

Windmill Hill Business Park, Met Mast

Client Name: Npower Renewables Ltd

Project Value: £200,000

Scope of Work: Decommissioning of MM30 Met Mast and removal of Screw Pile Base and Grillage with intention of reusing components.

Challenges

- **Reusability:** The screw piles were to be removed with the intention of being reused for another project, demanding precision and care during extraction to maintain their integrity.
- **Environmental Restoration:** Ensuring the site was left in its original condition after the removal of the screw piles required effective ground restoration to minimise impact and maintain the landscape.



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Solutions

FLI successfully decommissioned the met mast, carefully extracting the screw piles and grillage for reuse. These components were repurposed and sent to Ferrybridge for a new project, demonstrating the sustainability and adaptability of screw pile solutions.

- **Bentonite Grout Filling:** Holes left by the removed screw piles were filled with bentonite grout to stabilise the ground.
- **Minimal Landscaping:** The compacted ground required only minimal landscaping, leaving the site seamlessly restored to its natural state.



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Results

- **Sustainability:** Screw piles and grillage components were successfully reused at Ferrybridge, aligning with sustainability goals by reducing material waste.
- **Minimal Environmental Impact:** The site was restored to its natural state, with no detectable signs of disturbance.
- **Demonstrated Reusability:** This project highlights the potential for screw piles to be repurposed, offering an eco-friendly solution for temporary or evolving project needs.

This project exemplifies how screw piles, while designed for permanent solutions, can be removed and reused when needed. Although this example dates back to 2008, it remains one of the few cases, as the enduring nature of screw pile foundations typically negates the need for removal.

