



Success Through Sustainability

***Strategies that work for local
development***

John Farrell

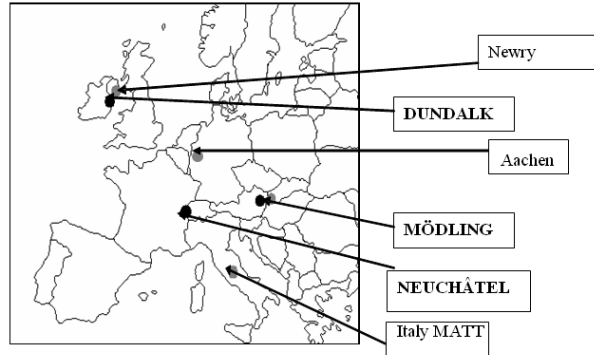
Director of Environmental Health

Newry Town hall

June 28th 2010



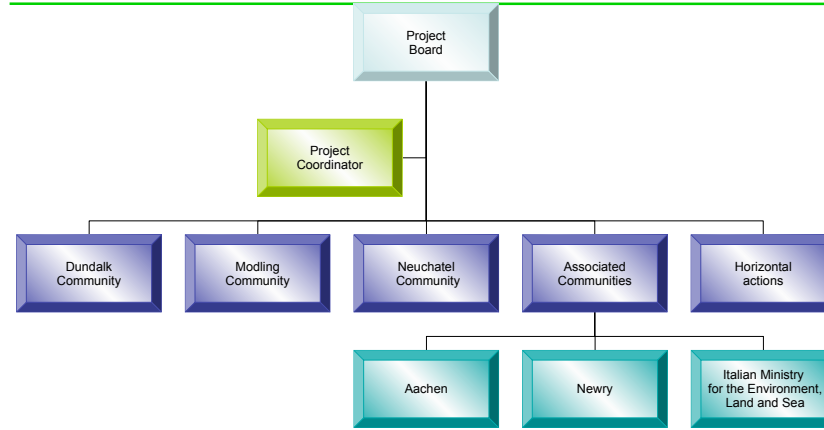
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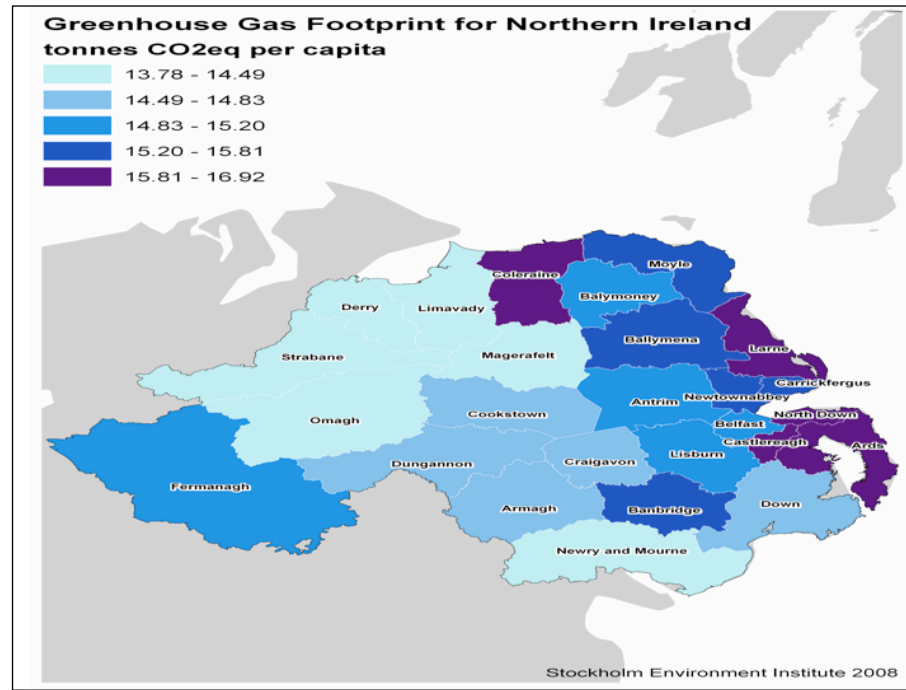
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Holistic Management Structure



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Newry- Low Carbon City

Proposing A Sustainable Energy Zone (SEZ) –



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Vision of a Low Carbon City

"A city in which citizens, business and government sustainably live, work and interact, through delivery of integrated, low carbon products and services"



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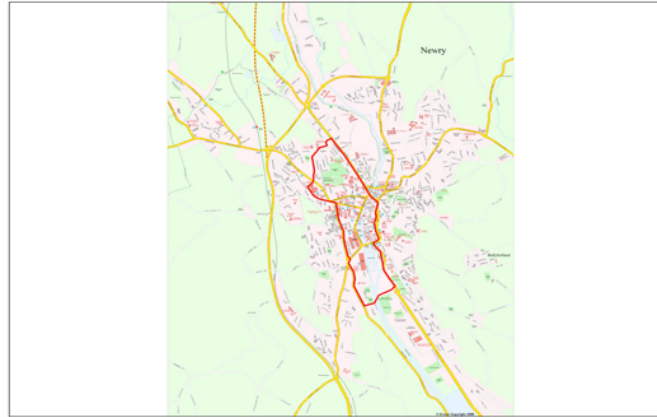
-
- Newry and Mourne District Council
 - Southern Regional College
 - Newry Chamber of Commerce and Trade
 - Confederation of Community Groups
 - Northern Ireland Housing Executive
 - Energy Saving Trust
 - Southern Health and Social Services Trust – Daisy Hill Hospital
 - Buttercrane and Quays Shopping Centres
 - Canal Court Hotel
 - Sustainable Energy Ireland
 - Glen Dimplex
 - Local Businesses
 - Louth County Council
-



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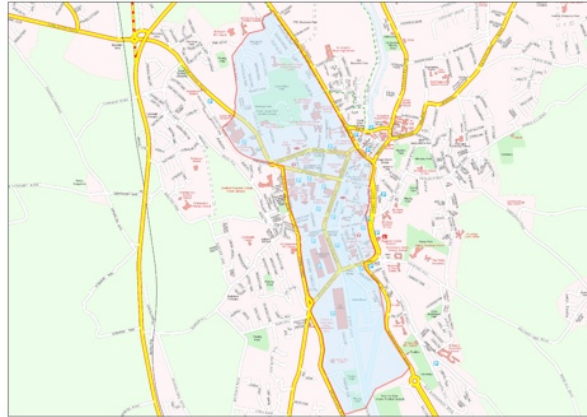
Newry – Identifying a Proposed Zone



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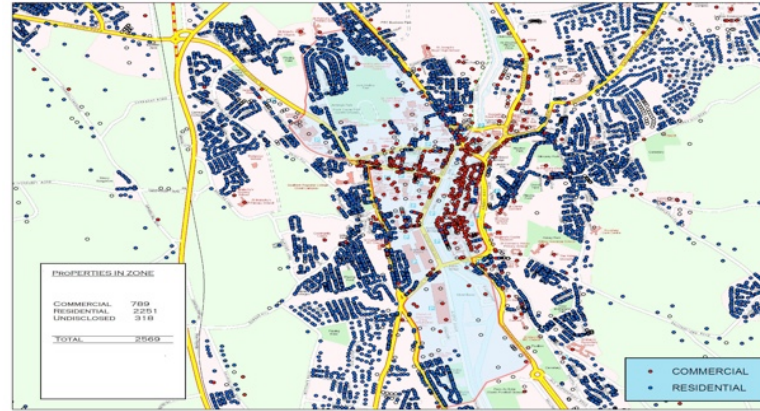
Newry – Proposed Linear SEZ



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Newry - Properties within the Zone



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Variation of Building Types



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Conclusion



- The energy efficiency and performance of our buildings
- Increase the supply of renewable energy
- Apply different energy technologies, techniques and practices in an intelligent and integrated way within the zone
- Maximise all potential revenue and funding streams from a wide range of sources



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- Newry and Mourne will learn from the experiences and knowledge sharing from our European partners in assisting us to reach our sustainable energy targets.



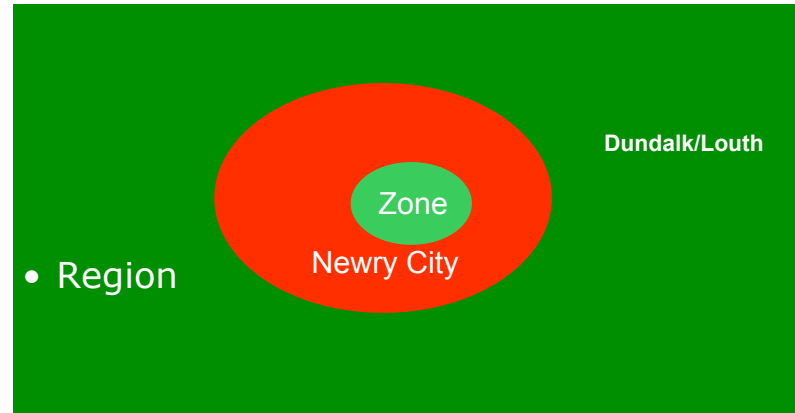
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- It is envisaged that this zone will eventually create an exemplar sustainable energy region in partnership with Dundalk.



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- Steering Group meet monthly
- Launch Low Carbon City Charter in September
- NIHE – retro-fit 5 social and one owner occupier houses.
- Work with Energy saving trust
 - Warm Home Scheme
 - Ensure that all domestic dwelling are aware of available grants
- Survey Energy usage within the zone
- Consult with planners and developers
- Apply for funding – Plugged in places



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- Provide educational seminars
 - Businesses
 - General Public
- Energy Roadshow in September for the General Public.
- Apply for Interreg funding for behavioural change project
- Apply for funding for an electric shuttle bus between Newry Bus station and Newry train station.

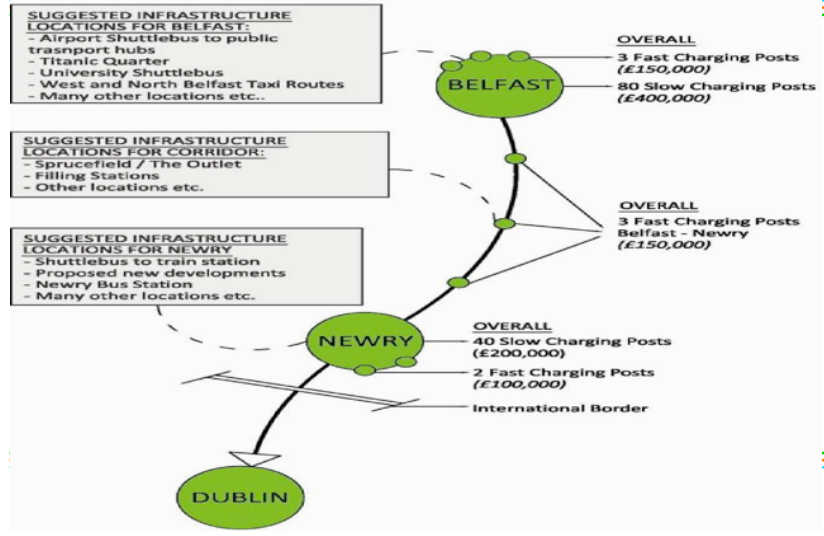


Seminar Series
26th January - 9th March 2010

Date	Seminar Titles	Time	Venue
26-Jan	The Sustainable Town	9am - 4pm	Greenshoots, Greenbank Ind Est. Newry
28-Jan	Energy From Waste & Waste Management	9am - 4pm	Greenshoots, Greenbank Ind Est. Newry
02-Feb	Sustainable Building Design	9am - 4pm	Greenshoots, Greenbank Ind Est. Newry
04-Feb	Energy Management	9am - 4pm	Greenshoots, Greenbank Ind Est. Newry
09-Feb	Bio-Energy	9am - 4pm	AFBI Hillsborough
11-Feb	Solar and Geothermal Energy	9am - 4pm	Greenshoots, Greenbank Ind Est. Newry
16-Feb	Innovation in Energy Provision	9am - 4pm	Greenshoots, Greenbank Ind Est. Newry
18-Feb	Domestic Energy Soiree 1	6.30-9.30p.m.	Boardroom SRC Newry West Campus
25-Feb	Domestic Energy Soiree 2	6.30-9.30p.m.	Boardroom SRC Newry West Campus
23-Feb	Wind Energy	9am - 4pm	DKIT, Dundalk Co. Louth
26-Feb	Tidal and Hydro Energy	9am - 4pm	Greenshoots, Greenbank Ind Est. Newry & Openhydro Greenore Co. Louth
09-Mar	Sustainable Dev. & Renewable Energy	9am - 4pm	Lecture Theatre SRC Newry East Campus



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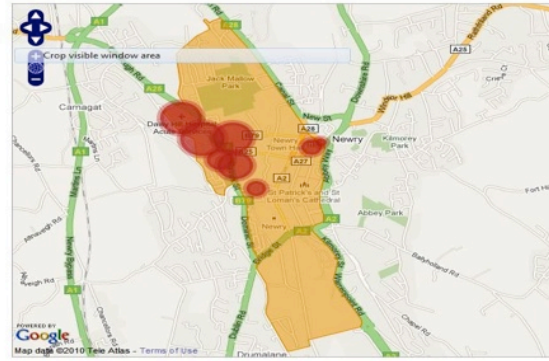


CARBONMAP

CARBON VISUALISATION SYSTEM

 Search

Map Data Stakeholders Sites



MAP LAYERS

- Carbon output
- Oil consumption
- Gas consumption
- Electricity consumption
- Low Carbon Zone

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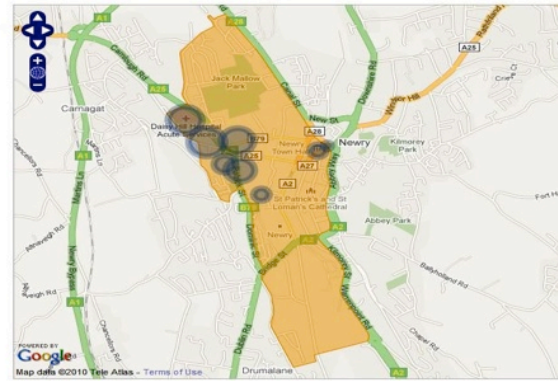
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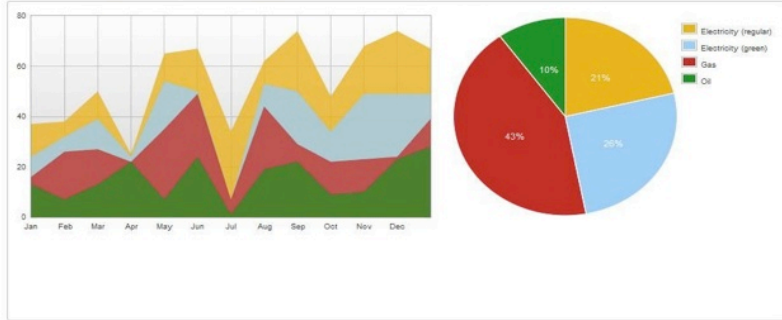


CARBONMAP

CARBON VISUALISATION SYSTEM

Map | **Data** | Stakeholders | Sites

Confederation of Community Groups | Ballybot House | 2009 | Chart view

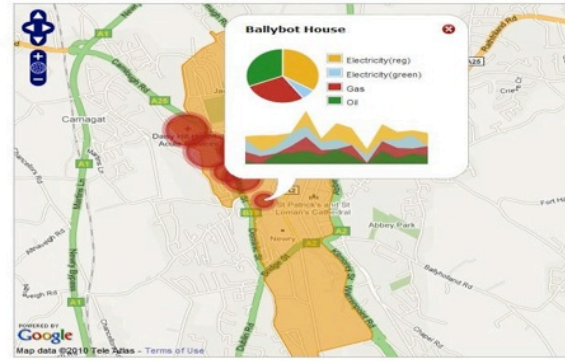




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- **Mobility**

- Replacement of combustion engines with electric equivalents
- Electrical vehicle recharge network and a purpose designed payment infrastructure
- Reduce congestion with increased electrified mass transit options

- **Buildings**

- Intelligent power and light systems
- Building climate control systems
- Micro generation and solar heating

- **Heating**

- High-efficiency heating/ cooling systems
 - Increased use of both micro and community combined heat and Power
 - Heating/cooling networks and storage
-
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Safety

- Increased access to real-time information, enabling a more safer, more effective environment and boosting operations efficiency

Water

- Metered usage, displaying historic and real-time consumption
- Potential for a range of new water service propositions and tariffs
- Smart-pipe networks to reduce leakage and manage pressure

Waste

- Increased waste-to-energy
- Power generation
- Waste data availability improves municipal and private waste management
- Incentives for recycling of high percentage of household and commercial waste

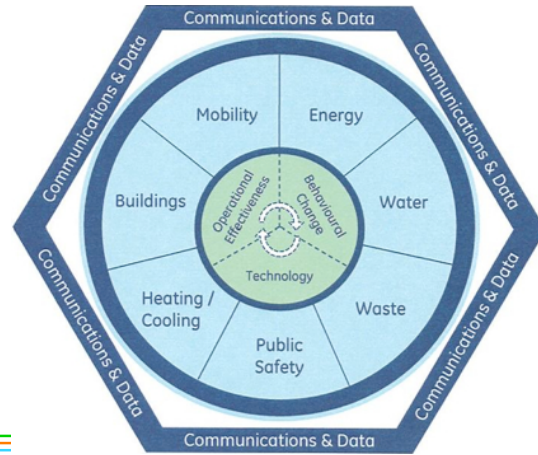


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Energy

- Historic and real-time energy data available
- Potential for a range of new energy services and tariffs
- Automatic system response to changing demand patterns





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- “Sustainability is here to stay or we may not”
- “The road to climate stability is straight and the solutions simple yet everyone is busy making them complicated”

