



Liberty Steel



Major Energy Consumption and Opportunity



CLIENT SUMMARY

- Client Type: Industrial – Steel Manufacturing
- Term: 2021
- Location(s)
 - Peoria, IL
 - Chicago Heights, IL
- Services Provided:
 - ASHRAE Energy Audit
 - Energy Strategy

PROJECT DETAILS

- Review of existing buildings and infrastructure
- Review utility bills for each facility, develop baseline consumption by production lines
- Review major technology, infrastructure, and facilities programs
- Review proposed changes to federal, state & utility energy programs
- Perform CBA, TCO, ROI analysis on solutions
- Document findings and recommended strategy in comprehensive report for state auditors

Liberty Steel is a major manufacturer of steel and steel products, not just in the US, but globally. The facilities in this scope comprised approximately 1,500 acres of land, 2 million square feet of buildings, 900 employees, and 1 million tons of steel produced. Their main melt shop incorporates a 200T electric arc furnace that consumes 115 MVA at peak power. At their main site, Liberty consumes approx. 630 GWh of energy equivalent each year.

Nepkin was hired to perform an audit of their facilities to comply with state energy reporting requirements. Part of the process included a review of major upgrades identified by their technical partners to identify and quantify the potential energy savings. Nepkin also reviewed the opportunities for renewable energy sources, along with more novel implementations of CHP and energy recovery solutions.

In total, Nepkin identified solutions that had the potential to save Liberty up to 20% in energy costs while cutting the carbon footprint by up to 80%.

SERVICES AVAILABLE

- Infrastructure Assessments
- Technology Infrastructure Design
- Technology Consulting
- Technical Project Management
- Master Systems Integrator
- Energy Assessments
- Energy Management



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