

**TRIDENT PARK ERF, CARDIFF**  
**EUROCLAD LIMITED**



In a first of its kind in Wales, Viridor's Energy Recovery Facility (ERF) in Cardiff is creating both electrical energy and a renewable energy district heating system. Trident Park ERF is capable of handling 350,000 tonnes of residual waste, or post-recycling waste, per year, generating 30MW of electricity- enough to power around 50,000 households. In addition to the electricity, the facility will generate the heat and high-grade system that supports a district heating network that will add an additional 20MW to the plant's energy output.

Of the 35,000 tonnes of waste, some 172,000 tonnes will come from the five local councils that make up the Prosiect Gwyrd partnership: Cardiff, Newport, Monmouthshire, Vale of Glamorgan and Caerphilly.

The £223 million project began in May 2012 and supported some 600 workers at its peak, with 40 percent coming from the local community. Working man-hours on the project totalled over 1.6 million and with only one lost-time accident during the entire project, it was rated amongst the safest construction projects worldwide.



Tata Steel Projects, working with main contractor Lagan Construction, acted as the lead designer for the facility and the site was never going to be the easiest to develop. The geotechnical review initially identified poor ground conditions across the site. Due to the proximity to Cardiff Bay, the site has a high-water table, resulting in the requirement for a central 14m deep, 16m x 48m secant wall waste bunker.

Euroclad supplied over 21,000 square metres of ElitePLUS 4 roofing, as well as Vieo feature cladding and non-combustible insulated wall panels from sister company Eurobond. Elite standing seam systems are designed as 'zipped' constructions over supporting halters. The system is designed to move freely under thermal expansion, creating no stress on the seams. The outer sheets joint system is also designed to breathe, removing the need for additional breather membrane or building paper.

Donald Renfrew, head of Construction Health and Safety at Viridor said, "I would like to thank and congratulate everyone working on-site for their on-going commitment and excellent work to ensure safe and timely delivery of this project. The individuals working on site have taken a proactive and collective approach to Health and Safety, which I am sure has been a key factor in the safety record of the project to date."



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