

Our Commitment to Sustainability

At Vale, we exist to improve life and transform the future. Sustainability is a part of our core values, 'to respect our planet and communities'. Below are a few examples of the many ways we are living by our values.

Did you know? At Vale's Clydach Refinery...



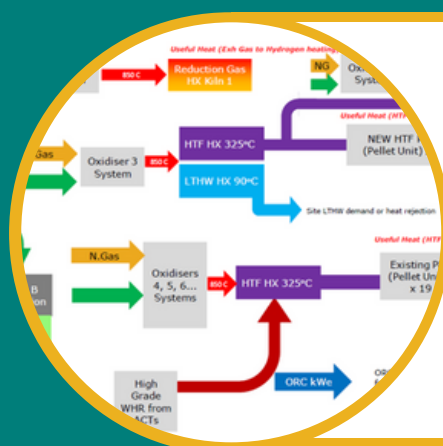
We invested **£4 million in 2022**, and another £1 million is slated for 2023 for a Closed-loop Cooling Water Circuit. The system recirculates treated wastewater from our Effluent Plant to all other areas of the Refinery. This, in turn, reduces consumption of more than 4 billion litres of water/year!



We have a 30-metre-long greenhouse! Here, Swansea University students **grow algae using CO2 from our nickel refining process**. This is a major win-win: it reduces GHG emissions whilst increasing the potential for renewable sources of food and energy using the harvested algae.



In 2022, we started receiving feed deliveries using **100% electric trucks**. Driving the 148 km round-trip from Cardiff to Clydach whilst carrying 20-tonnes of material, the electric truck produces zero emissions!



ASPIRE is an early-days, cutting-edge sustainability project that will **reduce CO2 emissions** on site in stages: By 33% in 2030, and net-zero by 2050. This will be made possible by using biogenic feed to produce all our process gases, heat and power.

And we won't stop there. Globally we are committed to...

Reducing greenhouse gas emission by **33%** by 2030

Reducing new water collections by **10%** by 2030

Using **100%** renewable energy globally by 2030

Doubling the number of women in our workforce by 2025