

Wind Energy Auto-Production



Presenter: Frank Wilson

Venue: Hotel Kilkenny

Date: 15th May 2009

www.ceramicx.com

Ceramicx Background

- Set-up in 1992
- Design and Manufacture of Infrared Heating Products and Systems.
- Exports 98% of goods to 63 countries
- Products include:
 - Ceramic Element Production
 - Quartz Medium Wave Production
 - Quartz Tungsten/Halogen Production
 - Applications Engineering Systems Building
 - Dust Press Components
- For more Info See www.ceramicx.com

Value of Auto-Production

- Ireland expensive place for manufacturing
- Ceramicx Ireland have to constantly improve automation and productivity to remain competitive.
- Ceramicx Ireland can gain competitive advantage by significantly reducing the cost of energy.
- Ceramicx Ireland can also gain significant PR advantage.

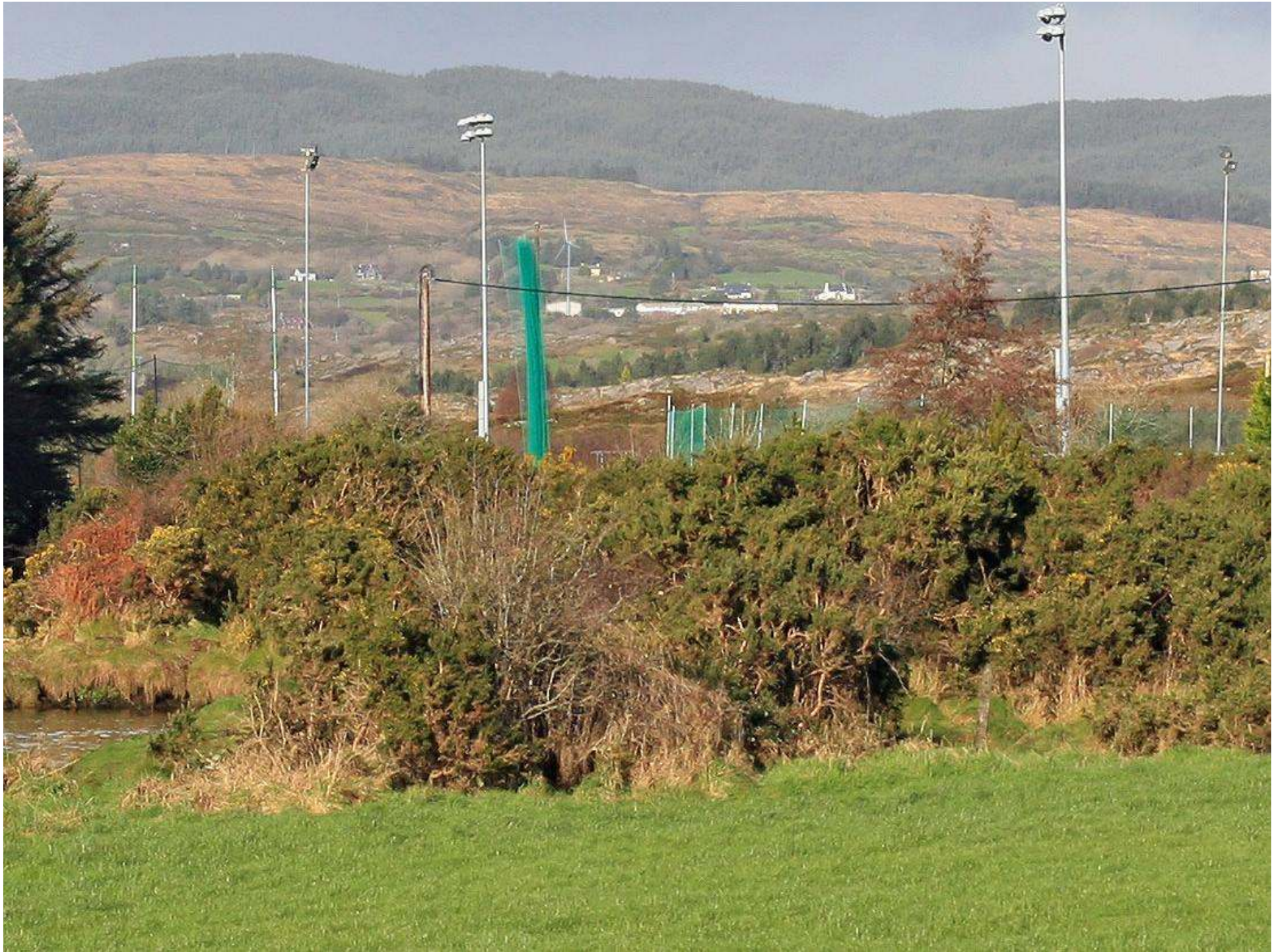
Projected Energy Costs

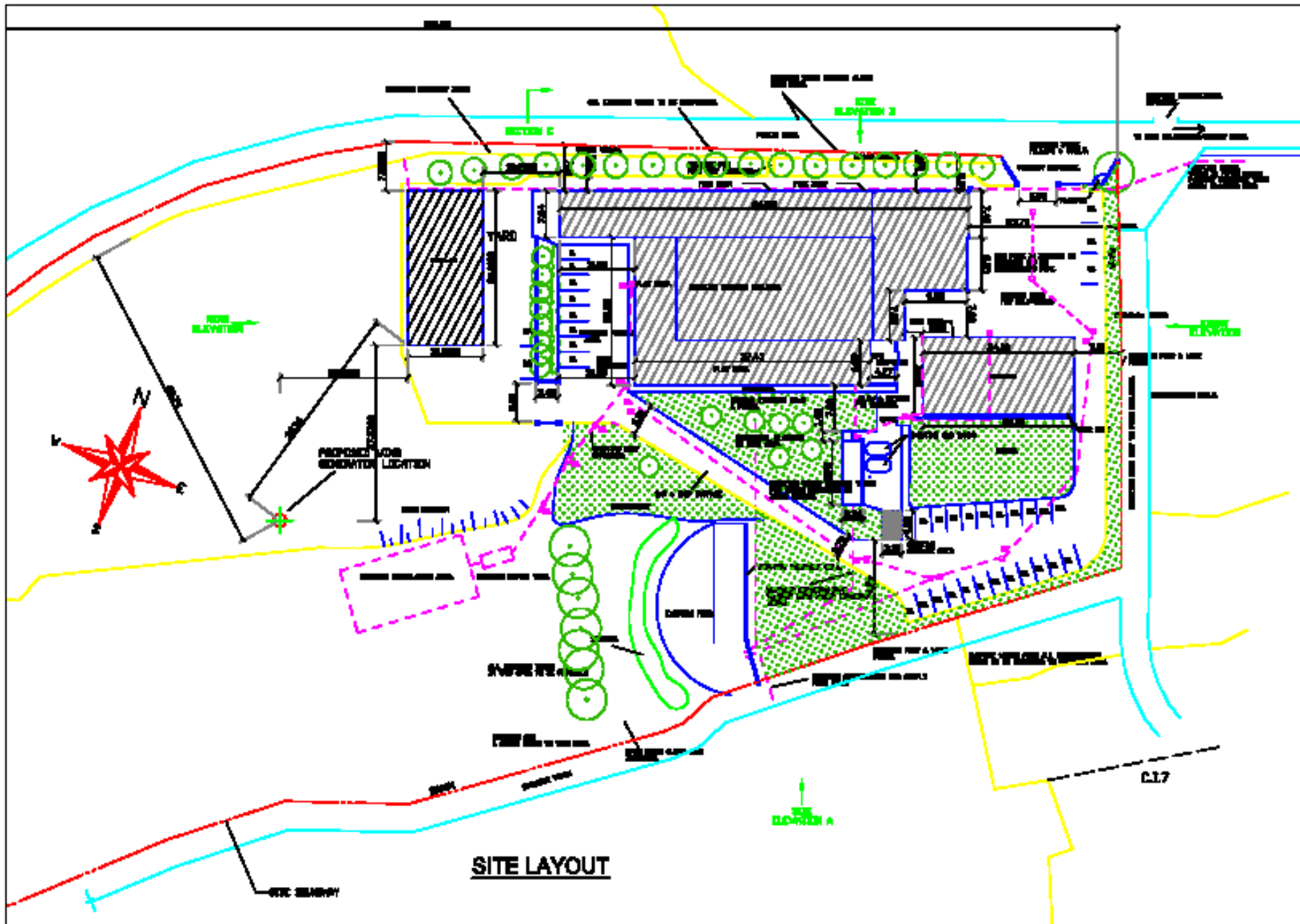
- Experts are describing current downturn with oil and gas costs as a “blip”
- Energy demand currently growing at 1.5% annually.
- Shift to deep-water sources are going to increase costs significantly with some large wells costing an additional \$2billion to develop because they are underwater.

Wind Turbine for Auto Power Generation

- Proposed development of wind turbine for auto power generation for part running of production facility.
- Turbine to have a 30m hub height.
- Planning application sent on 3rd April 2009.
- Returned with comments and is currently being amended.
- View of proposed turbine from the bridge in Ballydehob of factory and turbine







SITE LAYOUT

Current Energy requirements

Current energy usage €5000/month

Varying turbine ratings

- 130kW output rating
- 26m hub height
- €25,000 per unit
- 3m/s to 25m/s wind speed
- 130kW @ 30% efficiency
- 39kW average output
- Up to €1000/month in savings
- 300kW output rating
- 31m hub height
- €70,000 per unit
- 4m/s to 25m/s wind speed
- 300kW @ 30% efficiency
- 90kW average output
- Up to €2500/month in saving

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Thank you for Listening!!!

Any Questions???

Infrared Ceramic & Quartz
Heating Systems for Industry

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