



Sustainable Development in Further Education and Training

Case Study – Wind Energy and Wind Turbine Maintenance in Kerry ETB

Policy Background

- 2010 Expert Group on Future Skills Needs - Conceptualised, analysed and proposed recommendations for how the green economy in Ireland could be developed.
- “Green Economy” an area of potential business and employment growth in Ireland – Wind Energy as a significant component
- *Renewable Energies / Efficient Energy Use and Management / Water and Waste Water Treatment / Waste Management, Recovery and Recycling / Environmental Consultancy Services / Green ICT Applications/Software /Cleantech Clusters / Low Carbon Transport / Green Finance.*
- Government Policy / EU Policy Directives - Key drivers of the Green Economy
- The impact of Wind Energy – An Overview

Sustainable Development in the FET Sector

- In the FET sector sustainable education and training is carried out in a range of settings including; ETB further education colleges, ETB training centres, through the SOLAS managed initiatives, and through Skillnets.
- Impact of the downturn in the construction sector and impact on traditional apprenticeship.
- Overall the FET Sector has focused on renewable energies and efficient energy.
- In 2015 there were over 1,000 Trainees and Learners engaged in Education for Sustainable Development related Further Education and Training programmes and related programmes offered through the ETBs.

Types of Education and Training

- Training Centres: Provision in Dublin, Cork and Kerry Training Centres for courses in Solar Hot Water Systems Installation, Domestic Thermal Insulation and Large Scale Wind Turbine Maintenance.
- Training/Courses include – Microgeneration / Heat Generation Technologies / Power Generation / Passive House Construction / Domestic Thermal Insulation / Rainwater Harvesting / Air Tightness in Buildings
- Another strand of provision in the FET publicly funded sector is carried out in FE colleges mainly through the PLC funding stream.



FET Training and PLC Provision

- **ESD Course Participants – Training Centres**
- **Athlone**
- Domestic Solar Hot Water Systems Installation
- **Ballyfermot**
- Air Tightness Testing & Measurement - Short Course
- Airtightness in Sustainable Construction
- Building Services Insulation for Sustainable Construction
- Certificate in Sustainable Construction
- Domestic Biomass Heating Installation
- Domestic Solar Hot Water Systems Installation
- Domestic Thermal Insulation - Short Course
- Energy in Buildings
- Fascia, Soffit, Gutter & Rainwater Harvesting Installation - Short
- Sustainable Waste Management
- Sustainable Water Use and Harvesting
- **Cork**
- Domestic Solar Hot Water Systems Installation
- Domestic Thermal Insulation - Short Course
- **Finglas – External Training (Passive House)**
- Passive House Construction - Building Envelope
- Passive House Construction - Mechanical Systems
- **Finglas**
- Electrical Microgeneration
- Micro Solar PhotoVoltaic Systems Implementation
- Small Scale Wind Systems Implementation
- **Tralee**
- Large Scale Wind Systems
- **Post Leaving Certificate**
- **Pearse College, Dublin**
- Architectural Technology
- Sustainable Construction Technologies
- Computer Aided Design
- Amenity Horticulture
- Organic Horticulture
- Sustainable Landscapes
- Food Science
- **St. John's Central College, Sawmills St, Cork**
- Sustainable Energy Building Systems
- Sustainable Technology
- **Kinsale College of Further Education**
- Sustainable Horticulture/Permaculture
- Horticulture
- **Cavan Institute**
- Renewable Energy and Control Systems
- Renewable Energy and Automation
- **Dun Laoghaire DFEI**
- Architectural Technology and Design
- Energy Efficient Building
- **Colaiste Dhúlaigh**
- Renewable Energy Practices
- Architectural Design and Technology
- Horticulture
- Outdoor Education
- **Galway Technical Institute**
- Construction Technology/Sustainable Building and Renewable Energies
- Architectural Technology and Design

Case Study – Kerry ETB

- Sustainable Development in Practice
- Wind Turbine Maintenance
- Overhead Lines Technician
- Complimentary Traineeships delivering on Sustainable Development

Conclusion - The Challenges

