



LRES-UK™

case study

Industry: Energy-from-Waste (EfW)
Location: Newhurst EfW Plant
Onsite Team: 3-man team from LRES-UK, led by Alex Wilson
Duration: 10 months onsite, with 2.5 years of overall experience with LRES site teams

Case Study: Onsite- team Enhancing Site Efficiency and Reducing Downtime at Newhurst Energy-from-Waste Plant

Overview:

At the Newhurst Energy-from-Waste plant, operational efficiency and equipment reliability are paramount. For the past 10 months, Site Supervisor Alex Wilson and his team have been instrumental in providing essential maintenance and support across the entire site, ensuring that the plant continues running smoothly.

Their work, which follows a detailed 2-week scope of works, not only focuses on key areas like the boiler hall but also spans the entire facility. This comprehensive approach has significantly reduced downtime, improved plant maintenance, and strengthened the relationship between LRES-UK and the site's operations team. Onsite works include Site FLT duties, IBA belt clean, hopper deck clean, site drainage, site tank cleaning, general clean/de-dusting, turbine hall general clean, and operations assistance.



Objective

- **Minimise Downtime:** Reduce the impact of equipment blockages and breakdowns to ensure continuous operation of the plant.
- **Improve Plant Maintenance:** Implement a proactive maintenance strategy to prevent failures and extend equipment lifespan.
- **Reduce Operational Costs:** Lower the plant's operational expenses by minimising downtime and optimising maintenance practices.
- **Strengthen Client Relationships:** Foster a positive, collaborative relationship with the client to enhance teamwork and communication.



Solution

- **Minimise Downtime:** The LRES team implemented a rapid response strategy, addressing any blockages or breakdowns as soon as they occurred. Their immediate availability ensured that downtime was minimised, and the plant remained operational.
- **Improve Plant Maintenance:** A rigorously followed 2-week scope of works covers all critical site areas, enabling the team to address potential issues early and maintain plant systems effectively.
- **Reduce Operational Costs:** Through proactive maintenance and immediate response to breakdowns, the team was able to prevent major disruptions and reduce the frequency of costly repairs.
- **Strengthen Client Relationships:** By working closely with the site's operations team and maintaining open lines of communication, the LRES team continues to build strong, positive relationships with the client.



Visit : lres-uk.co.uk

Overview



LRES-UK™

On-call industrial cleaning

LRES-UK provide on-site teams which regularly undertake cleaning tasks such as on-site conveyor belt cleaning, grate cleaning, removing debris, cleaning girders and beams, rodding and drainage cleaning, plus hazardous waste removal. Our on-site teams can reactively work during breakdowns or work around your scheduled so not as to impact your down-time.

Challenges

The Newhurst plant faced several operational challenges that required immediate attention:

- **Frequent Blockages:** Numerous ash extractor blockages, 2nd and 3rd pass boiler blockages, economiser ash blockages, and APCR blockages were causing costly delays.
- **Sump and Tank Cleaning:** Regular maintenance of critical components, such as drain gully sump cleans and boiler drain tank cleans, was essential to avoid potential breakdowns.
- **On-Demand Response:** With the possibility of unexpected breakdowns, the LRES onsite team had to remain on standby at all times to support the site operations team, ensuring that equipment was back online quickly.

Strategy

To address these issues, the LRES team followed a structured and proactive strategy:

- **Detailed 2-Week Scope of Works:** A comprehensive maintenance plan was implemented that covered the entire site, beyond just the boiler hall. This scope of works allowed for systematic inspection, cleaning, and maintenance of key plant components.
- **On-Standby Support:** The team is committed to being on standby to assist the site operations team with any maintenance or emergency needs. This readiness ensures that any issues are addressed swiftly, reducing the risk of extended downtime. emergency breakdowns, such as ash extractor and boiler blockages, sump cleans, and other critical tasks. This immediate response capability helped minimise operational downtime.
- **Collaboration with Site Operations:** The team worked closely with the site's operations crew to ensure a seamless integration of their work. This collaboration allowed for quick identification and resolution of issues, resulting in faster recovery times during breakdowns.

Conclusion

The onsite team at Newhurst has demonstrated over the past 10 months the value of having a dedicated, experienced crew to maintain plant operations and respond to breakdowns. Their detailed scope of works, on-demand support, and strong collaboration with the site team were key factors in improving operational efficiency, reducing downtime, and enhancing client relationships. This case study highlights how a proactive, well-trained team can contribute to the long-term success of an energy-from-waste plant.

GALLERY

