



Background

Narec on behalf of Tees Valley Regeneration conducted a review of various low carbon and renewable energy technologies suitable for the new 133.5 hectare mixed use development site in Hartlepool - 'Victoria Harbour.' The scheme is a £500m joint development project between Tees Valley Regeneration and land owners PD Ports, Logistics & Shipping.

Project Outline

Narec carried out a comprehensive financial and technical feasibility assessment of the energy requirements of the site and considered the various low carbon and renewable energy options available for achieving these in the most sustainable way.

Project Outcome

Following the assessment Narec's recommendations included the installation of district heating based upon gas CHP with some plots having ground source heat pumps. This solution resulted in a 43% reduction in energy requirements and a commercial payback of 5.3 years.

The long term roll-out of the project was also examined, this included capital costs and Return on Investment (RoI); as a result, it was concluded that the developer should initiate an Energy Services Company (ESCO) to supply heat and power at commercial rates.

The Victoria Harbour Energy Review Project is an excellent example of innovative architectural design combined with sustainable low carbon and renewable energy technologies.

Advancing Renewable Energy

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