



GenSet Case Study: Steel



Long established Italian steel mill, AST Terni, recognises the importance of future proofing their business by adopting measures to convert their existing waste steam into usable electrical power.

Industry:

Chemical

Application:

Fossil Fuels (PRV)

Country: UK

Power: 2 x 132 kW

Model: 2 x HP145

Steam in/out:

17 Bar G / 2.5 Bar G

THE CLIENT

Steel mill Acciai Speciali Terni (AST), was founded in 1884.

The company is one of Italy's largest manufacturers of stainless steel strip, having its main facility at Terni in Umbria.

The site distributes steam at 15.5 bar g and this is reduced for use locally via pressure reduction valves (PRVs).

THE PROJECT

AST are a forward thinking, long established business constantly improving their production processes. The introduction of a Heliex GenSet was identified as a means of improving energy efficiency and reducing power costs.

THE SOLUTION

A Heliex Power HP145 System, operating at 4500rpm, driving a 3000rpm asynchronous generator via a toothed belt transmission.

The HP145 is designed to operate outdoors on the AST site. The unit was supplied as a packaged and factory tested generator set, and is CE approved. It is single skid mounted with dimensions of 2.75m x 1.7m x 2m (LxWxH), weighing 3500kg and suitable for lifting and positioning by fork lift truck.

No special foundations were required so can be placed on flat hard standing. From arrival at the site, the customer installation and connection took approximately two days.

Commissioning and start-up was provided by Heliex personnel; this took approximately one day, although we remained on site longer to carry out user training and testing.

