

CASE STUDY

Turnkey Mechanical & Electrical Installation for RNG Upgrading Facilities

Client Location: Midwest USA

Scope: 6 RNG Upgrading Projects

Client Challenge

A leading energy developer required a dependable partner to execute turnkey mechanical and electrical installations for six Renewable Natural Gas (RNG) upgrading facilities across the Midwest. Timelines were tight, conditions were harsh, and precision was critical to ensure system integrity and operational readiness.



RCG USA's Solution

RCG USA delivered a complete, end-to-end installation solution. Our scope included:

- Full mechanical and electrical installation
- Fabrication and installation of 304/316 stainless steel piping and steel support systems
- Aluminum-cladded thermal insulation
- Equipment positioning and anchoring
- Supply of critical installation materials

Project Execution Highlights

→ Deployment of Skilled Trades

Our field team consisted of Project Managers, Electricians, Mechanical Technicians, Welders, Pipe Fitters, and Insulation Specialists, supplemented by crane and HVAC service partners.

→ Efficient Equipment Placement

We engineered a one-day rigging strategy to set all major equipment — including 12 modular gas upgrader units and 6 H₂S removal systems — drastically minimizing crane time and associated costs.

→ Precision Prefabrication

Stainless steel piping systems were designed with field-fit joints to ensure seamless installation with minimal onsite adjustments.

→ Integrated Electrical Work

RCG handled installation of main panels, auxiliary terminations, heat tracing, and more.

→ Insulation Excellence

We applied 2" aluminum-cladded insulation to all required systems, ensuring efficiency and durability.

→ Specialized Mechanical Modifications

Our team performed equipment alignments, carbon changeouts, analyzer upgrades, buffer tank mods, and installation of blower, mixer pump, and other skid-based systems.

Outcome

Despite challenging winter conditions, RCG USA completed all installations on schedule. Each site is now fully operational and delivering pipeline-grade RNG. The client praised RCG's professionalism, flexibility, and commitment to quality and safety.

Client Feedback



"RCG's performance exceeded expectations. Their ability to adapt, execute, and deliver high-quality work under pressure made them an invaluable partner in this project."