

CUSTOMER PROFILE

Liberty Onesteel, Australia

- 14 manufacturing site portfolio
- 0.58 initial baseline power factor
- · Continuous-process, high-load industrial plants

CHALLENGE

Liberty OneSteel operates high-load, continuous-process manufacturing, which is sensitive to even minor voltage events. Key issues included:

- Voltage sags and fluctuations disrupting steel processing
- **Risk of costly downtime** during high-heat, high-throughput phases of production
- Limited insight into real-time power quality across critical circuits
- **Need to ensure equipment protection** and process stability at industrial scale

SOLUTION & RESULTS

Edge Zero deployed voltage regulation and monitoring tailored to heavy industry needs leading to annual savings of \$312,424 AUD.

- Installed monitoring units across key electrical infrastructure to help stabilize incoming voltage
- Leveraged real-time monitoring to flag and prevent voltage anomalies
- Enhanced equipment protection, reducing the risk of process interruptions
- Improved overall power quality, supporting uninterrupted steel production

Challenges

- Voltage Fluctuations
- Risk of Downtime
- Lack of Real-Time Visibility
- Pressure to Improve Operational Efficiency
- Ensuring Equipment Protection and Process Stability

Benefits

- \$312,424(AUD) Seen in Annual Savings
- 0.58 to 0.99 Power Factor
- Payback Period of 2.4 Years

Visibility is the first step towards being able to control electricity usage.

Commercial electricity bills often have charges based on factors beyond energy usage. Being able to measure and control these factors is a significant advantage. This can lead to decreased spend on electricity and help mitigate downtime due to power quality issues.