



LRES-UK™

case study

Industry: Energy-from-Waste (EfW)
Locations: Encyclis, Enfinium & Thalia
Rope Access teams

Specialist Rope Access Solutions on EfW Sites: Case Study on Encyclis, Enfinium & Thalia

Overview:

LRES-UK was tasked with providing specialist rope access solutions across three key Energy-from-Waste (EfW) sites: Encyclis, Enfinium, and Thalia. These projects required highly skilled operatives to perform essential maintenance and cleaning operations in challenging environments where traditional access methods were not feasible. By leveraging our expertise in rope access techniques, LRES-UK ensured that each site remained operational while undergoing critical maintenance, reducing the need for costly and time-consuming scaffolding solutions.

Energy-from-Waste facilities present complex working conditions, with high structures, confined spaces, and hazardous environments that necessitate innovative access solutions. At these sites, our rope access teams played a vital role in executing high-level inspections, deep cleaning, and essential maintenance work in a safe and efficient manner. By combining advanced rope access methodologies with industry-leading safety practices, LRES-UK was able to deliver high-quality results while adhering to strict regulatory standards and minimising downtime.

Objective

- **Ensure safe and efficient** high-level maintenance and inspections without the need for extensive scaffolding.
- **Minimise operational downtime** and disruptions at each Energy-from-Waste facility.
- **Enhance safety compliance** by deploying trained rope access specialists in hazardous environments.
- **Provide cost-effective solutions** that reduce overall maintenance expenditure.

Solution

- **Highly Skilled Rope Access Technicians:** IRATA-certified professionals performed all tasks to the highest safety and efficiency standards.
- **Innovative Access Strategies:** Customised rope access plans tailored to each site's structural and operational challenges.
- **Minimal Disruption Approach:** Work carried out while ensuring ongoing plant operations were unaffected.
- **Comprehensive Safety Measures:** Strict adherence to safety protocols, including PPE, risk assessments, and emergency rescue plans.



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Project Scope & Challenges

Each site presented unique challenges, requiring tailored rope access solutions to ensure operational efficiency, safety compliance, and minimal downtime.

Encyclis

- **Scope:** High-level boiler cleaning and structural inspections.
- **Challenges:** Limited access points and confined spaces demanded precise rope access techniques.
- **Solution:** Utilised IRATA-certified rope access technicians to conduct targeted cleaning and maintenance, ensuring minimal disruption to plant operations.

Enfinium

- **Scope:** Economiser and ducting inspections alongside critical maintenance tasks.
- **Challenges:** The site required work at extreme heights with limited anchorage points.
- **Solution:** A combination of rope access and confined space entry enabled efficient inspection and debris removal, improving plant performance and reducing potential failure risks.

Thalia

- **Scope:** High-risk maintenance within the boiler hall and external façade cleaning.
- **Challenges:** Working at height in an environment with high dust accumulation and extreme temperatures.
- **Solution:** Implemented a comprehensive access plan incorporating rope access and controlled descent techniques to carry out detailed inspections and ensure compliance with safety regulations.

Results & Key Benefits

Enhanced Safety: By eliminating the need for scaffolding, rope access significantly reduced the risk of falls and improved overall site safety.

Cost-Effective Solutions: The use of rope access reduced downtime and minimised costs associated with traditional access methods.

Improved Efficiency: Critical maintenance tasks were completed faster, ensuring that each EfW facility continued to operate at peak efficiency.

Compliance & Reporting: Detailed inspection reports were provided for all three sites, ensuring full compliance with industry standards.

Key Learnings

- **Adaptability is Essential:** Each site presented distinct challenges, reinforcing the importance of tailored rope access strategies.
- **Efficient Planning Minimises Downtime:** Proactive coordination with site teams ensured minimal disruption to plant operations.
- **Safety is the Top Priority:** Strict adherence to IRATA standards and safety protocols resulted in incident-free project execution.
- **Comprehensive Reporting Aids Future Maintenance:** Detailed reports provided valuable insights for ongoing and future maintenance planning.

Conclusion

LRES-UK's expertise in rope access solutions proved invaluable in delivering safe, cost-effective, and efficient maintenance services across the Encyclis, Enfinium, and Thalia sites. By leveraging skilled operatives and industry-leading techniques, LRES-UK ensured the successful completion of each project with minimal disruption to operations.

For more information on how LRES-UK can support your site with specialist rope access solutions visit: www.lres-uk.co.uk.

