

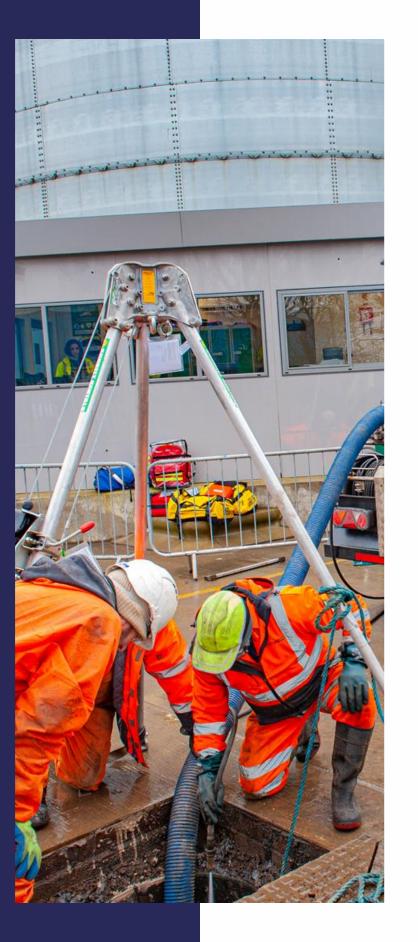
Health & Safety for Energy from Waste (EfW) & Biomass Plant Outages and Shutdowns:

Processes & Procedures for Optimum Results

Ethan Parker - HSEQ Manager

September 2025

Introduction







Objective

 To inspire and guide teams in implementing robust health and safety measures during EfW and Biomass plant outages and shutdowns for outstanding results.



Why It Matters

- Getting it right the first time –
 reducing operational downtime
- Driving operational efficiencies through safety-first practices
- Building a culture of accountability and resilience

Introducing Augean & Future Industrial Services

Augean specialises in managing hard to handle wastes and specialist industrial services

We have UK waste treatment and disposal infrastructure – 22 sites in the UK

We focus on delivering best environmental outcomes

We are a market leader in the treatment of APCr, Fly Ash and other residues from UK EfW & Biomass Plants as well as specialist industrial services





Introducing Augean & Future Industrial Services

Acquired by Augean in 2023, Future Industrial Services (FIS) is a market leader providing Specialist Industrial Cleaning with 7 sites across the UK

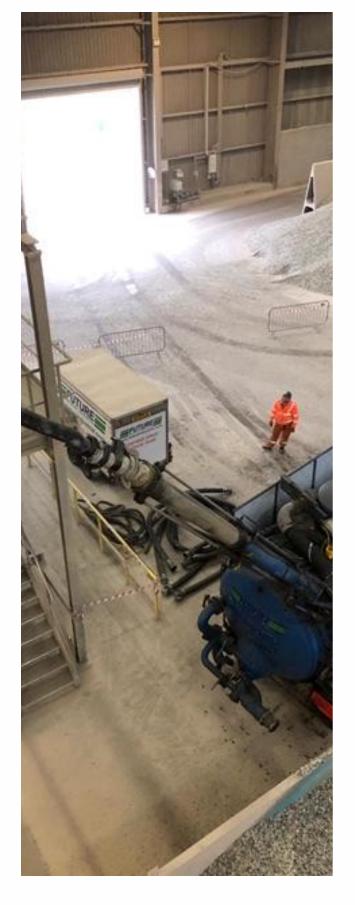
We provide Specialist Industrial Services for EfW and Biomass plants

We have serviced over 23 plants in the last 12 months

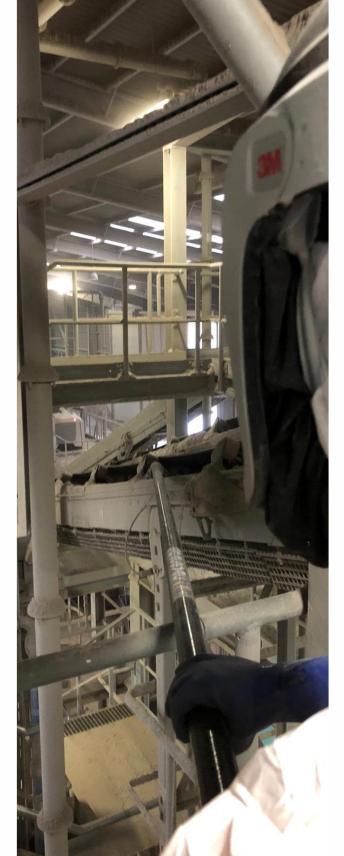
Typical scope of specialist cleaning works includes boiler grate, discharger, boiler passes economiser, siftings, FGT, baghouse, and silos







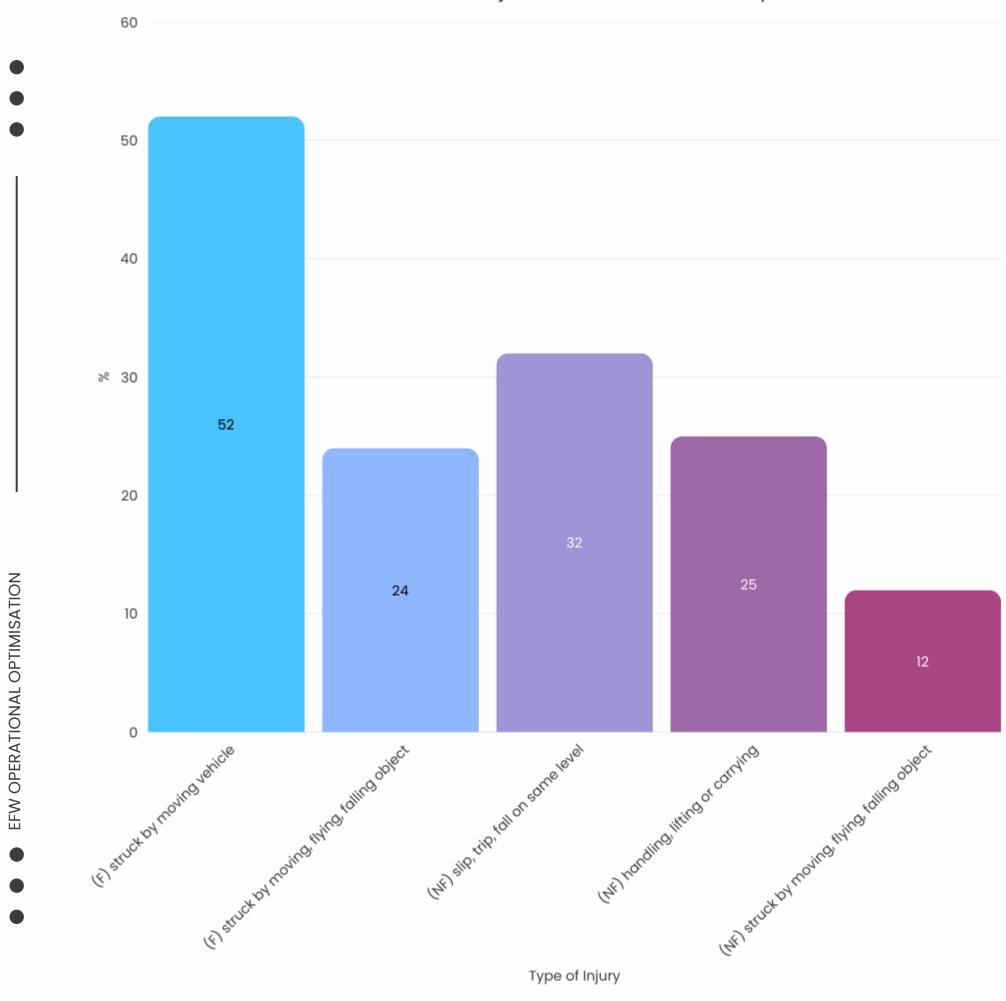






Key Challenges

- Hazardous Environments
- Complex Co-ordination
- Time Pressure Critical Path
- Regulatory Compliance



Waste Sector Industry Statistics

Fatal (F)

- 52% deaths classified as struck by a moving vehicle
- 24% were classified as struck by a moving, flying or falling object
- *HSE past 5 years

Non-Fatal (NF)

- 32% injuries sustained from a slip, trip, fall on the same level
- 25% injured while handling, lifting or carrying
- 12% struck by moving, flying or falling object

*HSE past 7 years

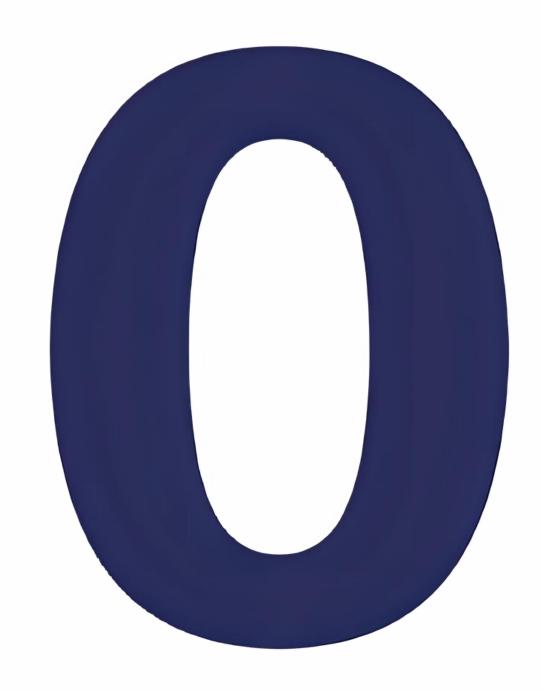












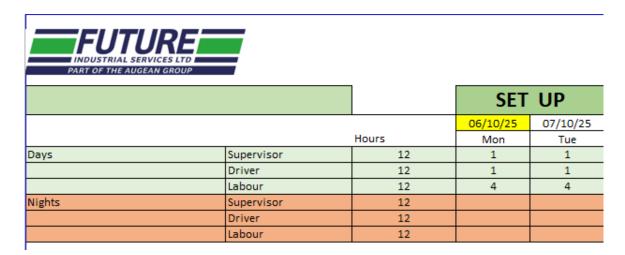
Our LTIFr for EfW & Biomass Plant Sector

rolling 12 months



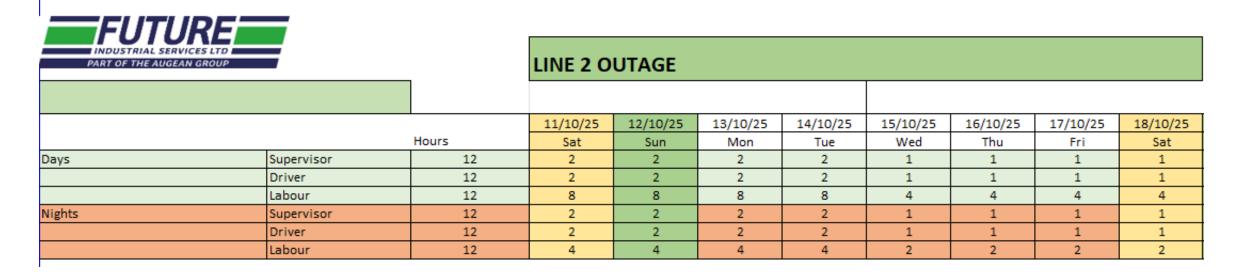
Our Core Health & Safety Processes

- Pre-Outage Risk Assessment and Planning
 - RAMS
 - Planner
- Permits to Work (PTW)
- Emergency Preparedness





			LINE 1 OUTAGE		
		•	08/10/25	09/10/25	10/10/25
		Hours	Wed	Thu	Fri
)ays	Supervisor	12	1	1	1
	Driver	12	1	1	1
	Labour	12	4	4	4
Vights	Supervisor	12	1	1	1
	Driver	12	1	1	1
	Labour	12	2	2	2





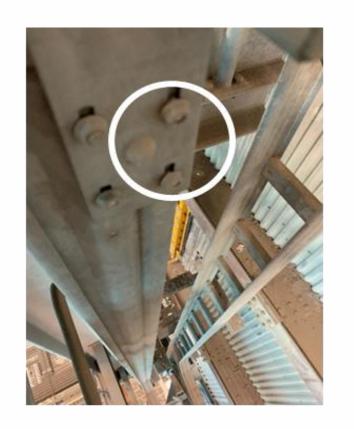
How We Stand Out in the Market

Our Model for Optimum Results

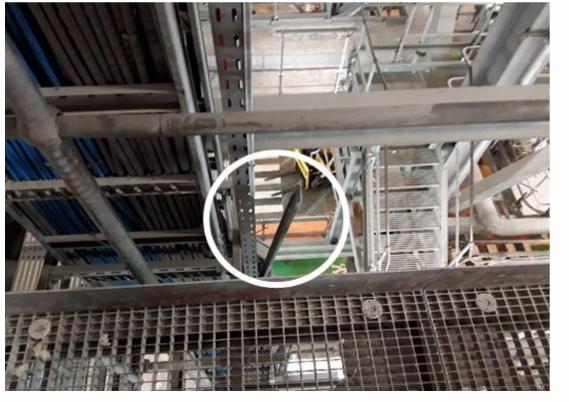
Pre-Shutdown Preparations	During Shutdown	Post-Shutdown Review
✓ Training	✓ Monitoring	✓ Lessons Learnt
✓ Equipment Checks	✓ Communication	✓ Set New Benchmarks
✓ RAMS / Shutdown Planner	✓ Compliance	✓ Visibility SiteInspectionReports

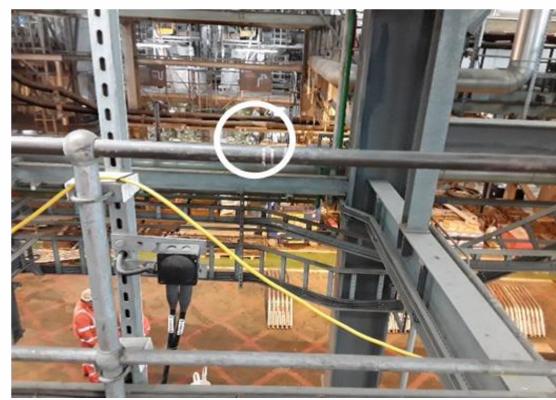
FUTURE PART OF THE AUGEAN GROUP

Safety: Hazard Spotting





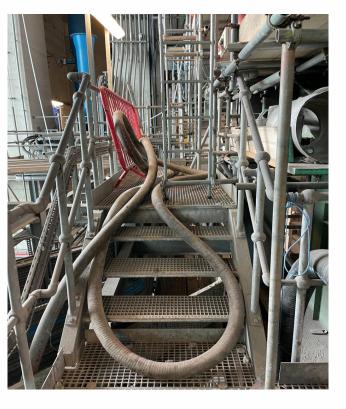






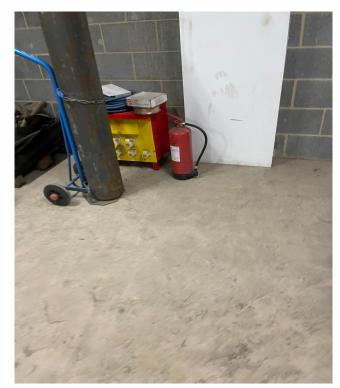


Safety: Hazard Spotting

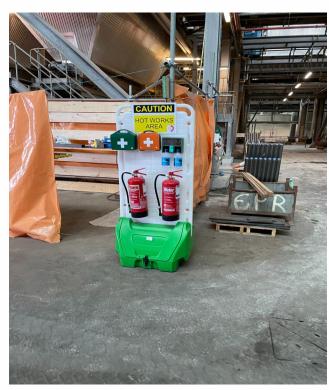














Our Compliance & Best Practice

- Regulatory Standard
- Best Practice
- Open Communication Encouraging Near-Miss Reporting



Case Study Controlling APCr Hazards on Site



Challenge:

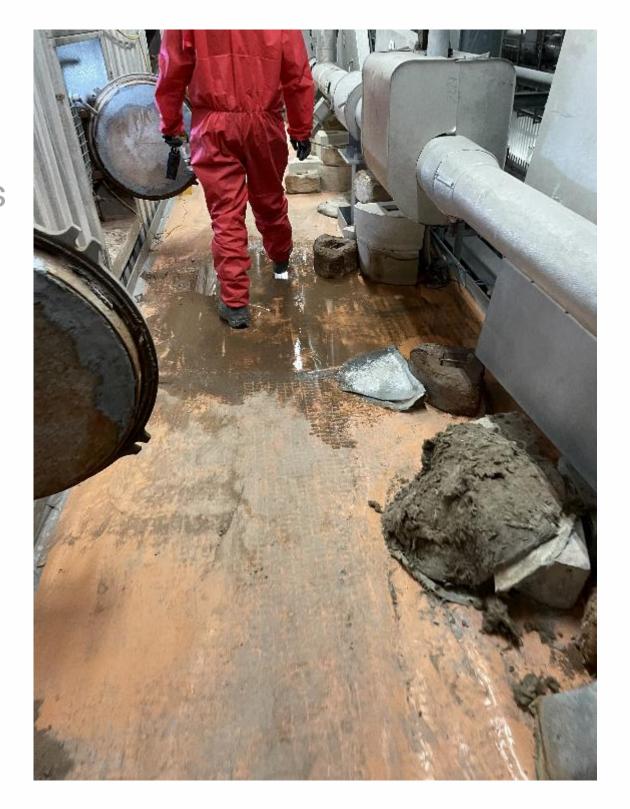
• When exposed to gratings on site, Air Pollution Control Residues (APCr) can cause metal surfaces to deteriorate and become dangerously slippery, increasing the risk of accidents and equipment damage.

Solution:

• FIS introduced the use of protective sheeting and carpets as a control measure. These materials effectively cover gratings and other exposed surfaces, preventing direct contact with APCr.

Outcome:

 Reduced Hazards: The sheeting and carpets control the risks associated with both falling dust and APCr exposure.





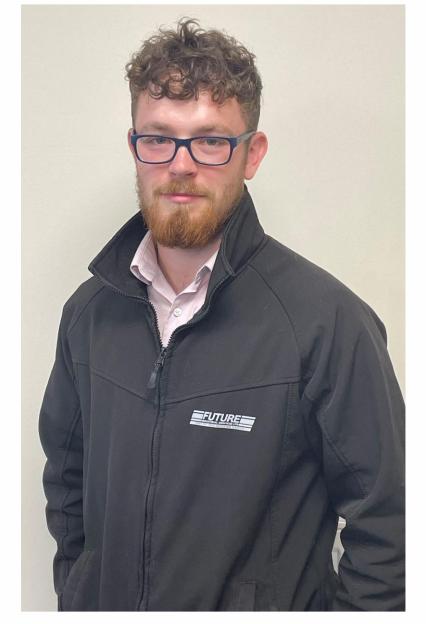
Emerging Trends

- Chrome VI contamination in the boiler
- Extended operating conditions leading to higher activity during outages
- Increasing EfW presence in the UK requires more industrial services and potential risks of utilising agency staff during periods of multiple outages
- Robotics and Al

FEW OPERATIONAL OPTIMISATION

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CLIENT LIAISON



Thank You

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