeg, Co Wicklow
Contact: Paddy King/Ian Browne
t. 0404 62422 f. 0404 68846
e. paddy@greenking.ie e. ian@greenking.ie
w. www.greenking.ie

Green King Composting operates a composting facility at Coolbeg, County Wicklow. The green waste received comprises of wood wastes generated by the King Tree Service tree surgery business, garden; park waste produced during improvement, and

maintenance works by landscape gardeners; grass and shrub trimmings produced by individual householders, and timber and wood waste recovered during construction and demolition works. The composting operation involves pre-treatment to shred and mix the green waste, composting in open windrows, maturation and post-treatment to remove impurities. The finished product is suitable for horticultural and agricultural use.

Johnstown Recycling

Slanemore, Mullingar, Co Westmeath.

Contact: Michael Dolan

☎ 086 259 9165

e. info@johnstownrecycling.com

w. www.johnstownrecycling.com

Johnstown Recycling operates an in-vessel composting facility at Mullingar, County Westmeath.

Limerick County Council

County Hall, Dooradoyle, Limerick

Contact: Diarmuid Sheehy

☎ 061 496 402 ☎ 061 496 008

e. dsheehy@limerickcoco.ie

Limerick County Council has built a purpose-built open windrow facility for the production of compost material at Mungret, Co Limerick. This is located beside the recycling centre. The equipment located at this facility includes a mulcher, a turner and a trommel. The operation commenced in 2005 and it has been found to have grown every year since. With the current operation, all green waste is taken from the three recycling centres at Mungret, Kilmallock and Newcastle West.

Marine Harvest Ireland

Kindrum, Letterkenny, Co Donegal

Contact: Catherine McManus

☎ 074 91 59 071 ☎ 074 91 59 077

e. catherine.mcmanus@marineharvest.com

w. www.marineharvest.com

Marine Harvest Ireland is a fully integrated salmon farming, processing and sales company which produces Premium and Organic Atlantic salmon under the brand names *Donegal Silver* and *The Organic Salmon Company*. The company employs 265 staff in its breeding, hatching, on-growing, processing and sales facilities.

Paul & Bronwyn Mooney

Kealstown, Maynooth, Co. Kildare.

Contact: Paul Mooney/Bronwyn Mooney

e. Paulmooney1218@gmail.com ☎ 087 2350425

Paul and Bronwyn Mooney operate a composting and recycling facility near Maynooth, Co. Kildare.

Sligo County Council

Unit 9 Cleveragh Business Park, Sligo, Co Sligo

Contact: Pete Murtagh

☎ 071 911 1910 ☎ 071 911 1924

e. pmurtagh@sligococo.ie

w. www.sligococo.ie

Sligo County Council operates with Ballisodare Community Council a greenwaste composting site.

Terralift Ireland Ltd

18 The Grove Market Deeping, Peterborough, PE6

8AW, United Kingdom

Contact: W. Rex Kimberley

☎ 00 44 1778 380 005

☎ 00 44 1778 348 835

e. rex.kimberley@terralift.ie

Terralift specialises in organically built fertilisers for the sports turf market with production facilities in Ireland, Australia and China. In sourcing raw-material needs each facility engages in the composting of manures and vegetable matter. The company holds the rights to a closed vessel thermophilic digestion plant, the first of which is located at our Castleblayney, Co Monaghan facility. This thermophilic digestion plant has been designed to accept catering and brown bin waste. The technologies incorporated in the new plant will clear incoming waste of contaminants and bio-convert the organic content to mature compost in 76 hours.

V&W Recycling

Newry Road, Dundalk, Co Louth & Mell Road Drogheda Co Louth

Contact: William Martin

☎ 042 932 9200

e. vandwrecycling@eircom.net

w. www.vandwrecycling.ie

State-of-the-art recycling centres in Dundalk and Drogheda. A green waste composting plant is operated at Dundalk.

PROCESSOR II

Barna Waste & Recycling

Carrowbrowne, Headford Road, Galway
Contact: Damien Monaghan (Compost Manager) /
Sean Curran (Managing Director)
t. 091 771 619 f. 091 771 735
e. dmonaghan@barnawaste.com
e. scurran@barnawaste.com
w. www.barnawaste.com

Barna waste is a Galway based company servicing all five counties in Connacht. Our Headquarters is strategically located approximately 4 miles outside of Galway City. The site is EPA licenced and ISO14001 accredited. It includes a composting facility licenced to process up to 20,000 tonnes annually to a European Standard. We are currently going through validation from the Department and Agriculture Fisheries and Food. Transfer stations also located in Ballagherreen (Roscommon), Athlone (Westmeath) and Drumshando (Leitrim). Barna accepts domestic and commercial food waste. Barna has a full range of commercial / domestic waste and recycling services, domestic/commercial/construction skip hire, sludge and sewerage services.

CTO Environmental Solutions Ltd

Rostellan, Middleton, Co Cork
Contact: Aidan Stafford
t. 021 465 2175/087 997 7022
f. 021 4652175 e. ctoenv@eircom.net

- Compost site operators accepting greenwaste in Cork City and Rostellan, and a selection of source segregated waste in Rostellan
- Compost sales
- Consultancy service
- Shredding contracting
- Timer recovery site operator
- Compost turning contracting
- Screening contracting: compost and soil
- Timer and greenwaste shredding
- Waste timber accepted at Kinsale Road Facility Cork

Custom Compost

Ballyminnaun Hill, Gorey, Co Wexford
Contact: Mark Walsh
t. 053 942 1777 f. 053 942 1059
e. info@walshmushrooms.ie

w. www.walshmushrooms.com

Custom Compost is the composting operation of the Walsh Mushroom Group. It is the single biggest and most advanced mushroom composting facility in

Ireland or the UK and has been in business since 1979. Agricultural Supply Co (Fairford) Ltd is also a part of the Walsh Group and is already PAS100 compliant for its green waste composting. It is also involved in waste compost consultancy. The Walsh Group is developing the waste composting arm of its business and with its considerable facilities and decades of management experience is excited about opportunities therein.

Envirogrind Ltd

Donegal Road, Pettigo, Co Donegal
Contact: Martin Eves
t. 071 986 1772 f. 071 986 1731
e. info@envirogrindltd.com
w. www.envirogrindltd.com

First established in 1997 as a Wood & Green Waste Facility, Enviro Grind Ltd operate an ABP approved Category 3 In-Vessel Composting Facility and provide an Organic Waste Collection Service, suitable for the kitchens/canteens of large institutions, the hospitality industry and food retailers. Acceptable feedstock includes by-products/residues from the Catering Industry, Pre & Post Food Processing, Fish & Shellfish Processing, some sludge material and Green/Garden & Park waste. Enviro Grind also process wood & gypsum residues. Our product range includes Bark & Coloured Mulches, Compost, Top Soil & Growing Mediums blended to customer requirements. We also supply Agricultural/Equestrian Bedding Chips. Delivery is available countrywide and Trade Enquiries welcome. Suppliers of ERGS Gypsum Recycling Solutions.

'Environmentally friendly products from wood and organic residues'

Galway City Council

City Hall, College Road, Galway
Contact: Theo McLoughlin
t. 091 536463 f. 091 568146
e. theo.mcloughlin@galwaycity.ie
w. www.galwaycity.ie

Local authority involved in provision of waste services including centralised composting facility at Carrowbrowne. The facility got its Department of Agriculture, Fisheries and Food ABP licence on the 1st July 2009.

GreenGas AD Plant

Dunmoylan, Shanagolden, Co. Limerick
Contact: David McDonnell/Darina Hannan
t: 069 60404 f: 069 60405
e: david@greengas.ie e: darina@greengas.ie
w: www.greengas.ie

GreenGas AD Plant (trade name of McDonnell Farms Biogas Limited) is a farm based anaerobic digestion facility. Located outside Shanagolden in Co. Limerick adjacent to the family farm, Greengas AD Plant has recently become operational having progressed through the final stages of testing and validation with the Department of Agriculture. The plant processes dairy and poultry manure and imported feedstock such as hatchery waste and dairy sludge. The biogas produced in the anaerobic digestion process is used as fuel in a CHP Unit. The resultant electricity produced is sold to the national grid and the heat generated recycled for heating use in both Plant and the nearby poultry enterprise. The processed digestate is used on local farm land as a high quality eco fertiliser.

Ormonde Organics

Ballacken, Attanagh, Via Portlaoise, Co Kilkenny
Contact: Martin Morrissey/Michael Murphy
t. 056 883 0300 f. 056 883 0310
e. mmurphy@ormondeorganics.ie
w. www.landorganics.ie

The Ormonde Organics Group is Ireland's largest and leading organics and sludge management company. Ormonde Organics operates under two brand names, *Ormonde Environmental* and *Land Organics*. We have our own in-house team of environmental scientists who are experts in this area. This combined with our extensive range of environmental and land-spreading equipment and knowledge means that we offer a leading-edge service which is fully compliant with all national and EU legislation. Land Organics provides a cradle to grave service services for the following: land spreading of organic waste to agriculture or industrial crops, land remediation or restoration of tailings ponds, lime stabilisation and composting. We work closely with each customer, creating a tailored solution to meet their requirements.

M&T Plant Hire Ltd

Davidstown Enniscorthy, Co. Wexford
Contact: Liam O'Neill/ Pat Redmond
t: 0539247770 f: 053 9247951
e: loneill@mtplanthire.ie
e: predmond@mtplanthire.ie
w: www.mtplanthire.ie

M&T Plant Hire Ltd., a wholly owned local Irish company, was founded by Tom Murray in 1980. Initially the company was set-up to hire out waste water treatment equipment. From small beginnings, the company quickly grew by diverging into various

other specialist areas from drain cleaning, sludge transportation, CCTV surveying and there new compost facility in Co Wexford. Today over 20 people are employed by M&T, mainly based out of the head office in Davidstown, Enniscorthy, Co. Wexford with offices also in Carlow and Waterford. We provide a committed service in Wexford, Waterford, Carlow, Kilkenny and Wicklow.

PROCESSOR III

Acorn Recycling

Ballybeg Composting Facility, Littleton,
Co. Tipperary
Contact: Ronan Beasley/ Sam Bowden
t. 0504 33721 f. 0504 33703
e. ronan@acornrecycling.com
e. sam@acornrecycling.com
w. www.acornrecycling.com w. www.aqssolutions.ie

Acorn Recycling is an environmental services company specialising in the treatment of organic wastes. Since 2010, Acorn Recycling has operated an EPA licensed and DAFF regulated ABP (EU standard) processing facility. We have invested in technology which allows us to effectively process brown bin and commercial food waste and other organic wastes including sludge. The plant can process 35,000 tonnes of waste per annum. Compost produced from the facility is used in horticulture and local agricultural applications.

McGill Environmental Systems (Irl) Ltd.

Coom, Glenville, Co. Cork
Contact: Fiona O'Sullivan
t. 021 4880945 f. 021 4880961
e. fosullivan@mcgillcompost.com
w. www.mcgillcompost.com

McGill operates three state-of-the-art Composting Facilities in Cork and Waterford which are EPA licensed and Local Authority Permitted to process in excess of 40,000 tonnes per year. One of the Cork facilities, at Glenville, is also permitted by the Department of Agriculture, Food and the Marine to process Animal By-Products (ABP). The company currently specialises in the composting of non-hazardous industrial and sewage sludge's, and other non-hazardous biodegradable materials. The company also biologically treats organic fines, which have been mechanically separated from municipal waste, in order that they can then be sent to landfill without the environmental risk associated with untreated municipal waste.

Miltown Composting

Miltownmore, Fethard, Co. Tipperary

Contact: Derry Murphy

t. 052 6130815

e. derry@miltowncomposting.ie

OD Recycling Ltd

Ballyboe, Kilsheelan, Clonmel, Co Tipperary

Contact: Patrick O'Donnell

t. 052 33293/087 233 3429 f. 052 33867

e. odrecycling@eircom.net

O'Toole Composting Ltd

Ballintrane, Fenagh, Co Carlow

Contact: Patrick O'Toole

t. 086 264 7990/059 914 8984

e. patrick@otoolecomposting.ie

w. www.otoolecomposting.ie

O'Toole Composting Ltd provides a specialist composting service for all food and organic wastes for all sectors of industry which include food production companies, waste contractors, Local Authorities, hotels, restaurants and canteens. We specialise in management of bulk food and organic waste recycling using our purpose built in-vessel tunnel composting facility in Carlow. Our facility has an Animal-By-Products licence from the Department of Agriculture, Fisheries and Food. We can provide all transport and staff training necessary to maximise full capture of all biodegradable waste.

Waddock Composting Ltd

Kilmaster, Carlow.

Contact: Barry Waddock

t. 087 7489737/0599163596 f. 059 916 3597

e. barry@waddockcomposting.ie

Waddock Composting has been operating an in-vessel composting facility at Killamaster, County Carlow since 2005. Due to recent extensive building developments we now can accept up to 20,000 tonnes of non-hazardous biodegradable material such as catering waste, food factory waste, brown-bin foodwaste, brewing extracts green/garden & park waste and sludge for composting in a purpose built state of the art facility. The end product is a high-quality compost which is distributed to landscapers, the local authority, contractors and gardeners. Nutrient management plans are drawn up by Agricultural consultants to ensure usage of compost

is optimized. This facility has an Animal-By-Products Permit from DAFF (Department of Agriculture, Fisheries and Food) and is permitted by our Local Authority.

PROCESSOR IV

Enrich Environmental Ltd

Larch Hill Stud, Kilcock, Co Meath

Contact: Tim Duggan/Kevin McCabe

t. 087 288 6182/ 086 839 2508

f. 01 822 8745 e. tim@enrich.ie w. www.enrich.ie

Enrich is the leading specialist in the recovery of green matter and manufacture of soil improvers. By concentrating exclusively on green material, Enrich can provide the most cost-effective management option for this material stream. Our facility in Kilcock, Co Meath accepts all green material. Enrich also provides a comprehensive collection service for green material. Once on site, green material is composted in windrows and used as a component for different landscaping products. These include soil conditioners, mulch, compost, topdressings, topsoil, and erosion control barriers. Customised mixes can be made to suit specific individuals. *"In nature nothing is wasted. The by-product of one activity becomes the input for another".*

Thornton's Recycling Ltd

Kilmainhamwood Compost Ballynalurgan,

Kilmainhamwood, Kells, Co Meath

Contact: Tom McDonnell

t. 01 623 5133 f. 01 623 5131

e. tom@thorntons-recycling.ie

w. www.thorntons-recycling.ie

Kilmainhamwood Compost, part of the Thorntons Recycling Group, is the largest fully enclosed composting facility in Ireland. It is a key component of the Northeast Waste Management Plan helping the north-east region to reach its reduction of biodegradable waste to landfill and recycling targets. The facility is licensed by the EPA, W0195-01 and Department of Agriculture, Comp-6, to accept 20,800 tonnes of non-hazardous biodegradable material such as catering waste, green waste, brown-bin food waste and sludge for composting. When the material arrives on site, it is mixed with seed compost and other carbon additives and placed in an aerated composting bay where it is turned and processed for 8 to 10 weeks. The resultant product is high-grade compost which can be used as an organic soil conditioner/fertiliser in commercial farming and landscaping. Kilmainhamwood Compost can also supply the

compost in bagged format if required. In 2007, the facility was accredited with ISO 14001, ISO 9001, and ISO 18001 and was also awarded *Best Composting Facility 2008* at the Cré Industry Awards 2008.

PROCESSOR V

Bord na Móna

Main Street, Newbridge, Co Kildare
Contact: Dearbháil Ní Chualáin
t. 045 439 520 f. 045 433 240
e. dearbhail.nichualain@bnm.ie w. www.bnm.ie

Bord na Móna's mission is to be Ireland's leading environmentally responsible integrated utility service provider encompassing electricity, heating solutions, resource recovery, water, horticulture, and related services. Our Kilberry composting facility in Kildare is central to our peat dilution strategy. The site is licensed to manage 96,000 tonnes of greenwaste, by-products from wood processing, brewing and other similar biomass. We are fully EPA compliant and generate some of the very best composted material in the industry. We will, with the assistance of our Research and Development department, continue to investigate new materials as potential additions to our current intake and to develop world-class innovative outputs. We are happy to facilitate our Cré colleagues with any analysis which they may require in this area.

Natural World Products Ltd

91 Moy Road, Portadown, Co Armagh BT62 1QW
Contact: Caolan Woods
t. +44 2838 353 555 (Rol 048 38 353 555)
f. +44 2838 353 556 (Rol 048 38 353 556)
e. caolan.woods@nwp-recycle.com
w. www.nwp-recycle.com www.roseylee.com

Natural World Products (NWP) was established in 1989 by Brendan Woods. NWP has been recycling green waste for Local Authorities in Northern Ireland and from the Republic of Ireland during this period to produce good quality compost under the brand name *Rosey Lee*. NWP has become the first compost producer in Northern Ireland to achieve certification from The UK Composting Association to BSI PAS 100, the quality standard for the composted materials. BSI PAS 100 allows composted products to be used with confidence and NWP certification demonstrates that good quality products are been manufactured from the resources which would otherwise have been

consigned to landfill. This certification reaffirms to our customers that NWP can deliver a consistently high-quality product which is also environmentally friendly. *Rosey Lee* is dedicated to converting organic green residues into valuable, natural gardening products.

FARMER DEVELOPING ANAEROBIC DIGESTION

Green Generation

Gorteen, Nurney, Co. Kildare
Contact: Billy Costello/Bill Corcorcan
e. billy@costello5.com
e. billcorcorcan01@gmail.com
t: 087 2525231

Andrew Ashmore

Ballaghmoon Hse, Carlow, Co. Carlow.
Contact: Andrew Ashmore
e: andrewashmore@hotmail.com
t.: 059 9145247/ 087 2255151

Moone Abbey Farm

Athy, Co. Kildare
Contact: Karl Matuschka
e: karl.matuschka@gmail.com t.: 0879807611

Bridge House Stud

Ballynacargy, Mullingar, Westmeath
Contact: Trevor Badger
e: trevorbadger@gmail.com t.: 087 2789705

Piltown Energy

Contact: Robert Dowley
t.: 0868117152 e: rdowley@eircom.net

Greenfield Ventures

Contact: Alan Reynolds
e: alanreynolds3@gmail.com t.: 0876312095

Sandford Energy Ltd

Sandford, Causeway, Co. Kerry
Contact: Timothy Leahy/Kevin Leahy
e: timothyjleahy@eircom.net
t.: 0871380699

TRADE

Biogas Developers Limited

38 Blackpark Road, Toomebridge, Antrim, BT41 3SL
Contact: Dr Kieran Owens/ Mr Mike O'Brien
e: kowens@biogasdevelopers.com
e: mike@biogasdevelopers.com
w: www.biogasdevelopers.com
t: 028 79650500 f: 028 79650804

Celtic BioEnergy

Gearagh Road, Ballinacurra, Midleton, Co Cork
Contact: Andrew Walsh
t: 021 462 1721 f: 021 462 1725 m: 086 3872139
e: awalsh@celticbioenergy.com
w: www.celticbioenergy.com

Celtic BioEnergy provides comprehensive engineering and consulting services to the anaerobic digestion and composting industry. The company offers dry and wet fermentation technologies in addition to in-vessel and aerated static-pile composting systems depending on the type of material to be processed and the size of the facility. CBE is the sole and exclusive representatives of Bioferm Viessmann and Krieg & Fischer in Ireland and the UK. CBE can design, design/build or design/build/operate composting or biogas sites and has the ability to finance its projects.

Down2Earth Materials

C/o STP, Unit 17 & 18, City Link Park, Forge Hill, Kinsale Road, Cork, Ireland.
Contact: John Lynch/Peter Synnott
e: jlynch@down2earthmaterials.ie
e: psynnott@down2earthmaterials.ie
t: 00353 (0) 21 4311842 f: 00353 (0) 21 4311869
w: www.down2earthmaterials.ie

Down2Earth Materials range of catering disposables are fully certified COMPOSTABLE, this means the products will turn back into soil in a short period of time (typically nine weeks) when they are commercially composted in the appropriate conditions. They are derived from either starch (corn, cassava or potato) or plant fibres. Low Carbon Organics Recycling means we think RESOURCE, NOT WASTE.

Our environmental criteria is COMPOSTABLE. Our products are certified to EN13432 European Standard and ASTD6400 American standard. They can be placed in with Food Waste and sent to be commercially composted. The end result is Compost which is a valuable resource! This eco

perfectionism means that our clients and consumers trust DOWN2EARTH to supply the most sustainable packaging in Ireland.

EPS Group

Mallow Business & Technology Park, Mallow, Co. Cork
Contact: Jim Palmer/James Fleury
t: 022-31200 f: 022-31250
e: jpalmer@epsireland.com e: jfleury@epsireland.com
w: www.epswater.ie

The EPS Group is an experienced and proven provider of water and wastewater treatment and pumping solutions including anaerobic digestion. Services include design, supply, installation, commissioning, operation and maintenance. The Group operates in the UK, Ireland and mainland Europe, across municipal, industrial, commercial, agricultural and domestic sectors. The EPS Group can provide a complete turnkey service to clients for the delivery of anaerobic digestion facilities. The EPS Group can work with clients to utilise a range of feedstocks including:-

- Slurry, agricultural residues and energy crops
- Brown-bin food waste
- Meat processing/category 3 wastes
- Food and drink industry sludges
- Wastewater sludges

Ecocem Ireland Ltd

FL3. Portview House, Thorncastle Street, Ringsend, Dublin 4
Contact: David O'Flynn/ Peter Seymour
t: 01 6781800 f: 01 6781816
e: doflynn@ecocem.ie
e: pete.seymour@ecocem.ie w: www.ecocem.ie

Ecocem manufacture GGBS cement. GGBS cement is sold to readymix concrete plants throughout Ireland and hence is available to projects nationwide. Specifying/using GGBS on composting/AD projects has many benefits. Concrete made with Ecocem GGBS is:

- Stronger
- More durable – increased resistance to attack from acids, sulphates, chlorides, alkali-silica
- Less permeable
- Less prone to thermal cracking
- More fire resistant
- Cost competitive

GGBS is also much more environmentally friendly having a CO₂ footprint of 0-50kg/tonne as opposed to 750-900kg/tonne for ordinary cement. To specify Ecocem GGBS cement in a project

simply include a requirement to use a minimum of 50% GGBS in all concrete throughout a project. A 70% replacement might be more suitable in certain circumstances. Please contact us at 01 6781800 with any queries.

EDINA Ltd

142 Slaney Close, Dublin industrial estate,
Glasnevin, Dublin 11

Contact: Joseph Maher/ Cathal Longwill
t. 01 882 4800 f. 01 830 7422

e. joseph-maher@edina.ie

e. alan-smyth@edina.ie

e. cathal-longwill@edina.ie

w. www.edina.eu / www.edina.ie

Edina has over 25 years experience installing power generation in Ireland. Edina is the leading supplier of Biogas fuelled CHP plants, offering the most efficient and reliable products in the marketplace. Edina's vast experience ensures world class customer care and product support. Local market knowledge ensures compliance with all relevant standards, licenses and regulations, ensuring a trouble-free project for the developer.

Evergreen Gas Ltd

Barrett's Mill, Ludlow, Shropshire, SY8 4AH UK

Contact: Will Liewellyn

e: will@evergreengas.co.uk

w: www.evergreengas.co.uk

t: +44 (0) 1584711 763

Evergreen Gas has developed a range of small-scale AD plants for farms and rural communities. Designed to digest slurries, manures or crop feedstocks, our AD plants deliver all of the advantages of AD but without the high price tag. Our range of 8 electrical outputs offers digesters sized for low strength, medium strength and high strength feedstocks. We include as standard high efficiency, high reliability CHP units, because we understand the importance of harnessing the maximum energy from the biogas

FLI Group

Six Cross Roads Business Park, Carriganard,
Waterford

Contact: Michael Geary/Michael Flynn

t. 051 353 190 f. 051 353 177

e. mgeary@fli.ie e. mflynn@fli.ie w. www.fli.ie

The FLI Group is a leading international environmental solutions provider. Established in Waterford in 1989, FLI and its subsidiaries specialise in the supply installation and operation of anaerobic digestion technology, geomembrane lining systems, contaminated land remediation and wastewater treatment technologies. The FLI Group has a network of offices throughout Ireland, the United Kingdom and France. Subsidiaries of the FLI Group include, Vertase, FLI Water and Energy, and 3NRG.

IDS

Mountrath Road, Portlaoise, Co. Laois

Contact: Peter Tallon/Mark Gleeson

e. PTallon@ids.ie w. www.ids.ie

t. +44 7747898224

Kuttner (UK)

Suite 2, Beresford Court, 8 Beresford Lane, Ayr, KA7 2DW, Scotland

Contact: Dr. Robin Szmids/Ms. Lynn Baird

t. 00441292283543 e. r.szmids@kuettner-uk.com

e. info@kuettner-uk.com

w. www.kuettner-uk.com www.kuettner.de

Kuttner offers environmental technology with particular emphasis on Anaerobic Digestion both for source separated organics and mechanical biological treatment streams. With more than 20 years experience, Kuttner UK, a subsidiary of Kuttner GmbH & Co KG is based in Scotland: serving Britain and Ireland. Kuttner is your licensee for KOMPOGAS 'dry' anaerobic digestion for organic wastes such as food, greenwaste and MBT organic fraction. The company offers technical solutions for all organic wastes, compost & digestate as well as energy utilisation by CHP, compressed natural gas or upgrading of 'green' gas. Kuttner also provides engineering for materials'-handling, automation, system control, energy recovery and pollution-prevention.

Landia (UK) Ltd.

Waymills Industrial Estate, Whitchurch Shropshire,

SY13 1TT Contact: Hugh Vaughan

t: 00441948661200 f: 00441948661201

e: info@landia.co.uk w: www.landiaworld.com

Landia are manufacturers of high quality biogas equipment which consists of heavy duty chopper pumps which were invented by Landia back in 1950, submersible mixers, wall mounted mixers,

digester gas mixing systems, high pressure pumps and pasteurizers, All proven for durability in the AD market over the last twenty plus years, full after sales and support available for both the UK and Ireland. We also have a full range of waste water equipment including Anoxic mixers and recirculation pumps of which we have over 100 installed at Ringsend Sewage Treatment works, Dublin.

MacMachinery

Ballybegly, Newtowncunningham, Co Donegal
Contact: Gerard McFadden
m. 087 2494908 **t.** 074 915 6708
f. 074 915 6709 **e.** info@macmachinery.com
w. www.macmachinery.com

MacMachinery is a well established company distributing high quality machinery and equipment in the Energy, Environmental, Material Handling and Recycling industries. MacMachinery represents some of Europe's leading equipment suppliers including; Doppstadt, Hein Lehmann, Neuenhauser, Presona and Sennebogen. A selection of the product range available from MacMachinery includes air separators, balers, ballistic separators, composting equipment, chippers, crushers, disc screens, grinders, linear screens, material handlers, mixers, scrap re handlers, shredders, star screens, stretch deck & flip flop screens, trommel screens, turners, optical sorting equipment, waste sorting systems, and waste shredders. MacMachinery also now provide a selection of Kinshofer attachments and SY-KLONE air cleaning products.

"MacMachinery put the right machines in the right applications"

Moore Biosystems

Caherty House, 41 Woodside Road, Ballymena. Co. Antrim. BT42 4QH
Contact: Peter Barrett/ Roslyn McMillan
e: p.barrett@moore-biosystems.com
e: r.mcmillan@moore-concrete.com
w: www.moore-biosystems.com
t: 028 2565 2566 **f:** 028 2565 8480

Novamont

Via Fauser 8, Novara, Italy. 28100
Contact: Tony Breton/Christian Garaffa
e. Tony.breton@novamont.com
e. Christian.garaffa@novamont.com
w. www.novamont.com
t. +44 7876200934 **f.** +44 8000664525

European Inventor of the Year 2007, Novamont SpA is a world leader in the development and manufacture of bioplastics for a range of applications called Mater-Bi®. Mater-Bi® is a family

of completely biodegradable and compostable materials which contain renewable resources of agricultural origin e.g. GM free starch and vegetable oils. Mater-Bi® is available in a range of grades each developed for the specific demands of a different application e.g. carrier bags, kitchen caddy liners, garden waste sacks and cutlery. All grades of Mater-Bi® are certified as biodegradable and compostable, according to the leading international standards, e.g. EN13432.

Nova Q Ltd

Unit 2A, Sunbury Industrial Estate, Ballymount Road, Walkinstown, Dublin 12, Ireland.
Contact: Julian Beatty (Managing Director)
t. 01-2542276 / 086 8207512
e. innovation@nova-q.ie **w.** www.nova-q.com

Nova Q Ltd is an innovative environmental solutions provider to the waste treatment industries with a particular strength in odour prevention and bioaugmentation. Our products prevent the build-up of ammonia and sulphur based odours in composting, AD, waste water treatment and landfill. Additionally, we can increase the speed of composting with our unique consortium of bacteria.

In AD we can increase digestion efficiency virtually eliminating H₂S in methane production for electrical power while reducing VSS, COD and BOD. We have also introduced a new electrochemical oxidation technology to the market that breaks down COD and ammonia in leachate.

Thorn Environmental Ltd

104 Patrick Street, Dun Laoghaire, County Dublin
Contact: Myles Thorn/ Adam Thorn
t. 01 280 8612 **f.** 01 2804830
e. myles@thorn.ie **e.** adam@thorn.ie
w. www.thorn.ie

Thorn Environmental Ltd is Ireland's leading supplier of Biodegradable and Oxo-biodegradable (ASTM D6954/04) products through its earth2earth brand. Products include plastic compost sacks, refuse sacks, and recycling sacks, as well as paper compost and shredding sacks. Our sacks are used extensively throughout the industry and by County and City Councils in Ireland and abroad. Our products are certified to EN 13432 and various other relevant industry standards.

Weltec Biopower (UK)

Stoneleigh Abbey Mews, Stoneleigh Abbey, Stoneleigh, Warwickshire CV8 2LF
Contact: Chris Jellet/ Wilhelm Bonse-Geuking

e: c.jellett@weltec-biopower.de
e: w.bonse-geuking@weltec-biopower.de
w: www.weltec-biopower.com
t: +44 (0)844 561 2060

WELTEC BIOPOWER offers complete biogas plants made of stainless steel from one source and has developed to a leading constructor of biogas plants in the world. One of the main strengths is the ability to deliver individual and flexible solutions – from farm-scale plants to plants in the megawatt range, waste recycling plants with de-packaging technology and biogas parks with gas processing technology (Biomethane-plants).

Xergi Ltd.

823 Salisbury House, 29 Finsbury Circus, London, EC2M 5QQ
Contact: Colin Steel
e. cst@xergi.com t: +44 (0) 1483 600098
w. www.xergi.com

Xergi Ltd is a subsidiary of the Danish company Xergi A/S, with over 20 years of experience in the Biogas Industry. As a Turnkey company Xergi offers full project support including feasibility, design, planning, construction and commissioning including compliance with country specific regulations. As a progressive business Xergi invests heavily in R&D having the world's largest test facility at the University of Animal Science at Foulum in Denmark. 'Delivering on Expectations' is the driver behind top quality design and components used extensively throughout the whole supply chain, this reduces long-term O&M costs while optimising returns on invested capital. In-house delivery of 21st century operation and control is the heart of a Xergi plant allowing for remote monitoring from anywhere in the world.

CORPORATE NON-PROCESSOR

Enva Ireland

Clonminam Industrial Estate, Portlaois, Co Laois
Contact: Gareth Kelly
t. 057 867 8600 f. 057 867 8699
e. gkelly@enva.ie w. www.enva.ie

Enva Soil Treatment utilises a process known as bio-remediation. Bio-remediation of contaminated soils

can be carried out either *in situ* at the location or *ex situ* with the excavated soil, carried out in the Enva purpose-built facility in Portlaois. *Ex situ* treatment can deal with higher levels of contamination and more difficult soil types. It also allows for immediate removal of contaminated soil so that development of the site can continue.

Clean Ireland Recycling

Creagh, Kilrush, Co Clare
Contact: Michael O Donoghue/Paddy Hedigan
t. 065 905 9092 f. 065 905 9330
e. modonoghue@cleanirl.com
e.phedigan@cleanirl.com w. www.cleanireland.ie

Clean Ireland Recycling is a waste management company based in Creagh, Kilrush, Co Clare providing a full range of waste management services to both domestic and commercial customers. Clean Ireland Recycling has built up a strong reputation for the provision of legally compliant and cost-effective waste management services. With a strong focus on technology, Clean Ireland Recycling was one of the first waste management companies in Europe to introduce the wheelie bin (Big Ben Bins) for the collection of non-hazardous waste. Clean Ireland Recycling investment in waste management technology reflects our commitment to the environment and to our staff of over 60 and our desire to provide the most compliant and professional waste management service.

Foyle Meats

Lisahally, Campsie BT47 6TJ
Contact: Darryl Boyd /Terry Acheson
t. +44 28 7186 0691 (Rol 048 7186 0691)
f. +44 28 7186 0700 (Rol 048 7186 0700)
e. darrylb@foylefoodgroup.com
e. terrya@foylefoodgroup.com
w. www.foylefoodgroup.com

The Foyle Food Group is a meat-processing group which process 180k of cattle and 400k of lambs per annum. Customers are located in the UK, Ireland and Europe and include Tesco, Birdseye and McDonalds.

Fitz Scientific

Unit 35, Boyne Business Park, Drogheda, Co. Louth
Contact: Michelle Kells/Geoff Fitzpatrick
t: 041-9845440 f: 0419846171
e: mkells@fitzsci.ie e: gfitz@fitzsci.ie
w: www.fitzsci.ie

Fitz scientific provide quality testing of soil, compost and waste samples with excellent turnaround times at value for money pricing. The company has operated in the Ireland and the UK for over 10 years and our customer based includes government bodies, the food, agricultural, and waste sectors. Our team of technicians and consultants have extensive knowledge of nutrient management plans, permit applications as well as waste licence analysis and monitoring experience. Currently we are offering competitive pricing on the analysis of soil for; Carbon / Nitrogen ratio, organic matter, heavy metals, nutrient, micro and physical testing , in addition to AT4 testing. This is backed by a comprehensive scope of accreditation to ISO 17025. For more information on the monitoring and testing services we can provide contact us today on 041 98 45440.

Greenstar Ltd

6 Ballyogan Business Park, Sandyford, Dublin 18
Contact: John Geaney
t. 01 294 7900 f. 01 294 7990
e. john.geaney@greenstar.ie w. www.greenstar.ie

Greenstar is Ireland's leading provider of integrated waste management solutions. Greenstar provides services at each level of the waste management hierarchy with our business development spanning a range of services from education, research, composting, recycling, to developing residual landfills for safe disposal of waste which cannot be reused, recycled or recovered. This suite of services will include significant provision of bio-waste treatment capacity at a national level. Greenstar will play a significant role in the future development and provision of Ireland's waste management infrastructure, with an expert team of staff with extensive experience in the areas of recycling and recovery, biological treatment, residual landfill management, engineering, environmental impact assessment, business development and communications.

GreenSax

DMG House, Deansgrange Business Park
Deansgrange, Co. Dublin
Contact: Garrett Walsh
t. 01 2832830 f. 01 2884992
e. office@greensax.com w. www.greensax.ie
Greenstake is a product development company specialising in the development and manufacture of compostable and biodegradable products.

Indaver

4 Haddington Terrace, Dun Laoghaire, Co Dublin
Contact: Claire Downey

t. 01 280 4534 f. 01 280 7865
e. claire.downey@indaver.ie w. www.indaver.ie

Indaver Ireland delivers high quality, cost-effective services in the specialist hazardous and non-hazardous waste market in Ireland. Operating since 1977, Indaver is a well-established waste management company, with a proven track record. Our offices in Dublin and Cork allow us to provide an efficient responsive service to our customers. Our transfer station in Dublin Port allows for a fast and convenient service for both small and large quantities of hazardous waste. The company is developing waste management infrastructure in Meath and Cork in order to provide a secure, cost-effective and sustainable waste solution to assist Ireland in meeting its Landfill Directive targets and to reduce its dependence on other countries to provide solutions for its waste. The 130 million waste-to-energy facility in County Meath is under construction, will be operational in 2011. The development represents the largest ever single investment in solid waste management infrastructure in Ireland.

Mulleady's Ltd

Cloonaugh, Drumlish, Co Longford
Contact: Anthony Mulleady
t. 043 3324145 f. 043 33 24731
e. am@mulleady.com
w. www.mulleadygroup.com

Mulleady's Ltd is a waste recycling and transfer station facility operating from a 9-acre fully-EPA licensed site in Drumlish, Co Longford licence W0169-01. The waste licence allows us to accept up to 95,000 tonnes per annum. Mulleady's Ltd employs 70 people at the facility. We are permitted waste collectors in the Midlands, Connaught, North-Eastern and Cork Regions. We are licensed to accept non-hazardous solid waste comprising domestic, commercial, industrial and construction and demolition wastes. We operate a pay-by-weight system for all our wheelie bin customers since January 2005. We also supply skips, roll-ons, compactors, separate collections for recyclables. We supply bailers for cardboard, paper and plastic wastes, and we can cater for waste and recyclables from domestic, commercial and industrial sources utilising a modern materials recovery facility.

Panda Waste Services

Beauparc Business Park, Navan, Co Meath
Contact: David Naughton
t. 1850 656565 f. 046 902 4189
e. david.naughton@pandawaste.ie
w. www.panda.ie

Panda is committed to identifying and delivering waste management systems to all of our customers in our endeavour to aid in minimisation of waste and increase recycling for a better environment. We have just in the Wright Environmental Technology in-vessel Composters. Panda has also been granted planning permission for an Anaerobic Digestion. Panda are committed to complying with all relevant environmental regulations and aim to supply a safe competitive and sustainable service with specific regards to the surrounding environment.

Re-Gen Waste Ltd

Unit 7, Shepherd's Drive,
Carnbane Industrial Est, Newry, BT35 6JQ Co
Down

Contact: Joseph Doherty/Celine Doherty
t: +44 28 30 265 432 (Rol 048 30 265 432)
f: +44 28 30 269 898 (Rol 048 30 269 888)
e: josephdoherty@regenwaste.com
e: celinedoherty@regenwaste.com
w: www.regenwaste.com

Re-Gen Waste Ltd, one of Europe's most advanced MRF installations concentrating on the sorting of Household Mixed Dry Recyclables, Re-Gen Waste has already helped many Councils throughout the UK and Ireland deal with their recycling needs. Strategically located to service the needs of public- and private-sector organisations, the company is capable of processing up to 60,000 tonnes of commingled dry recyclable waste every year. Combining a state-of-the-art automated sorting line which is overseen by the Re-Gen team. Working to your individual requirements, Re-Gen strives to deliver a cost-effective solution to your waste problem

Stream BioEnergy

Carraig House, Brookfield Terrace, Co. Dublin.
Contact: Morgan Burke/ Kevin Fitzduff
t: 086-3887909 **f:** 01-2108873
e: morgan.burke@streambioenergy.ie
e: kevin.fitzduff@streambioenergy.ie
w: www.streambioenergy.ie

Stream BioEnergy is a developer of commercial and agricultural scale Anaerobic Digestion plants. The company was formed to address the deficit of infrastructure available to process organic waste in Ireland. Stream BioEnergy specialises in the

planning, licensing, design, financing and construction of Anaerobic Digestion infrastructure. Our management team has significant experience of developing and operating renewable energy, waste and infrastructure projects throughout Europe. Find out more about us at www.streambioenergy.ie

Biocore Environmental Ltd

1st Floor, Clarity House, Belgard Road, Dublin 24
Contact: Peter Carey/Wayne Byrne
e: pcarey@biocore.net
e: wbyrne@biocore.net
t: 014046003
w: www.biocore.net

The Lisheen Mine

Killoran, Moyne, Thurles, Co Tipperary
Contact: Brian Quaid
e: bquaid@lisheenmine.ie
w: www.lisheenmine.ie
t: 0504-45700

B9 Organic Energy Limited

19 Point Street, Larne, Northern Ireland, BT40 1HY
Contact: David McKee/Ian Harvey
e: d.mckee@b9organicenergy.co.uk
e: i.harvey@b9organicenergy.co.uk
w: www.b9energy.co.uk
t: +44 28 28 268 273
f: +44 28 28 263 380

B9 Organic Energy Ltd is a renewable energy project developer, offering an efficient, sustainable and environmentally-friendly method of recovering and utilising organic waste to create renewable energy. B9's knowledge and history in the renewable energy sector shows that we have vast experience in funding, licensing, and project development. Our ability to remain technology-independent ensures we select the best technology available for the particular waste stream identified. This enables us to work with our clients and partners throughout the design stage to provide the right solution for their waste and energy needs. B9 can also partner with companies and farmers on a project-by-project basis to ensure that our experience helps to develop an environmentally and financially sound project.

KÜTTNER



Kuttner is your all-Ireland licensee for Kompogas 'dry' AD systems

The Kuttner team designs and builds large scale 'dry' anaerobic digestion plant under license using Kompogas technology: the global leader in digestion and biogas utilisation from solid organic wastes such as food, greenwaste, biocrop and MBT organic fraction. With more than 50 Kompogas reference plant worldwide we have the strongest possible track record. The company offers options for post-AD composting of digestate as well as energy utilisation by CHP, compressed natural gas or upgrading of 'green' gas. Combined with the Küttner capabilities in compost-use, engineering, in-house technology for materials-handling, automation and system control, we offer customers a force to be relied on.

Contact: Dr Robin Szmidt
Kuttner (UK) Limited, Suite 2, Beresford Court, 8 Beresford Lane, Ayr, Scotland, UK, KA7 2DW
Telephone: 0044 7952 748 549
Email: info@kuettner-uk.com
Web: www.kuettner-uk.com and www.kuettner.com (worldwide)

**ENTIRELY
COMPOSTABLE
OPTIONS**
FOR THE FOOD & CATERING INDUSTRY



**down2earth
materials**



"I've worked some 17 years in the service industry; this is the first time I've worked with such a comprehensive range of compostable products."

Stephen McGlynn, House Cafe, Cork



1890 757 757

www.down2earthmaterials.ie

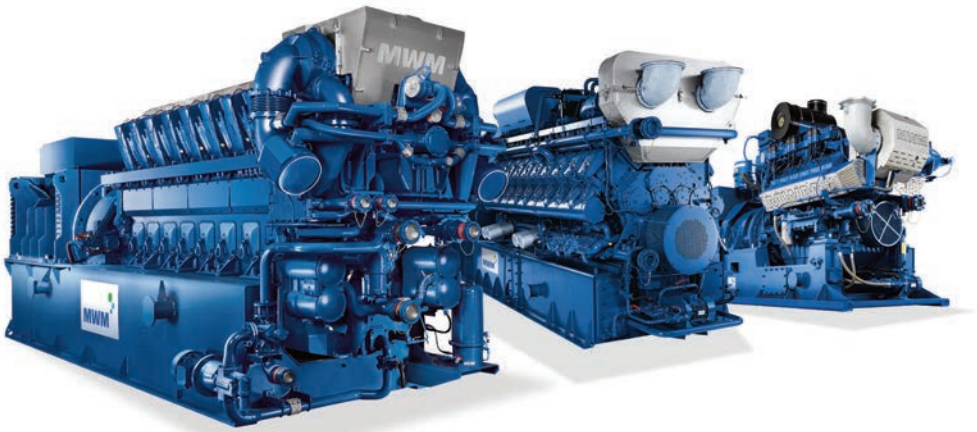
Europes Leading Supplier of Efficient Gas Engine Technology for AD

The Total Energy Solution Provider:

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- Design & Construction
- Full Turnkey Contracts
- Project Management
- Commissioning
- No Risk Maintenance

Proven Track Record :

- Over 1000MWe installed capacity
- Constructed for long life
- Low maintenance costs
- Complies fully with all UK/ROI laws
- Packaged in the UK by Edina
- Designed from experience



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Edina
142 A/B Slaney Close, Dublin Industrial Estate, Dublin 11
T: +353 (0) 1 882 4800 F: +353 (0) 1 830 7422
E: sales@edina.ie



MWM
Energy. Efficiency. Environment.
A Caterpillar Company

JOIN THE COMPOST QUALITY ASSURANCE SCHEME FOR SUBSIDISED RATES & PROMOTION

BORD NA MÓNA 

Bord Na Móna
Co. Kildare
Call: 045 439520

Cremin Farm Compost

Cremin Farm Compost
Co. Limerick
Call: 063 84292



Limerick
County
Council

Mungret Composting Facility
Co. Limerick
Call: 061 496402



Enrich

Enrich Environmental Ltd.
Co. Meath
Call: 087 2886182/086 8392508

www.cqas.ie

www.rx3.ie/cqas

The Irish Compost Quality Assurance Scheme is supported by the Department of the Environment, Community and Local Government through rx3

MEMBERSHIP FORM

Contact Details	
Organisation Name	
Address	
Contact Name 1	
Contact Name 2	
Email of Contact 1	
Email of Contact 2	
Web Site address	
Tel Number	
Fax Number	
Category of Membership	

- Email a 50-100 word description of your organisation for the Cré Membership Directory to percy@cre.ie

MEMBERSHIP CATEGORIES

CATEGORY	Yearly €	DESCRIPTION
Institutional	300	Universities, colleges, hospitals, prisons
Student	100	Student membership
Consultant I	300	Sole trader
Consultant II	450	Single office
Consultant III	750	Multiple offices
Local Authority	400	
Not-for-profit	200	Charities and voluntary
*Processor I	750	<5,000 tonnes feedstock pa
*Processor II	900	>5,000 - <10,000 tonnes feedstock pa
*Processor III	1000	>10,000 - <20,000 tonnes feedstock pa
*Processor IV	1200	>20,000 - <40,000 tonnes feedstock pa
*Processor V	1500	>40,000 + feedstock p.a.
Trade I	750	Equipment manufacturers & suppliers.
Corporate non- processor	400	Determined case by case
Farmer developing an AD plant	200	Introductory first year price

*the categories under 'processor' refer to the amount of waste to be composted/digested
Prices are ex vat at 23%

PAYMENT DETAILS

You can pay your annual membership subscription by cheque or we can invoice you directly.

Please invoice quoting the Purchase Order Number _____

BANK TRANSFER DETAILS

Account Name: Composting Association of Ireland Address of account holder: PO BOX 13, Dundalk, Co. Louth, Ireland Bank Name: AIB Address of Bank: Clanbrassil Street, Dundalk, Louth	Bank Code: 932450 Account Number: 66821039 BIC/Swift Code: AIBKIE2D IBAN: IE26 AIBK 9324 5066 8210 39 Reference: your name
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Please Complete this Application Form and Send to:

Cré- Composting and Anaerobic Digestion Association of Ireland, Po Box 13, Dundalk, Co. Louth, Ireland. Tel: 00 353 (0)86 8129260 Email: info@cre.ie Web: www.cre.ie

superiorcement



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Concrete made with Ecocem cement has superior durability:

- more sulphate resistance
- more acid resistance
- stronger



For technical advice or assistance: +353 1 6781800



Anaerobic Digester

www.ecocem.ie
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For more information see Ecocem's profile on page 22.