



PRESENTATION TO

Energy Conference, Cork 2005

Lifetime Lab: Restoration of Old Victorian Waterworks

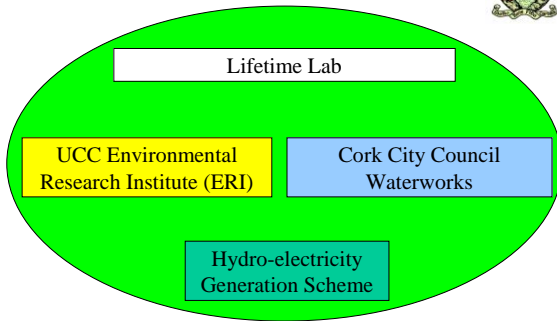
on Thursday, 22nd Sept. 05

By Michael O'Brien,
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Lifetime Lab



Lifetime Lab – 4 Elements



Environmental Research Institute (ERI)



- University College Cork - research institute for environmental issues.
- Holistic approach to environmental research.
- Unique building design.
- Site transferred from Cork City Council to UCC.

Cork City Waterworks



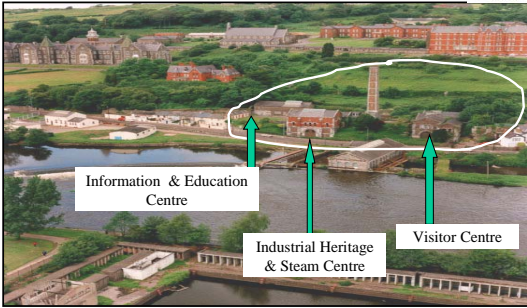
- Supplies water to the City of Cork.
- New 'state of the art' facilities under discussion.
- Suitable procurement route being investigated .

Hydro-electricity Generation Scheme



- The old turbines in this historic building (built circa.1888) have been refurbished to generate electricity.
- The 5 turbines produce up to 230kWh of electricity (1130 MW hr/annum).
- The electricity generated is supplied to Cork City Council for use in 132 of its accounts.
- Electricity for Lifetime Lab Campus will be supplied by this facility.

Lifetime Lab



Industrial Heritage & Steam Centre



- Buildings and equipment are of highly significant architectural & industrial heritage value (c. 1859-1905)
- Incorporates chimney, boilers and engines
- Facilities are partially restored and use to demonstrate the history of water supply in Cork City



Visitor Centre



- Old Engine rooms, boiler house and coal store (c. late 1850s) are converted into Visitor Centre.



- Target Audience
 - > Families
 - > School children
 - > Tourists
- Visitor Centre Theme - **Sustainable Living**
 - > Water
 - > Energy
 - > Nature
 - > Waste

Visitor Attractions



- Interactive linkage to ERI.
- Seminar, training and meeting facilities.
- 35-seat theatrette, with 'state-of-the-art' AV
- Outdoor demonstrations of small-scale environmental models and ecosystems.
- Education Centre (laboratory/work area).
- Outdoor children's play area - '*learning through play*'.

Information Centre



- This building has been refurbished to be used as an **Information Centre** for the provision of information to visitors on issues such as:



- Sustainable Lifestyle
- Energy
- Waste Management
- Sustainable Transport
- Air Quality
- Noise
- Water Quality

Education Centre



- This building is being refurbished and will be converted into an **Education Resource Centre**.
- The Centre's Education Officer will develop and deliver 5 to 6 science modules per annum for participating primary schools in Munster
- These modules will be developed in accordance with the new Social, Environmental and Scientific Education (SESE) Curriculum.



Lifetime Lab: Benefits



- Will conserve and restore site, buildings and industrial heritage equipment of recognised international value.
- A unique amenity within Cork City
 - ↓ Interactive
 - ↓ Modern
 - ↓ Educational
 - ↓ Recreation
- A Centre of Excellence - Sustainable Living
Quality of Life ← Environment
- A resource for teachers and schools.

Lifetime Lab



- Audiences:** Local, National and International
- Families
 - Schools
 - Third-level students and researchers
 - Tourists
 - Special Interest Groups
 - Conferences
 - Adult Education Groups

Industrial Heritage Equipment



Sustainable City Campus: Programme



Cork City
European Capital of Culture 2005

Lifetime Lab
Autumn 2005

Contact Details



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