

EHS INTEGRATED MANAGEMENT SYSTEM				 IGC INSPIRED GLOBAL CUISINE		
RESOURCE EFFICIENCY, ENERGY & CLEAN CHANGE MANAGEMENT PLAN						
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1. Purpose

This Management Plan defines the operational, technical and monitoring controls in place to ensure efficient use of energy and resources, minimise greenhouse-gas emissions, and demonstrate compliance with ISO 14001, BAT for the Food & Drink Sector, and EA permit requirements. It applies to all utilities, storage areas, cold stores, and production operations at the Oldham Manufacturing Facility.

This plan links directly to:

- EHS IMS 7.5 Control of Documented Information
- EHS IMS 9.1.1 Monitoring, Measurement & KPI Procedure
- EHS IMS-C 8.2.3 Surface Water & Environmental Protection Plan
- EHS IMS-C 8.2.4 Odour Management Plan
- EHS IMS-C 8.2.5 Noise & Vibration Management Plan
- EHS IMS-C 8.2.11 Air Quality Management Plan

2. Roles and Responsibilities

Role	Responsibilities
Environmental Compliance & TACCP Manager	Oversight of resource efficiency, KPI tracking (ref. EHS-IMS 9.1.2), EA permit compliance, monitoring and reporting.
Engineering Services Manager (BOAS Certified)	Operational control of boilers, steam systems, CO ₂ plant and ammonia refrigeration systems (ref. EHS-IMS-C 8.2.11).
Engineering Team	Execution of PPM, optimisation checks, repairs, energy performance improvements (ref. EHS-IMS 8.1 Operational Control).
Operations & Shift Leaders	Ensure efficient use of equipment, compliance with shutdown/start-up procedures aligned with EHS-IMS 8.1.2.
All Employees	Follow energy awareness training and shutdown rules (ref. EHS-IMS 7.2 Competence & Awareness).
External Contractors	Provide specialist maintenance for refrigeration, BMS, electrical systems and boilers (EHS-IMS 8.1.4 Contractor Controls).

3. Description of Energy-Intensive Active

Major energy users include:

- 2 Energy Efficient Cochran steam boilers (no economiser installed)
- Ammonia refrigeration systems (total charge <650 kg)
- CO₂ chillers
- HVAC, ventilation and compressed air systems
- Production cooking, chilling and freezing operations
- Chilled, frozen and ambient storage systems
- Automated LED lighting and integrated BMS

4. Basic Measures for Improving Energy Efficiency

Implemented measures include:

- High-efficiency boiler combustion controls
- High-efficiency CO₂ and ammonia refrigeration systems
- IE3/IE4 motors and VSDs
- Automated LED lighting
- Integrated BMS controls

5. Heat Recovery and Re-use

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Refrigeration heat-recovery for underfloor frost protection

- Insulated pipework and steam lines
- Closed-loop condensate return
- Future heat-recovery expansion planned

6. Building Management System (BMS) Controls

BMS controls:

- Boiler sequencing
- Refrigeration optimization
- Automated HVAC and ventilation
- Lighting controls

7. Energy Monitoring, KPIs and Reporting

Data is recorded and reviewed under:

- EHS-IMS 9.1.1 Monitoring, Measurement & KPI Procedure
- EHS-IMS 9.1.2 KPI Dashboard
- EHS-IMS 9.1.3 Compliance Evaluation

With variances >10% investigated via Corrective Actions:

- EHS-IMS 10.2 Nonconformity & Corrective Action

8. Renewable and Low-Carbon Measure

A 3 MW solar PV system is being installed at Oldham, reducing grid import.

9. Water, Steam and Thermal Efficiency

Controls include:

- Insulated steam lines
- Automated boiler TDS control
- Annual steam-trap survey

10. Operational and Behavioural Controls

Scheduling efficiencies

- Shutdown procedures
- Employee awareness

11. Preventative Maintenance Programme (PPM)

- Boilers

This refers to the full steam boiler system,

It includes:

- the boiler shell
- burner
- combustion chamber
- steam & feedwater valves

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- controls and safety interlocks
- blowdown system
- feedwater pumps
- steam distribution connections

These components require regular inspection, servicing, and safety tests.

- Gas trains,

The gas train is the full assembly of gas control components that supply natural gas to the boiler burner.

It includes

- Main gas isolation valve
- Gas filters
- Pressure regulators
- Gas flow meters
- Safety shut-off valves
- Slam-shut valves
- Pressure switches (high & low gas pressure)
- Ignition system
- Flame detection system

These are critical safety components that ensure:

- The correct gas pressure reaches the burner
- The burner cannot fire if unsafe conditions exist
- The boiler shuts down safely if a fault occurs
- Gas flow is regulated accurately for efficient combustion

A failure in the gas train can cause unsafe combustion, boiler outage, or safety risks. This is why manufacturers and insurers require regular PPM on the full gas train.

- Refrigeration systems
- HVAC
- Lighting controls
- BMS

12. Climate Change Adaptation Measures

Includes:

- Attenuation ponds and penstock controls
- West Siphonics Roof Drainage System

13. Changes to Energy Use and Creation (Gorton to Oldham Transition)

Total energy consumption will increase at Oldham due to increased capacity and bringing all storage in-house. At Gorton:

- >90% of raw materials & packaging stored externally
- 100% finished product held in external cold storage
- Total of 800 pallet spaces on site

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At Oldham:

- All chilled, frozen and ambient storage in-house
- 100% of finished product stored onsite
- Over 26000 pallet spaces on site

Efficiency improvements due to:

- Integrated BMS
- LED automation
- CO₂ and ammonia refrigeration
- 3 MW solar PV
- Improved building insulation

14. Records and Documentation Control

Records stored under:

- EHS-IMS 7.5 Document Control
- EHS-IMS 9.1.1 Monitoring & Measurement
- EHS-IMS 10.2 Corrective Action Logs

15. Review and Continuous Improvements

Reviewed annually or following:

- Operational changes
- ESOS/SECR changes
- Energy performance deviations
- EA permit variations

16. Sign-Off

Title	Name	Signature	Date
Environmental Compliance & TACCP Manager	Matt Stott		18.11.2025
Senior Leadership Team	Adam Smith		18.11.2025