



Plant Optimization & Technical Enhancement Service

STARKTECH.COM



Unlock the Full Potential of Your Facility

At Stark Tech, we're proud to support the energy industry by helping clients achieve stronger, more reliable performance with our Plant Optimization & Technical Enhancement Service.

Designed specifically for RNG operators, this solution tackles design flaws, operational inefficiencies, and control issues in gas treatment systems-so you can run smarter, safer, and more efficiently.

Flexible Service. Powerful Results.

This service can be offered on its own or as part of a broader plant optimization study. Our goal is simple; to boost your facility's performance by improving operational efficiency, maximizing throughput, and enhancing the effectiveness of key processing systems.

Driving results in the following areas:

- ▶ Increased methane (CH₄) recovery rates
- ▶ Improved system reliability and uptime
- ▶ Enhanced energy efficiency and process control
- ▶ Optimized removal of CO₂, VOC's, H₂S, N₂, and moisture
- ▶ CHP / Gas engine optimization
- ▶ Effluent and Condensate treatment – PFAS, Ammonia, etc. to discharge requirements

A Full Spectrum of Systems, All in One Place.

Our optimization and assessment services cover a comprehensive range of systems, including:

- ▶ Landfill Inlet Blower Skids
- ▶ H₂S Removal
- ▶ Low-Pressure (LP) and High-Pressure (HP Dehydration Systems)
- ▶ Compressors (Feed, Vacuum, Product, Rinse, and Sales)
- ▶ VOC Removal Systems (Pressure Swing Adsorption – PSA, Temperature Swing Adsorption – TSA)
- ▶ Membrane Systems (CO₂ Removal)
- ▶ Nitrogen Removal Unit (NRU)
- ▶ Condensate Removal



Startup and Commissioning Support

Ensure a confident launch with our expert startup and commissioning support. Whether onsite or remote, our team helps you hit the ground running.

- ▶ Pre-commissioning system reviews and readiness checks
- ▶ Startup sequencing and operational testing
- ▶ Tuning of controls and instrumentation
- ▶ Troubleshooting and issue resolution during startup
- ▶ Ensuring a smooth transition from commissioning to steady-state operation
- ▶ On-the-job training for operators and maintenance staff



Our comprehensive scope ensures every system you need is covered from day one.

Scope May Include:

- ▶ Operator Training & Development
- ▶ SCADA Review – alarm analysis, control mapping, trend review
- ▶ Data Reporting Optimization – improve analytics and visibility
- ▶ Compressor Performance services (oil testing, system diagnostics)
- ▶ Spare Parts & Equipment Supply

Our Approach

Our evaluations are tailored to meet each site's operating goals, design standards, and performance expectations.

- ▶ Review performance of each skid or process unit
- ▶ Identify bottlenecks, inefficiencies , or design flaws
- ▶ Recommend practical, cost-effective enhancements
- ▶ Perform bench studies as needed
- ▶ Support equipment and control systems upgrades
- ▶ Add instrumentation or modify control logic to improve operation
- ▶ Revise control philosophies and optimize SCADA functionality
- ▶ Explore and evaluate alternative technologies to enhance system performance
- ▶ Leverage partnerships with specialty technology and service providers as needed





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