

Clean Technology Centre, Cork Institute of Technology

Research Projects

1994 – 2014



Year	Programme or Initiative	Project Title	Focus of Project	Funding Body
2014	N/A	Waste characterisation study	Review and update of the methodologies used for the characterisation of municipal waste (household and non-household) in Ireland	EPA, Ireland
2014	N/A	Solvents Report	Fourth Report on the implementation of Directive 1999/13/EC on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations in Ireland	EPA, Ireland
2014	National Waste Prevention Programme	Green Healthcare Programme	Continuation of supports to Irish Healthcare sector	EPA, Ireland
2014	National Waste Prevention Programme	Green Hospitality Programme (CHP)	Continuation of GHP – work on the greening of the Irish hospitality sector	EPA, Ireland
2014	National Waste Prevention Programme	Local Authority Prevention Network (LAPN)	Continuation of LAPN supports to local authorities in Ireland	EPA, Ireland
2014	National Waste Prevention Programme	Stop Food Waste (SFW)	Continuation of SFW food waste prevention programme	EPA, Ireland
2014	National Waste Prevention Programme	Green Business Initiative	Continuation of work to support companies in Ireland become more resource efficient	EPA, Ireland
2013	Leonardo da Vinci Programme	Green Games for Tourism and Hospitality	Project to develop game based learning to support tourism and hospitality students become more environmentally aware.	European Commission
2013	National Waste Prevention Programme	Green Healthcare Programme	Continuation of supports to Irish Healthcare sector	EPA, Ireland
2013	National Waste Prevention Programme	Green Hospitality Programme (CHP)	Continuation of GHP – work on the greening of the Irish hospitality sector	EPA, Ireland
2013	National Waste Prevention Programme	Local Authority Prevention Network (LAPN)	Continuation of LAPN supports to local authorities in Ireland	EPA, Ireland
2013	National Waste Prevention Programme	Stop Food Waste (SFW)	Continuation of SFW food waste prevention programme	EPA, Ireland

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2013	National Waste Prevention Programme	Green Business Initiative	Continuation of work to support companies in Ireland become more resource efficient	EPA, Ireland
2012	EPA STRIVE Programme 2007 - 2013	Roadmap for a National Resource Efficiency Plan for Ireland	Research study on resource efficiency in Ireland and abroad with a view to developing a roadmap for RE for Ireland	EPA, Ireland
2012	National Waste Prevention Programme	Green Healthcare Programme	Continuation of supports to Irish Healthcare sector	EPA, Ireland
2012	National Waste Prevention Programme	Green Hospitality Programme (CHP)	Continuation of GHP – work on the greening of the Irish hospitality sector	EPA, Ireland
2012	National Waste Prevention Programme	Local Authority Prevention Network (LAPN)	Continuation of LAPN supports to local authorities in Ireland	EPA, Ireland
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2011	National Waste Prevention Programme	Local Authority Prevention Network (LAPN)	Continuation of LAPN supports to local authorities in Ireland	EPA, Ireland
2011	National Waste Prevention Programme	Stop Food Waste (SFW)	Continuation of SFW food waste prevention programme	EPA, Ireland
2011	National Waste Prevention Programme	Green Business Initiative	CTC takes over management of Green Business Initiative to support companies in Ireland become more resource efficient	EPA, Ireland
2010	National Waste Prevention Programme	Green Healthcare Programme	Initial formal development of supports to Irish Healthcare sector, following a trial in 2009	EPA, Ireland
2010	National Waste Prevention Programme	Green Hospitality Programme (CHP)	Continuation of CHP – work on the greening of the Irish hospitality sector	EPA, Ireland
2010	National Waste Prevention Programme	Local Authority Prevention Network (LAPN)	Continuation of LAPN supports to local authorities in Ireland	EPA, Ireland
2010	National Waste Prevention Programme	Stop Food Waste (SFW)	Continuation of SFW food waste prevention programme	EPA, Ireland
2010	Intelligent Energy in Europe Programme	EINSTEIN	Development, testing and training of EINSTEIN thermal auditing open source software tool.	European Commission
2010	Leonardo da Vinci Programme	Creative Trainer II	Development of a training course on innovation and creativity, focusing on sustainability	European Commission
2010	N/A	Assessment and guidance for the implementation of EU waste legislation in Member States	Guidelines for provisions under the new Waste Framework Directive	European Commission (DG Environment, Unit G2 - Sustainable Production & Consumption)
2009	National Waste Prevention Programme	Development of best practice guidance for the vehicle servicing and garage sector	Hazardous waste prevention and good practice in the garage and vehicle servicing sector	EPA, Ireland
2009	N/A	Environmental Best Practice Guidelines to 'green' events and conferences	As title	Fáilte Ireland

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2009	National Waste Prevention Programme	Framework agreement on hazardous waste arising from the agricultural sector	Hazardous waste prevention and good practice on farms	EPA, Ireland
2009	CGPP	CIT's sustainable campus programme (with CIT as lead partner)	As title	EPA, Ireland
2009	STRIVE Programme	Development of an integrated waste management life cycle analysis and carbon footprinting tool for the major waste streams in Ireland (ref: 2008-WRM-MS-2-S1)	As title	EPA, Ireland
2009	National Waste Prevention Programme	Framework agreement on household food waste prevention and the promotion of home composting - support to the EPA and local authorities.	Provision of support to local authorities to aid home composting and food waste prevention	EPA, Ireland
2008	Leonardo da Vinci Programme	ESIL- European Sustainable Innovation License	Development of a training programme and eLearning tool on sustainability	European Commission
2008	Intelligent Energy in Europe Programme	IUSES - Intelligent Use of Energy at School	Development of a training programme and award system for secondary schools relating to intelligent use of energy	European Commission
2008	STRIVE Programme	Development of optimized pay-by-use systems which are designed to maximise the incentives for waste reduction while at the same time maintaining a properly functioning waste management system.	As title	EPA, Ireland
2008	National Waste Prevention Programme	National Environmental Programme for the Irish Hospitality sector	Environmental Management and award scheme for hospitality sector	EPA, Ireland
2008	N/A	Development of an EMS for the Fish Catching Sector	As title including a training manual, workshops and benchmarking exercise	Bord Iascaigh Mhara (BIM)
2008	National Waste Prevention Programme	National Characterisation of the Municipal Waste Streams in Ireland.	With RPS – as title	EPA, Ireland
2007	N/A	Assessment of Enterprise Opportunities in the Environmental Goods and Services Industry	Analysis of the EGS Sector in Ireland and recommendations of potential for further development	Forfás/InterTradeIreland
2007	N/A	Inventories of Persistent Organic Pollutants in Ireland: 1990 and 1995-2005 (with AEA)	As title	EPA, Ireland
2007	N/A	Energy Management Action Programme (Energy MAP) for Hotels	Energy Management Pilot workshop and support series specifically tailored to meet the needs of Hotel	Sustainable Energy Ireland
2007	National Waste Prevention Programme	Production and Delivery of prevention Training Course for Local Authorities	As title	EPA, Ireland
2007	National Waste Prevention Programme	Local Authority Prevention Demonstration Programme, Phase II	Management of this programme on behalf of the Environmental Protection Agency	EPA, Ireland
2007	N/A	Green Fáilte Award programme for hospitality sector	Award scheme and eco label for hospitality sector in Limerick, Clare, Kerry	Limerick/Clare/Kerry Regional Waste Management Office
2007	N/A	Revision of Guidance under the Solvents Directive and Deco-paints Directive	As title	EPA, Ireland
2007	National Waste Prevention Programme	The Development of a Methodology and Identification of Potential Obligated Major Producers under the Waste Management (Packaging) Regulations 2007	Development of a list of companies in Ireland potentially obligated under these regulations	EPA, Ireland

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2006	ERTDI Programme	Treatment of industrial waste water containing active pharmaceutical ingredients with a membrane bioreactor, with the aim of reducing resource consumption (with CIT)	As title	EPA, Ireland
2006	N/A	BAT Guidance documents for the treatment and protection of wood, for the manufacture of integrated circuits, and for combustion plant less than 50MW	As title	EPA, Ireland
2006	ERTDI Programme	Pilot programme for establishing a regional eco business recognition mark	Development of an eco label or eco award for small companies in the Macroom region for good environmental practice	EPA, Ireland
2006	Tempus Programme	Establishment of a cleaner production centre in the University of Rijeka, Croatia	As title	EUROPEAN COMMISSION
2006	N/A	Waste Prevention Guide for Industry and Business	As title	Limerick/Clare/Kerry Regional Waste Management Office
2006	ERTDI Programme	Greening of Irish Hotels	Initiative to improve the environmental performance of hotels	Environmental Protection Agency
2006	6 th Framework Programme	Identification and assessment of training needs, methods and activities for the wider use of environmental technologies in key sectors	As title, particular reference to the transport sector	EUROPEAN COMMISSION
2006	ERTDI Programme	Investigation into why existing environmental technologies are underused	As title	Environmental Protection Agency
2006	National Waste Prevention Programme	Local Authority Prevention Demonstration Programme	Management of this programme on behalf of the Environmental Protection Agency	Environmental Protection Agency
2006	Asia Pro Programme	Eco-profit for Mongolia	Establishment of a cleaner production centre in Ulan Bator, Mongolia	EUROPEAN COMMISSION
2006	ERTDI Programme	Irish National Centre for Membrane Technology (with CIT)	This centre will support the adoption of membrane separation processes which have the potential to reduce energy and material consumption in Irish industry	Environmental Protection Agency
2005	N/A	Assessment of the potential to develop environmental state supports for enterprise	As title	Forfás
2005	N/A	The Development of a Methodology and Preparation of a Report on the implementation of the Solvents Directive (1999/13/EC) in Ireland	Involved a review of EPA regulated facilities to identify all licensees which come under the scope of the solvents Regulations and to assess if current licences fulfil requirements. Also involved the preparation of a report to the Commission and the development of an on-line reporting system for local authorities.	ENVIRONMENTAL PROTECTION AGENCY (IRL)
2005	N/A	Waste prevention, WEEE and hazardous waste review and redrafting for several Regional Waste Management Plans	As title	City and County Councils of Connaught Region, South West Region, Midlands Region, North East Region, Dublin Region
2005	N/A	Compiling Emission Inventories of HFCs, PFCs and SF6 for inclusion in Ireland's submission to the EU under Decision 280/2004/EC under the United Nations framework Convention on Climate Change with AEA Technology (UK)	Involved the development of usage and emissions inventories in accordance with international reporting requirements for 3 of the 6 Kyoto greenhouse gases for the years 2001 through to 2004.	ENVIRONMENTAL PROTECTION AGENCY (IRL)
2005	N/A	Compiling of Heavy Metals Inventory for Ireland's National Air Inventory System in compliance with the UNECE	Involves the development of emissions inventories in accordance with international reporting requirements for the heavy metals Cd, Pb, Hg, As, Cr, Cu, Ni, Se, and Zn)) for the years 1990, and 1995 through to 2004	ENVIRONMENTAL PROTECTION AGENCY (IRL)

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2005	Leonardo Da Vinci II	HERMES II: Health-Environment-Risk Managers Educational Support	E-Learning programme of environmental management training	EUROPEAN COMMISSION
2005	National Waste Prevention Programme	Development of Waste Prevention Training Programme for Industry, in partnership with IBEC	As title	ENVIRONMENTAL PROTECTION AGENCY (IRL)
2005	N/A	Compiling of NMVOC (SNAP Sector 6: Solvent and other product use only) Inventory for Ireland's National Air Inventory System in compliance with the United Nations Economic Convention for Europe with AEA Technology (UK)	Involved the development of inventories of solvent emissions in accordance with international reporting requirements for the years 2000 through to 2004.	ENVIRONMENTAL PROTECTION AGENCY (IRL)
2005	Asia Pro Programme	CO2 Managers for the Industry of the People's Republic Of China	To provide capacity building through the development of expert skills in the field of carbon dioxide (CO2) management for industry in the People's Republic of China	EUROPEAN COMMISSION
2004	6th EU Framework Programme	PRODESTS	To set-up a market-Oriented Methodology for SMEs to join Integrated EU research Projects on Innovative Clean and Environmental Technologies.	EUROPEAN COMMISSION
2004	National Waste Prevention Programme	Municipal waste characterisation survey	As title	ENVIRONMENTAL PROTECTION AGENCY (IRL)
2004	N/A	Waste Prevention Review and plan for Cork County Council Waste Management Plan	As title	Cork County Council
2004	N/A	Green Fáilte Award programme for hospitality sector	Award scheme and eco label for hospitality sector in Cork City and County	Cork Chamber of Commerce
2004	N/A	Management of Cleaner Greener Production Programme (CGPPII) for Ireland	As title	environmental protection agency (IRL)
2004	N/A	BAT Guidance Note On Best Available Techniques for the Production of Cement and for the Production of Lime in a Kiln	As title	ENVIRONMENTAL PROTECTION AGENCY (IRL)
2004	N/A	BAT Guidance Note on Best Available Techniques for Solvent Use in Coating, Cleaning and Degreasing,	As title	ENVIRONMENTAL PROTECTION AGENCY (IRL)
2004	N/A	BAT Guidance Note for the Surface Treatment of Metals and Plastics	As title	ENVIRONMENTAL PROTECTION AGENCY (IRL)
2004	Leonardo Da Vinci II	HAZTRAIN: Hazardous waste management training programme	Development of web based tool for the identification of hazardous components of waste and training modules	EUROPEAN COMMISSION
2003	N/A	Preparation of Best Practice Guidelines for surface cleaning	As title	ENVIRONMENTAL PROTECTION AGENCY (IRL)
2003	N/A	Preparation of Best Practice guide for metal plating and finishing; Best Practice guide for furniture.	As title	ENTERPRISE IRELAND
2003	N/A	Development of a National Protocol for the Implementation of a Reporting Mechanism in line with the requirements of S.I. 543 of 2002 (implementation of the Solvent Emissions Directive in Ireland)	As title	ENVIRONMENTAL PROTECTION AGENCY (IRL)
2003	N/A	Research project to investigate factors influencing take-up by Irish enterprises of funding for research into sustainable production, technology, innovation and practices	As title	DEPARTMENT OF ENTERPRISE, TRADE AND EMPLOYMENT (IRL)
2002	Leonardo Da Vinci II	Extended Technology and Management Training for SMEs	Development of environment, management and technology focused training materials for SMEs	EUROPEAN COMMISSION

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2002	ERTDI PROGRAMME 2000-2006	Material Flow Accounts (MFA) - Demonstration for Ireland	Development of methodology to measure material flows for Ireland	ENVIRONMENTAL PROTECTION AGENCY (IRL)
2002	N/A	Preparation of best practice guidance notes for dry cleaning and vehicle refinishing sectors under Solvent Emissions Directive	As title	ENVIRONMENTAL PROTECTION AGENCY (IRL)
2002	PRTL I 3	Environmental evaluation of electronic manufacturing processes (with NMRC-UCC)	Life cycle assessment of electronic equipment (approved, not yet initiated)	HIGHER EDUCATION AUTHORITY (HEA)
2002	EU LIFE ENVIRONMENT PROGRAMME	Cost Benefit and Feasibility Analysis of the implications of the WEE Directive and the HEATSUN recycling activities	As part of the EU LIFE Environment Programme HEATSUN	EUROPEAN COMMISSION AND DUBLIN CITY COUNCIL
2002	ERTDI PROGRAMME 2000-2006	Assessment and development of a waste prevention framework for Ireland	As title	ENVIRONMENTAL PROTECTION AGENCY (IRL)
2001	Leonardo Da Vinci II	Network for Life Long Vocational Learning for Sustainable Regional Development	Setting up and developing environmental networks of trainers and developing and disseminating training products	EUROPEAN COMMISSION
2001	Leonardo Da Vinci II	Health-Environment-Risk Managers Educational Support	Setting up a web-based training programme for HSE managers and graduate/post-graduate students in Poland	EUROPEAN COMMISSION
2001	Leonardo Da Vinci II	College Programme in Municipal Environmental Management for Regional Development	Setting up an environmental management training course for university students and municipality employees in Latvia	EUROPEAN COMMISSION
2001	ERTDI PROGRAMME 2000-2006	Waste Electrical and Electronic Equipment (WEEE) Collection Trials in Ireland	Setting up and testing practical WEEE collection trials in Ireland to determine the best approach to capturing such waste and to integrating it into proper recovery, treatment and disposal channels	ENVIRONMENTAL PROTECTION AGENCY (IRL)
2001	ERTDI PROGRAMME 2000 – 2006	Cleaner Greener Production Programme for Ireland	Management of CGPP for EPA; Advice and consultancy to prospective applicants; selection (with EPA) of successful candidates; liaison with companies chosen for grant-aid	ENVIRONMENTAL PROTECTION AGENCY (IRL)
2000	PRTL I 2	Zero emissions and wastes	Assessment and development of methodologies to achieve zero wastes from manufacturing enterprises.	HIGHER EDUCATION AUTHORITY (HEA)
2000	PRTL I 2	Closed material cycles	Study of benchmarking and reduction in water and organic solvent usage.	HIGHER EDUCATION AUTHORITY (HEA)
2000	N/A	Food Factory of the Future (environment)	Application of life-cycle methodology to food manufacturing (with AMT-UCC, U Maynooth)	ADVANCED MANUFACTURING TECHNOLOGY VIA ENTERPRISE IRELAND
2000	ERTDI PROGRAMME 2000-2006	Characterisation of non-household municipal waste in Ireland and the development of an approach to tracking municipal waste composition	As title	ENVIRONMENTAL PROTECTION AGENCY (IRL)
2000	N/A	Study to Assess the effectiveness of the Cleaner Production Pilot Demonstration Programme (CPPDP)	As title	ENVIRONMENTAL PROTECTION AGENCY (IRL)
2000	ERTDI PROGRAMME 2000-2006	Greenhouse gas emissions and climate change: emission inventories for HFC, PFC and SF6	Study of HFC, PFCs and SF6, their prevalence and role in climate change in Ireland	ENVIRONMENTAL PROTECTION AGENCY (IRL)
2000	ERTDI PROGRAMME 2000-2006	Procedure for the Identification of the Hazardous Components of Waste	Development of procedure to classify hazardous wastes	ENVIRONMENTAL PROTECTION AGENCY (IRL)
2000	ERTDI PROGRAMME 2000-2006	Environmental Benchmarking for IPC Industries	Development of system to benchmark companies in IPC licensing system	ENVIRONMENTAL PROTECTION AGENCY (IRL)

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2000	ERTDI PROGRAMME 2000-2006	Assessment and evaluation of outlets for materials that can be recovered from municipal waste	Development of strategy whereby tools and instruments can be applied to boost current and potential outlets for municipal waste recovery	ENVIRONMENTAL PROTECTION AGENCY (IRL)
1999	EU 5TH FRAMEWORK PROGRAMME	Evaluation of networking and innovation diffusion as mechanisms for sustainable production (INNET)	Use of networks to stimulate more sustainable activities; socio-economic studies; innovation development	EUROPEAN COMMISSION
1999	EU PHARE PROGRAMME	Institutional Strengthening and Capacity Building in The Former Yugoslav Republic of Macedonia	Awareness raising in Macedonia; development of personnel in government, NGOs, industry, research etc.	EUROPEAN COMMISSION
1999	DG Industry Supported project	European Network on Good Environmental Practices (GEPNet)	Support internet based network for solving environmental problems using preventive approaches	EUROPEAN COMMISSION
1999	N/A	Preventative measures for reducing emissions to the environment of selected dangerous substances in waste from electrical and electronic equipment	As title	EPA ON BEHALF OF THE EUROPEAN TOPIC CENTRE ON WASTE
1998	N/A	National Hazardous Waste Management Plan (NHWMP).	Advice and assistance in preventive aspects of hazardous waste	ENVIRONMENTAL PROTECTION AGENCY (IRL)
1998	Operational Programme for Environmental Services (1994-1999),	Quantification and tracking of (industrial) solvents and other products to estimate VOC emissions to air	As title	ENVIRONMENTAL PROTECTION AGENCY (IRL)
1998	Leonardo Da Vinci I	Networked Environmental Action Training for small and medium enterprises (NEAT +) - a multiplier project	Awareness raising and training in SMEs; prevention focus; CD-ROM developed for Hungary and Romania	EUROPEAN COMMISSION
1998	EU LIFE ENVIRONMENT PROGRAMME	Recovering and recycling construction and demolition waste	Recovery and recycling of C&D waste in Cork region	EUROPEAN COMMISSION
1998	Leonardo Da Vinci I	Technological training for SMEs	Awareness raising in SMEs and students; prevention focus	EUROPEAN COMMISSION
1997	OPERATIONAL PROGRAMME: ENVIRONMENTAL SERVICES 1994-1999	Inventory and tracking of dangerous substances used in Ireland and development of measures to reduce their emissions/losses to the environment	As title	ENVIRONMENTAL PROTECTION AGENCY (IRL)
1997	N/A	Best Practice Environmental Database Project	Audit of several companies regarding performance and development of best practice database	ENTERPRISE IRELAND (IRL)
1996	RETEX OPERATIONAL PROGRAMME OF THE EUROPEAN COMMISSION	Proposal for the Establishment of a Centre for the Promotion of Environmentally Friendly Products and Processes	As title	ENTERPRISE IRELAND (IRL)
1996	Leonardo Da Vinci I	Vocational Training in Environmental Care and Management - ENVIROCARE	Awareness raising for 2nd and 3rd level vocational students; prevention focus; CD-ROM and website development	EUROPEAN COMMISSION
1996	EU-DG XII PROGRAM ENVIRONMENT AND CLIMATE, 4TH FRAMEWORK PROGRAMME	Development of Societal Mechanisms and Management for the establishment, implementation and maintenance of Sustainable Production Programmes at the Local Level	Socio-economic study of Ireland (Cork in particular) in order to develop more sustainable production methods and support local authorities et alia	EUROPEAN COMMISSION

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1995	Leonardo Da Vinci I	Networked Environmental Action Training for SMEs (NEAT)	Awareness raising and training in SMEs; prevention focus; CD-ROM developed for Ireland, UK, Netherlands, Finland	EUROPEAN COMMISSION
1995	EU LIFE ENVIRONMENT PROGRAMME	Environment Training Programme for Industry	Training course for industry	EUROPEAN COMMISSION
1995	EU LIFE ENVIRONMENT PROGRAMME	Irish-Danish-French Co-Pilot Project Environmental Administration & Audit	Environmental audit and preventive advice to companies in 3 countries	EUROPEAN COMMISSION
1995	OPERATIONAL PROGRAMME: ENVIRONMENTAL SERVICES 1994-1999	The Use of Cleaner Production Technologies in the Electronics and Metal Finishing Industries	Identification and analysis of CP options and potential in electronics and metal finishing industries	ENVIRONMENTAL PROTECTION AGENCY (IRL)
1994	EU LIFE ENVIRONMENT PROGRAMME	Training and Education in Integral Environmental Management (IEMAS)	Development of prevention based manual for various industries to develop EMS	EUROPEAN COMMISSION
1994	EU ENVIRONMENT PROGRAMME	The Implementation of Cleaner Technology: Socio Economic Determinants of Adoption and Diffusion: A Cross Regional Comparison	Comparison of different social aspects and attitudes in different countries and industries	EUROPEAN COMMISSION