



Partnership Profiles



O&M Services

Turnkey Installation

Energy Services

System Solutions

Site: Anshan Iron & Steel

Location: Anshan, China

Scope of Work: This facility knew it had very inefficient steam and condensate systems and felt it did not have the on-site expertise to determine the area of inefficiencies nor how to prioritize and manage the work. Armstrong addressed these needs by discovering the areas of inefficiency, justifying the work on an economic basis, and then performing the work on a turnkey contract.



Upgrade Projects: A total of three phases of the project have been implemented, which includes:

- Re-engineered and optimized the steam system flow by installing 2 flash recovery systems to recover and re-sue the flash steam.
- Installed a condensate recovery system to achieve maximum condensate recovery and use the residue heat in the recovered condensate for area heating.
- Re-engineered and optimized the steam trapping system to improve steam efficiency and eliminate steam loss, while meeting the requirements for the condensate recovery system.

Project Cost: The total value of the agreement was \$646,000

Starting Time: Project Phase I, II, III was signed in November 1999, October 2000, and October 2001 respectively.

Time of Service: Project Phase I, II, III was completed in December 1999, December 2000, and October 2001 respectively.

- Benefits:**
- **Total project savings: \$1,500,000**
 - Average project payback period: less than 1 year

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