Ireland & Northern Ireland

2014 Guide to Composting and Anaerobic Digestion



Who Produces the Guide?

The 2014 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

Board of Directors

- Dearbháil Ni Chualain (Bord na Mona Horticulture)
- David McDonnell (Green Gas AD Plant)
- Fiacra Quinn (Greenstreets)
- Martin Eves (Envirogrind)
- Munoo Prasad (Compost Research & Advisory)
- Patrick O'Toole (O'Toole Composting)
- Tim Duggan (Enrich)
- Tom McDonnell (Thornstons Recycling)
- Maurice Cremin (Cremin Farm Compost)

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- 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, P.O. Box 13, Dundalk, Co. Louth Ireland t. 086 812 9260 e: info@cre.ie

2013 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 2013.

Some of the key successes were:

- Lobbied the European Commission to provide guidance on compost marketing in their draft Guidance Document for Members States.
- Oireachtas Committee investigation on sewage sludge management in 2014
- Election of Cre onto the European Compost Network Board of Director
- Election of Cré onto Harvest 2020 Sub Group on 'Nutrients/Amendments'
- Cré is a member of the Technical Working Group on Waste BREFs
- The European Union (Household Food Waste and Bio -Waste) Regulations 2013
- Lobbied for positive steps for anaerobic digestion in the Bioenergy Strategy

Report/publications:

- Review on Best International Practice on Educational Tools to Educate Households to Use the Brown Bin - co funded with the Department of Environment, Community and Local Government
- Cré Market Report 2013
- Cré Compost Market Report 2012
- Cré Report- The Management of Sewage Sludge in Ireland
- Cré Report- Garden Waste Collected at Civic Amenity Sites

Cre held the following meetings/events

- ADNI 2013, October 16th, Armagh City Hotel 177 Delegates
- National Composting and Anaerobic Digestion Conference & Site Visit to Bord na Mona, March
- HACCP Training Course
- Cré Industry Awards with Minister O'Dowd
- International Compost Awareness Week
- Members Meetings on 25 November

Other Work

- 16 Submissions
- 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" in 2009-2011
- 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





Composting & Anaerobic Digestion Association of Ireland

AD EUROPE 2014

Large International Conference & Trade Show on Anaerobic Digestion and Composting

20th - 21st February 2014City North Hotel, Dublin, Ireland

www.adeurope2014.eu

CRÉ EVENTS 2014

EVENT	DATE	LOCATION
Study Tour to Ballyrashane AD Plant	February	
New ABP Guidance Document training course	Spring	ТВС
AD Europe 2014 www.adeurope2014.eu	20 - 21 February	City North Hotel, Dublin
Members Networking Meeting	TBC	
International Compost Awareness Week	5-10 May	
ADNI 2014	last week of September	ТВС
Members Networking Meeting & General Meeting	last week of November	Killashee House Hotel, Naas

Training Courses

- ▶ How Good is Your Compost?
- Planning for an Anaerobic Digestion Facility
- Certificate in Compost Facility Operation
- MACCP 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/

Your partner for biogas project delivery

Thanks to our robust biogas plants, onsite energy generation can look a little different these days.

FLI Energy offers a robust and proven anaerobic digestion technology, as well as turnkey plant construction. Our biogas plants produce green energy from waste and industrial effluent streams, which will significantly reduce your need for imported energy as well as your carbon footprint. So let's talk about adding power to your business, we think you will like what you hear.

Contact us now on 0845 6886065 info@fli-energy.com www.fli-energy.com





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 markers 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". Pádraiq 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 then 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

t. 01 8165223 *f.* 01 8425731

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 lawabiding and purposeful lives as valued members of society.

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

w. www.itsligo.ie

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/Management and Occupational Safety and Health on a part-time and full-time basis 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 e: e.groom@qub.ac.uk

t: +44 (0)28 9097 5577 f: +44 (0)28 9066 1462

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

CONSULTANT I

Compost/AD Research and Advisory(IE/CY)

8A Woodlands, Naas, Co. Kildare

Contact: Munoo Prasad

t. 35345 948712 *m.* 35386 601 2034 (m.357 99901864)

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, peat as growing medium and plant nutrition. His research led to the facilities for composting of 100,000 m3 of organic waste primarily as a peat diluent and 60,000 m3 of bark compost as a growing medium Hehas been involved in five EPA funded research projects and two 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 a Reviewer of a number of leading scientific journals of waste management and horticulture He is now available for research and consultancy in his field of expertise.

Duncan Laurence Environmental Ltd

Coolnagee, Forth Mountain, Wexford

Contact: Duncan Laurence t. 053 9147709

e. duncanl@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

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.

M.F. Dineen & Co. Ltd.

Clohane, Ironmills, Killarney, Co. Kerry Contact: Michael Dineen

m: 087 8236279 t/f: 064 7754983

e. michael.dineen@mfdineen.com

w. www.mfdineen.com

M.F. Dineen & Co. Ltd. (MFD) was founded in 2006 by Michael Dineen and is a chartered engineering consultancy. MFD is based in Killarney; however, the company's client base extends throughout the country. MFD provides services including: planning & environmental consents, pre-contract and contract project management, cost planning, procurement & tender management, geotechnical analysis, value engineering, environmental impact assessment including full EIS, waste management advice, and a broad scope of other specialist technical advice & reporting. MFD projects include a bio-energy facility at Galmoy Mines incorporating AD with subsequent composting of digestate. Further details are available on www.mfdineen.com

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.

Certification Europe

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

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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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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.

Greenstreets Environmental Resources Ltd

U25, GEC, Taylor's Lane, Dublin 8 Contact: Fiacra Quinn/Howard Mulligan t. 01 410 0618 f. 01 410 0996

e. info@greenstreets.ie

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.

Odour Monitoring Ireland

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

Contact: Dr Brian Sheridan t. 046 943 7922/086 855 0401

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 <u>risk</u> 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.

CONSULTANT III

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 Engineers Ireland) and its quality system to ISO 9001:2000 (National Standards Authority of Ireland).

RPS Group

West Pier Business Park, Dún Laoghaire, Co. Dublin Contact: Conor McGovern

t. 01 488 2900 f. 01 462 0814

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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.

SLR Consulting

7 Dundrum Business Park, Windy Arbour, Dublin 14 Contact: Derek Luby / Conor Walsh

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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: Conor Craven t. 049 437 8410 Ext. 8416 f. 049 433 2299 e. ccraven@cavancoco.ie W. www.cavancoco.ie

Cork City Council

Environment Directorate, City Hall, Cork

Contact: Mary Walsh

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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

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e. mwhelan@dlrcoco.ie **e.** mcoles@dlrcoco.ie

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Donegal County Council

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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

North Tipperary County Council Civic Offices

Limerick Road, Nenagh, Co. Tipperary Contact: Michael Woulfe

t. 067 44765 f. 067 32260

e. e.mwoulfe@tipperarycoco.ie

w. www.northtippcoco.ie

South Tipperary County Council

Emmet Street, Clonmel, County Tipperary. Contact: Anne Peters

t. 052 6126149

f. 052 6134391

e. anne.peters@tipperarycoco.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/payas-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

e. postmaster@wexfordcoco.ie

w. www.wexfordcoco.ie

Private operators are providing a segregated household waste collection to more than 10,000 householders (2013) in County Wexford. An education awareness campaign will take place in Wexford and Enniscorthy Towns in 2014 as the

Household Food Waste regulations impose obligations on householders and waste collectors in these towns and we will work closely with both to ensure compliance.

Wexford County Council actively promotes home composting and has trained 40 volunteers in composting and food waste prevention through the Master Composter training programme. 8 villages now compost their green waste and promote food waste prevention through their Tidy Towns Committees. Wexford County Council's enforcement staff is actively enforcing the commercial food waste regulations.

PROCESSOR I

Athchúrsáil Árann Teoranta

Eochaill, 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. Athchúrsáil Árann Teoranta provides waste management to the three Aran Islands, and have received approval to operated a composting facility on Inis Mor to comply with the Animal by Product regulations (COMP 19). Contact Gerry Mullin. 0872663419.

Clare County Council

Environment & Emergency Services Directorate Áras Contae an Chláir, New Road, Ennis, Co.Clare

Contact: Maeve Ryan

t. 065 6836960 *f.* 065 6836959

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/lan 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.

Limerick County Council

County Hall, Dooradoyle, Limerick Contact: Diarmuid Sheehy

t. 061 496 402 **f.** 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 t. 074 91 59 071 f. 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 employees 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 t. 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

t. 071 911 1910 **f.** 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 t. 00 44 1778 380 005 f. 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 Contact: W. Martin t. 042-9329200 w. www.vandwrecycling.ie

V & W Recycling operate a state-of-the-art Recycling Centre in Dundalk, Drogheda and Ardee Each recycling centres Green Waste is composted in V & W Recycling's Composting Plant producing a very high grade, totally organic compost.

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 Ballaghaderreen (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

Ballyminaun 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

w. www.galwaycity.ie

City Hall, College Road, Galway Contact: Theo McLoughlin t. 091 536463 f. 091 568146 e. theo.mcloughlin@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 is a farm based anaerobic digestion facility. Located outside Shanagolden in Co. Limerick adjacent to the family farm, GreenGas AD Plant processes dairy and poultry manure and imported feedstock such as food 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 is recycled for heating use in both Plant and the nearby poultry enterprise. The processed digestate is used on local farmland as a high quality eco fertiliser.

Ormonde Organics

Portlaw, Waterford 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.come. sam@acornrecycling.com

w. www.acornrecycling.com w. www.aqssolutions.ie

Acorn Recycling operates a 35,000 tpa multiwaste composting facility managing brown bin, commercial and other organic wastes under EPA and DAFF licences. Under AQS Environmental Solutions the company carries out specialised drainage and industrial services across all industrial sectors throughout Ireland.

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 £ 052 6130815/087 4125625

e. derry@miltowncomposting.ie

Miltown Composting is approved to treat Animal By-Products by DAFM and is licensed by the EPA to treat 24,500 tonnes per annum. We specialise in producing high grade compost from source, separated brown bin and industrial sludge's, which is then used by local farmers and landscapers as an organic fertilizer/soil conditioner. We also treat Organic Fines which have been mechanically separated from the household black bin, enabling it to be land filled without creating harmful landfill gases whilst helping landfills reach their biodegradable waste to landfill targets. We also offer contract timber and green waste shredding and compost turning services.

OD Recycling Ltd

Ballyboe, Kilsheelan, Clonmel, Co. Tipperary Contact: Patrick O'Donnell *t.* 052 33293/087 233 3429 *f.* 052 33867

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

Bord na Mona Drehid Compost Facility

Killinagh Upper, Carbury, Co. Kildare Contact: Michael Storan

t. 045-439472 086-8151443 *f.* 045-439489

e. michael.storan@bnm.ie

Bord na Mona Resource Recovery operates a modern state of the art tunnel composting facility at Drehid, Carbury, Co. Kildare. The facility, which has been in operation since January 2012, is licensed by the EPA and Department of Agriculture, Food & the Marine to accept 25,000 tonnes per annum of non-hazardous biodegradable materials. Our technology optimises all aspects of the composting process which results in a high quality compost end product.

Enrich Environmental Ltd

Larch Hill Stud, Kilcock, Co. Meath Contact: Tim Duggan/Kevin McCabe

t. 016103672

e. Info@enrich.ie w. www.enrich.ie

Enrich is an award winning composting facility and product manufacturer. At Enrich we operate two composting processes, each managed by our experienced team. The first process is a cost-effective solution to handling green material in an open windrow system. The second is our in-vessel composting plant that employs state of the art technology to compost organic material. Enrich has being accredited with NSAI IS441 certification for the compost that it produces for landscape and gardening projects, land remediation and

enhancing sports turf surfaces. In addition to our composting processes, Enrich now has a soil advisory service to assist clients with technical aspects of soil health and management. This service looks at key aspects of soil and tailors a program that can be used to restore or enhance a soils potential, for areas such as sport turf, grassland, commercial agriculture, and horticulture and land remediation are covered. See website for more information about our products and services. "Healthy Soil—Healthy Plants—Health People"

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. The facility has just completed at the end of 2013 a new expansion phase which will allow the facility to accept a total of 40,000 tonnes of non-hazardous biodegradable material such as catering waste, green waste, brown-bin food waste and sludge for composting 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, W0195-02 and Department of Agriculture, Comp-6.

The main feedstock for the facility is household Brown Bin and commercial Brown Bin/catering waste. The incoming feedstock goes through a composting/transformation stage over a period of 8 to 9 weeks to produce quality compost which is used as an organic fertilizer/ soil conditioner in commercial farming and landscaping.

Kilmainhamwood Compost also provides a delivery and spreading service for the end-user if required. In 2013 the addition of a 450Hp self propelled spreader to the fleet was a great benefit to getting compost spread within the short spreading period. In 2007, the facility was accredited with ISO 14001, ISO 9001, and OHSAS 18001.

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, byproducts 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 highquality 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

Greenfield Ventures

Contact: Alan Reynolds

Sandford Energy Ltd

Sandford, Causeway, Co. Kerry Contact: Timothy Leahy/Kevin Leahy

e: timothyjleahy@eircom.net t.: 0871380699

TRADE

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.

Clarke Energy

Unit 7, Newtown business park, Newtownmountkennedy, Wicklow Contact: John Curley, Toni Pedder

t. 0879804002

- e. john.curley@clarke-energy.com
- e. Toni.Pedder@clarke-energy.com
- w. www.clarke-energy.com

Clarke Energy is the authorised distributor and service provider for GE Energy's Jenbacher gas

engine in Ireland. The Island of Ireland including both the Republic and Northern Ireland is managed from Clarke Energy's dedicated Irish operation in Newtownmountkennedy, County Wicklow. Clarke Energy is committed to delivering high quality installations and to providing reliable, accountable, long term maintenance support for your generation equipment. GE Jenbacher gas engines can be applied to a variety of gases including biogas, sewage, landfill gas, syngas and natural gas. Our extensive experience includes an installed and commissioned base of over 2,750MW worldwide.

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.

Ecocem Ireland Ltd

F1 East point Office park, Dublin 3 Contact: Peter Seymour

t: 01 6781800 *f*: 01 6781816

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

Delaire House, Unit 4 Swords Business Park Swords, Co. Dublin

Contact: Colin McKibbin/ Cathal Longwill t. 01 882 4800 f. 01 830 7422

- e. colin-mckibbin@edina.eu
- e. cathal-longwill@edina.eu
- 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.

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

Harp Renewables

Unit 7, Mullaghboy Industrial Estate, Athboy Road, Navan, Co. Meath Contact: Joe Cowley/ Brian Finnegan E: Joe@harprenewables.com E: Brian@harprenewables.com W: www.harprenewables.com T: +353(0)469093679 F: +353(0)469093679

Harp Renewables is an Irish based company developing Anaerobic Digestion (AD) projects in Ireland with capable assistance from the technology provider Snow Leopard.

Harp Renewables is the agent for Snow Leopard Projects Gmbh. Snow Leopard has a proven two stage AD plant technology. Harp Renewables will commit to developing, building and supporting AD plants in Ireland. The Harp Team already have the personnel and knowledge to take case of each aspect of an AD plant including calculating the feedstock, tank sizes, civil construction of the project, project management and after sales support. We work very closely with each client from the AD plant location, grid connection, feedstock analysis, planning, AD plant design and build, operator training, remote monitoring and after sales support. If you would like us to quickly calculate what you could achieve with the snow leopard two stage technology, please feel free to contact us on infor@harprenewables.com

IAS Laboratories

Unit 4, Bagenalstown Business Pk, Bagenalstown, Co. Carlow

Contact: Ruth Clinton, Denise Reilly e: ias@iaslabs.ie e: dreilly@iaslabs.ie w: www.iaslabs.ie t: 059 9721022

IAS Laboratories are a soil and compost testing laboratory. They provide testing such as heavy metals, respiration activities, nutrients and much more for a range of compost facilities and ad plants. IAS Laboratories are an accredited laboratory and provide a first class testing service. Contact Ruth Clinton ias@iaslabs.ie or 059 9721022

Kuttner (UK)

c/o Target Renewables Ltd, 25 Scaur O Doon Rd, Ayr, KA7 4EP, Scotland, UK Contact: Dr. Robin Szmidt t. 00441292440000

e. r,szmidt@targetrenewables.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, via its partner office in Scotland, Kuttner serves Britain and Ireland. Kuttner is your provider of 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 where 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, Machino, Hein Lehmann, Neuenhauser, Presona and Sennebogen, Stadler. 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 & 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.

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 O Ltd

Unit B21, KCR Estate, Kimmage, 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 bio-augmentation. 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, award winning consortium of bacteria. These products are effective both on compost and the biofilters, as well as reducing leachate generation. In AD we have several new technologies that can be applied as a unit or on a modular basis throughout the process, with particular capabilities in gas purification and digestate treatment. Through electro-chemical oxidation we are also bringing to the market a new range of oxidants that are effective in cleaning and sanitizing compost and waste transfer facilities. Nova Q Ltd was awarded the Organics Recycling Suppliers Award at the 2013 Cré Industry Awards

Panford Ltd (Redwood Systems)

Parkway Building, Whitestown Industrial Estate, Tallaght, Dublin 24

Contact: Monique O'Brien, Fergus O'Brien

e. monique@panford.come. fergus@panford.comw. www.panford.comt. 01 4596756f. 01 4610452

Redwood Systems has over 50 years experience in air movement technology. We provide custom engineered solutions to your process operation, designed to match your exact requirements. In addition to designing and supplying individual fans, we design and supply turnkey systems covering areas such as cooling, heating, curing, drying, ventilation, pneumatic conveying, dust, fume and odour control, noise attenuation and process control systems to name a few. We design, manufacture and supply complete composting systems including trommel screeners. All customer enquiries are handled by technically qualified field engineers, who will correctly ascertain your requirements and design a system to achieve these requirements while at all times being conscious of restraints. Our control systems can be from basic manual control up to full computer monitoring and data trending, incorporating web access to monitor the system with any pc with web connection, and sms txt service. A large part of the work undertaken would be full systems from design stage through to commissioning and we can offer a complete package for product drying, cooling or curing and have an extensive knowledge base spanning a wide range of industries.

Thorn Environmental Ltd

104 Patrick Street, Dun Laoghaire, County Dublin Contact: Myles Thorn/ Adam Thorn

t. 01 280 8612
f. 01 280 4830
e.mvles@thorn.ie
e. adam@thorn.ie

e.myles@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, pefuse 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.

Xergi Ltd.

823 Salisbury House, 29 Finsbury Circus, London, EC2M 500

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

Clean Ireland Recycling

Creegh, 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 Creegh, 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: Malcolm Dowling

f. 01 294 7990 t. 01 294 7900

e. Malcolm.dowling@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. 01 436 6314 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 nonhazardous 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, costeffective 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-byweight 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.

Mulch

Unit 10. Malahide Road Industrial Park. Coolock.

Contact: John McGuinness, Aengus Benson

e. john@mulch.ie e. aengus@mulch.ie

t. 018475370 *f.* 018475370

w. www mulch ie

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 (RoI 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 publicand 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 an independent, Irish owned, renewable energy development company with an emphasis on delivering infrastructure to process organic waste in Ireland. As part of a vision for a better, safer, more secure and sustainable clean energy future, Stream promotes the use of anaerobic digestion to generate renewable energy from organic materials in a way that safeguards our environment. Stream specialises in AD project development including planning and licensing, plant design, financing and construction. Stream is independent of all technology solutions allowing for the best process design and equipment to be selected on a case by case basis. The management team of Stream has significant experience of developing and operating renewable energy and waste infrastructure projects throughout Europe.

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/lan 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 technologyindependent 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.



BIOWASTE MANAGEMENT

Fehily Timoney & Company (FTC) has extensive experience in the field of biowaste management. Our knowledge of biowaste management and treatment derives from the experience gained as one of Ireland's leading solid municipal waste and sludge treatment consultants. We employ scientists and engineers who are expert in an array of engineering and environmental disciplines. This breadth of expertise enables FTC to offer our dients a complete service for the provision of biological waste treatment facilities. We offer a comprehensive service to developers of biowaste treatment facilities including pilot operations.

Services Provided

- Site selection
- Feedstock assessment
- Technical feasibility studies
- Technology Selection
- Statutory compliance (Planning, waste, IPPC, ABP)
- Environmental impact assessment
- Pilot studies
- Conceptual and detail design
- · Assessment of operational impacts
- Construction Management

Consultants in Engineering & Environmental Sciences Fehily Timoney & Company, Core House, Pouladuff Rd., Cork, Ireland.

Tel.:+353 21 4964133 Fax.:+353 21 4964464

Fehily Timoney & Company, Unit 16, 3rd Floor, J5 Plaza, North Park Business Park, North Road, Dublin 11 Tel.:+353 1 6583500 Fax.:+353 1 6583501

email: info@ftco.ie web: www.fehilytimoney.ie





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T: +44 (0)28 9262 2122

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E: Info@edina.eu www.edina.eu



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Anaerobic Digeste

www.ecocem.ie

For more information see Ecocem's profile on page 21.

ENERGY FARMER®

- Reliability in Biogas Farming

10R16

Benefits to the ENERGY FARMER®

- Secure your long term energy costs
- Control input costs by using nutrient-rich digestate in the place of man-made chemical fertilisers
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- Secure your farm revenue by farming for energy
 - · Improve overall on-farm profitability

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 With over 25 years of experience, Xergi is the perfect partner for your project – your investment is in safe hands

> With a team of qualified engineers in the UK, we can provide the help and support you will require. We can help with Design, Planning, Build and Commissioning, Finance, Electricity Sales and Service and Support





- excellence in biogas

Xergi Ltd 823 Salisbury House, 29 Finsbury Circus, London EC2M 5QQ

01483 600098 cst@xergi.com

www.xergi.com

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 1	750	<5,000 tonnes feedstock pa	
*Processor 2	900	>5,000 - <10,000 tonnes feedstock pa	
*Processor 3	1000	>10,000 - <20,000 tonnes feedstock pa	
*Processor 4	1200	>20,000 - <40,000 tonnes feedstock pa	
*Processor 5	1500	>40,000 - <50,000 tonnes p.a.	
*Processor 6	2750	>50,000 + feedstock p.a.	
Trade I	500	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

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 Web: www.cre.ie

Food Waste Issues? Problem Solved

Thorn Environmental Limited is Ireland's largest supplier of biodegradable and compostable films and sacks. Thorn has put together an award winning solution to the waste separation problem. The bin and bag system enables the user to fully comply with all HSA and HACCP guidelines.



The Bag

Thorns award winning earth2earth compostable range of bags include a specially designed bag for use in their brown ktichen pedal bin.

- The bag is water proof and heat resistant to 75 degrees (unlike others)
- Superior strength and tear resistance
- Ivory Clear bags with eye-catching green motif
- · Various stock sizes available, and specials on request
- EN13432 certified

The Bin

Thorn's 45 Litre brown pedal bin when filled near the top will ensure that the user does not exceed 20kg lifting restriction. This means that users can empty the bin the fewest times possible without exceeding weight restriction. Reducing the amount of bags used and waste spilled.

- Hands-Free Pedal operation
- Will contain spillage if necessary
- Easy clean
- Specially designed to hold the maximum lifting weight without exceeding.
- Fully HSA and HACCP compliant

For more information please contact:

Thorn Environmental Limited: (01) 2808612, info@thorn.ie

