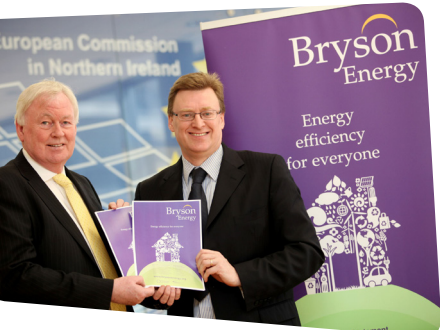


Bryson Charitable Group Strengthens its Brand Further with New Visual Identity

Bryson Charitable Group has unveiled a new logo and visual identity to strengthen its energy division. The Northern Ireland Energy Agency will now be known as Bryson Energy. The new identity took effect during European Sustainable Energy Week (11th – 15th April). This is very appropriate as Bryson Energy remains the European Energy Agency for Northern Ireland.

Bryson undertook a strategic review of its energy division and the time was right to develop a stronger identity and closer link with the wider Bryson Group. The new logo offers Bryson Energy a much stronger identity by incorporating Bryson into the name. The new brand mark uses the purple colour with the new orange arch that Bryson is known by.



Bryson Energy is the new name for the Northern Ireland Energy Agency. Nigel Brady, Director of Bryson Energy is pictured highlighting the new Bryson Energy brand to Maurice Maxwell, Head of the EU Commission for Northern Ireland during EU Sustainable Energy Week which ran from 11th to the 15th April. Bryson Energy is part of the Bryson Charitable Group and a member of the Association of Irish Energy Agencies.

Nigel Brady, Director of Bryson Energy, said: “In Bryson Energy, we are building a clearly-defined, well-positioned and easily understood brand. Our refreshing, new visual identity will help us to communicate in an even clearer way with our customers and stakeholders alike. Our new logo shows our customers that we are part of Bryson Charitable Group, the leading social enterprise in Northern Ireland with over 100 years experience”.

TrainEnergy Project

The Tipperary Energy Agency is currently completing another IEE project “TrainEnergy”, aimed at upskilling tradespeople such as carpenters, plumbers, plasterers etc.

The main objective was based on the new Energy Performance of Buildings Directive and the lessons demonstrated to all trades on how important their particular role was in the construction and retrofitting of houses and buildings. The bulk of the theoretical training took place in the Institute of Technology, Blanchardstown and Cork Institute of Technology. The practical demonstrations were carried out in retrofitted houses

Maurice Maxwell, Head of the EU Commission for Northern Ireland said: “I am delighted to support the launch of Bryson Energy, the new name for the Northern Ireland Energy Agency, during EU Sustainable Energy Week. Bryson Energy is one of some 380 energy agencies across Europe which support the introduction of good energy management practices, advocate the concept of sustainability, provide information and guidance, and offer a number of other local services based on specific local energy needs. Bryson Energy is one of the largest and most successful European energy agencies with over 60 staff and a turnover of circa £8M.”

Bryson Energy will continue to deliver services with the aim of providing energy efficiency for everyone. With rising fuel costs, extreme weather conditions and old inefficient and poorly insulated homes there has never been a better time for the services that Bryson Energy provide to householders across Northern Ireland. During 2010 over 82,500 households (11% of total households) were assisted in improving the energy efficiency in their homes.

Their key services include project management, energy and benefit advice, micro generation consultancy, education services for young people and installation of energy saving measures such as loft, cavity wall insulation, new heating systems and renewable technologies. Bryson Energy will continue to work with a wide range of partners including local government, utility companies and private organisations to deliver energy efficiency for everyone.

Bryson Energy is part of the Association of Irish Energy Agencies.

For more information on Bryson Energy log onto their web site www.brysonenergy.org

around Nenagh and in the Eco-Village in Cloughjordan.

Houses in Richmond, Millersbrook and Radharc Darach were used as examples of retrofitted energy efficient houses. Energy efficiency upgrades in these houses included external wall insulation, cavity wall insulation, attic insulation, heating controls, stoves in place of open fires, condensing boilers and hot water solar panels. In the Eco Village, a number of low energy houses were demonstrated as well as the large biomass boiler, the solar panel farm and the district heating system.

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This Newsletter is printed on recycled paper

Approximately 30 students from Dublin and Cork made the trip to Tipperary to learn from these best practice examples of energy efficiency and renewable solutions in construction.

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Better Energy Workplaces Scheme

Under the Government’s Jobs Initiative, the ‘Better Energy - The National Upgrade Programme’ was launched by the Minister for Communications, Energy & Natural Resources earlier this year. This programme aims to deliver a major increase in the scale of sustainable energy investments in upgrading existing buildings and facilities and the scale in which these upgrades are rolled out across the country.

Within this programme, financial support is available through the Better Energy Workplaces scheme for implementing a wide range of sustainable energy upgrading projects in the public, commercial, industrial & community sectors.

The main focus of the support will be on achieving delivery in 2011 of sustainable energy (mainly energy efficiency) investment projects of differing sizes and complexities.

Support is available for sustainable energy upgrades to buildings, services, facilities and processes, involving investment actions comprising individual or packaged measures, aimed at achieving ongoing and lasting energy savings. Projects entailing upgrades to thermal, electrical or transport energy performance are all considered eligible.

In the non-commercial public sector, there is grant support available to cover 50% of eligible costs, however in some cases public bodies may qualify for support of up to 80%. In general, grant support per project will not be less than €20,000 and will not exceed €500,000.

In general, projects are required to be physically completed and claims for grant payments are required to be received by SEAI by 1st December 2011 except in cases where authorisation has been given to extend a phase of a project into 2010, in which case the

relevant portion of the grant pertaining to this phase can be claimed in 2011.

Many of the AIEA members are currently putting together applications on behalf of their Local Authorities and details of projects and funds received will be detailed in our next newsletter . **On page 3 of this newsletter we are featuring** a project carried out on a water treatment plant in Cork city . Funding for this project was secured through the Energy Efficiency Retrofitting fund which preceded the Better Energy Workplaces Scheme.

Objectives of the Better Energy Workplaces Scheme

- Achieve significant, measurable and verifiable energy performance gains in the public and private sectors that yield for money cost savings and contribute to meeting national energy policy targets.
- Stimulate employment activity through relatively labour-intensive sustainable energy upgrading projects.
- Support the installation of both individual sustainable energy measures and packages of such measures – including encouraging the implementation of deeper and more technically / economically challenging measures.
- Build and develop the value-chain that can deliver sustainable energy projects, particularly relating to procurement and contracting arrangements between partners.
- Develop and showcase the impact of sustainable energy services provided by or on behalf of energy suppliers designated as Obligated Parties.

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Mission Statement:

“The Association of Irish Energy Agencies (AIEA) is an All-Ireland body assisting the development and implementation of energy policy and best practice in an impartial and effective manner at local, national and EU level, through its own actions and by strengthening the capabilities of its members”

AIEA Working Groups

In November 2010, a subgroup of the AIEA looked at the changes that had occurred in the Energy and Public Sectors since the formation of the AIEA and its member organisations. The review identified a number of technical and financial challenges facing Local Energy Agencies and proposed steps to ensure that the Association continued to strengthen the position of its members in a competitive Energy Sector.

One of the critical steps was to establish workgroups to develop expertise in key areas such as public lighting, water services, ICT, transport, renewables, policy and finance. The groups were tasked with developing knowledge and skills within their specialist area and establishing a continuous professional development programme for its members and stakeholders. The groups would also identify funding for tailored pilot projects in order to maximise the benefit of the limited funding available and showcase exemplar projects.



In early 2011, the workgroup details were finalised, each group becoming responsible for the delivery of its own work packages and identifying its budget requirements.

The first workgroup output came from the Housing group on the 1st of April, when the group hosted a workshop on "Upgrading and Building Energy Rating" attended by over 60 people. The workshop was extremely well received by both our members and those involved in Local Authority housing and demonstrated the capacity of these groups to deliver a high quality and professional service that supports Public Sector Energy Management programmes.

The second workgroup output focussed on technical issues relating to IT services in Local Authorities, particularly the migration to virtual and cloud computing systems. The presentations also provided members with an

insight into energy monitoring technologies and how they can be applied to validate the savings achieved by an energy reduction programme. Subsequent discussions about server room cooling, EPIs, and the significance of national motor tax office IT policies prompted further investigations. The findings and recommendations will be presented in 2012 alongside the results of current INTERREG and SAUL projects relating to building performance.

The remaining working groups will continue to focus on the most significant issues identified by AIEA members and deliver relevant training seminars and case study material into 2012.

Irish Launch of Green eMotion

The Irish launch of the Green eMotion project took place on 21st June in the Long Room Hub, Trinity College.

The event was officially launched by the Minister for Energy, Pat Rabbitte TD, and the Provost of Trinity College, John Hegarty, CEO of the ESB, Pdraig McManus and Codema's Director Gerry Wardell were all in attendance.

Ireland will receive €1.5 million in funding from the EU to develop electric transport. The funding will be shared among the Irish partners; Codema, the ESB, Trinity College and Cork City Council.

The funding is part of a European Commission initiative, with the value of €41.8m, to develop knowledge and experience of e-mobility in selected regions within Europe.

About 2,000 electric vehicles and 3,500 charging stations are part of a countrywide rollout in Ireland in a partnership between industry, manufacturers, local authorities and universities.

In Dublin, Codema will bring together the four Dublin local authorities and the ESB, with the aim of integrating electric vehicles within an overall sustainable energy plan for a green and energy-smart city – with possible 'smart energy zones'.

Green eMotion is part of the European Green Cars Initiative and is funded under the Seventh Research and Development Framework Programme (FP7) in order to compare the 12 ongoing regional and national electro mobility initiatives in eight different EU member states.

It will also compare the different technology approaches and contribute to the identification of the best solutions for the European market.

he project will involve different types of electric vehicles, the development of smart grids, innovative information and communication technologies solutions, and urban mobility concepts.



Codema is delighted to be working with its Irish partners (the ESB, TCD and Cork City Council) and the four Dublin local authorities on this Green eMotion project.

"By adopting more sustainable transport methods such as electric vehicles we could save up to 140 kilotonnes of CO2 each year and achieve annual net cost savings of up to €27 million. Therefore we must move towards cleaner, green transport options in order to achieve our vision of an energy-smart city", said Codema's Director Gerry Wardell.

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Energy Efficiency Retrofit Fund (EERF) for Lee Road Water Treatment Plant

Introduction

Cork City Council was successful in attracting substantial funding for energy efficient upgrades at the Lee road water treatment plant from the Sustainable Energy Authority of Ireland (SEAI). The funding for Lee Road was subject to Cork City Council jointly procuring a similar product or service with another Local Authority namely Kerry County Council. The joint procurement strategy would hopefully lead to one contract providing a significant reduction in price. The Lee road plant is the single biggest consumer of energy in Cork City Council. The improved performance of the Lee Road plant is one of the cornerstones of Cork City Council's climate change strategies. An improved efficiency will result in a global reduction of our energy and carbon costs.

Objectives

The specific objectives of the project were to:

- reduce the energy consumption and overall running cost of existing low level pumps by more than 10%
- improve the monitoring and collection of data capability at waterworks by installing a new Plant Management and Monitoring System. This will enable real time monitoring and configuration of the pumping schedule etc to improve the overall efficiency of the plant operation.
- improve reliability of water treatment in the City by replacing the older existing pumps.

Technology Specification

The two new split case vertical mounted Variable Speed Drive (VSD) centrifugal pumps replaced four existing low level split Mather & Platt case type pumps which are more than 30 years old and have a recorded efficiency of less than 65%. The pumps were manufactured in Derby, UK. The motors for the pumps were also vertically mounted to mitigate against future flooding. The plant was badly damaged in the winter of 2009. The motors, switchgear and electric wiring were submerged in the deluge. This resulted in the plant being out of action for a week and then gradually brought back to the original pumping demand after one month. This initiative by Cork City

Council engineers should ensure continual pumping even if the plant is flooded to the same levels in the future. The team at the waterworks has recently measured the actual efficiency of the new pumps and they have measured over 80%. The VSD controller will introduce a level of automation into the plant that will increase efficiencies at different pumping demands. The duty on the pumps is 800m3/hr each. Typically 47,300 m3 per day are extracted from the River Lee, treated and pumped to the reservoirs at Churchfield, Hollyhill and Shanakiel



Fig 1. Newly installed centrifugal pumps at Lee Road waterworks



Fig 2. Brendan Goggin Senior Executive engineer demonstrating the user friendly interface to Xiang Cheng of Cork City Energy Agency



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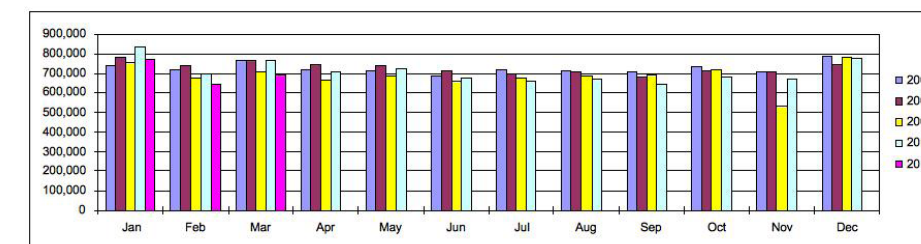


Results

The graph below illustrates the energy consumption in the plant over a number of years. It is too early to make conclusions on the energy improvement because the plant is still being tested and configured for optimal pumping. Initial results to date show that there is an 8% reduction in consumption. Cork City Energy Agency will monitor performance for another three months to ascertain whether we'll meet our expected targets. Initial results are very encouraging and a two year payback (before the grant) is on course to be achieved.

Project Overview

Pumping Duty	Flow: 800m3/hr – Solo 1,400-1,600m3/hr – Series Total dynamic head: 83m
Project Cost	€156,000
Funding	70.5%
Project partners	Cork City Council, Kerry County Council and SEAI
Project Contractor	EPS pumping and treatment systems
Carbon savings	400 tonnes of CO2 per year



Graph 1. Electricity profile of Lee rd. Water treatment plant

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