Horizon 2030 at Ipsen Wrexham

UK BioIndustry Association

HORIZON 2030 STRATEGY

People & Culture

Leveraging our **People & Culture** to deliver real change

Planet

Responsible stewardship of our **Planet** and the natural world

Products

Building Safety & Sustainability into the design of our **Products**

Partners

Working with our **Partners** to magnify our positive impact

Climate Commitments

- Commitment to 'Leading' 1.5° science-based GHG emission reduction target
- 50% reduction in GHG emissions (TCO2e) from our facilities & fleet (Scope 1 & 2)
- 20% reduction in GHG emissions (TCO2e) from our upstream & downstream value chain (Scope 3)
- Compensate for unabated emissions with credible & verified offset projects

2024 Key Initiatives

Plant Steam Boiler Optimisation

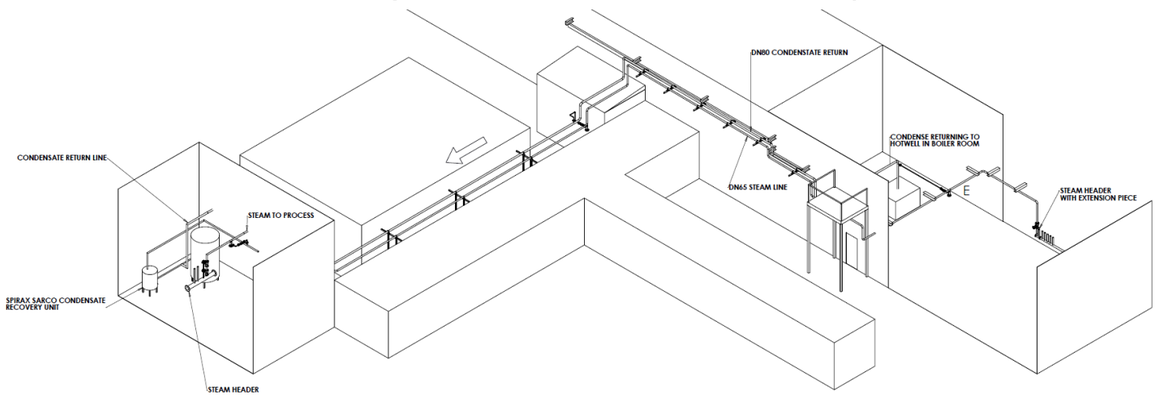
Significant growth and development in the site's manufacturing footprint over the last 50 years

Facilities have been added with their own independent plant steam raising boilers

Fluctuations in plant steam demand from installed meters within the different manufacturing areas showed low utilisation of the boilers resulting in

- Poor boiler efficiencies due inability to achieve the necessary turndown ratio to match the observed demand
- Boilers utilising energy in hot standby

Opportunity identified in collaboration with equipment manufacturers to link the plant steam systems and realise benefits of further plant steam boiler efficiency initiatives



Energy consumption reduced by 543,000 kWh per year

102 t per year reduction in CO_2 emissions

Drives increased benefit of future projects to further improve boiler efficiency as loading is now increased

- Installation of combustion optimizers to ensure efficiency of the boiler throughout the range of burner operation.
- Sequence controllers to manage boiler duty
- Economizers to utilize flue gas waste heat for feed water pre-heat.

These initiatives will deliver a further 110 t per year reduction in CO_2 emissions

Refrigerant Gas Replacement & Leak Detection

Fluorinated gases (F gases) and in particular hydrofluorocarbons (HFCs) are still widespread in refrigerant systems.

Their Global Warming Potential is significantly higher than that of CO_2

The UK is phasing down HFCs by 79% by 2030. At Ipsen Wrexham we have committed to a two-pronged approach to combat the potential impact of our refrigerants.

Replace

- Find alternative to existing refrigerants which give comparable performance
- 56% reduction in GWP in one instance
- 15% reduction is the site's total GWP associated with refrigerant gases

Detect

- Continuous monitoring of 30 locations by 70 detectors capable of detecting 10 PPM and covering the highest risk GWP refrigerants
- Over and above legal requirements for monitoring

Horizon 2030 Journey