



HYDRUS
WORKS LLC

Optimizing Industrial Utilities for a Smarter, Leaner and Future-Ready Operation

Refining | Oil & Gas | LNG | Renewables
Mining | Chemical Processing | Data Centers

Optimizing Industrial Utilities for a Smarter, Leaner and Future-Ready Operation

Hydrus Works helps energy and industrial facilities get more from their utility systems, the foundation of reliable operations. These systems are critical, complex, and often underfunded and overlooked. We make them smarter, safer, and more efficient.

- **Field-Validated Modeling:** Blends real-world data with advanced simulation to optimize performance, improve accuracy and lower costs.
- **"Measure, Model, Maintain" Approach:** Using our proprietary Utility Modeling as a Service (UMaaS) platform, field data is collected and validated to build evergreen hydraulic models to deliver better insights, and turn your utilities into living digital assets.
- **Bolt-On Expertise:** We're ready for every phase of your project's lifecycle, from concept to commissioning.



Solutions Tailored to Your Biggest Utility and Fire Protection Challenges

Utility Modeling

- Cooling Water and Chiller Systems
- Instrument and Compressed Air
- Utility / Process Water
- Firewater
- Steam
- Boiler Feed Water
- Hydrogen / Nitrogen / Gasses
- Fuel Gas
- Storm Water and Lift Station Networks
- Process Streams
- Surge and Water Hammer
- Any Distribution Network

Fire Protection & Risk

- Basis of Design / FEED
- Turnkey Fire Protection
- Fire and Gas Detection and Alarm
- Water Based Suppression
- Hydraulic / Surge Modeling
- Radiation Modeling
- Explosion Modeling
- Quantitative Risk Analysis
- Gas and Fire Detection Mapping
- Gas Dispersion Modeling
- Code Consulting
- Audits and Flow Surveys
- Hazard Identification
- System Design and Review
- Client Liaison and Negotiation
- Performance Based Designs
- Facility Siting Analysis
- Fire Hazard Assessments (FHA)

Process Reliability

- Improving Cooling in Summer Months or Bad Acting Exchangers
- Improve Steam Distribution and Reduce Waste
- Improving Instrument Air System Resiliency to Avoid an Unnecessary Shutdown

Turn Utility Complexity into Predictable Performance



Managing utilities is core to a facility's infrastructure, and the impact extends throughout every process. With aging infrastructure, fragmented intel, and the challenge of tying new projects into existing networks, surprises can easily derail your goals and budget. Hydrus Works delivers project success, smoother startups, and lasting reliability through a proven, field-data driven approach.

Field-Validated Accuracy

Our field-ready engineers don't just design from a distance – they measure, test and validate onsite.

- Flow, Pressure and Temperature Surveys
- Air Flow/Pressure Logging
- Steam, Air and Gas Leak Surveys
- Steam Trap Surveys
- Insulation Surveys
- Firewater Performance
- Compressed Air System Assessments
- Water System Surveys and More

Continuous Improvement, Real Results

- Tighten Up Operations
- Expand Intelligently
- Reduce Water and Energy Consumption
- Optimize System Performance
- Improve Reliability and Future Readiness

Evergreen Models with UMaaS

Utility systems are hydraulically connected, and we understand how critical this can be to your entire operation. Our UMaaS platform was created to help keep your models updated and actionable, supporting smarter decisions for projects, operations and planning.



Fire Protection, Your Way: Expert Support from Concept to Commissioning

Licensed Engineers

Our fire protection engineers guide you through every phase – design, bidding, install, and startup.

System Design & Risk Analysis

We deliver firewater system design, hydraulic modeling, fire and gas detection, and risk assessments tailored to your site.

Field-Validated & Code-Compliant

Every design is validated with real-world data and built to meet NFPA and AHJ requirements.

Vendor-Neutral, Owner-Advocate

We never oversell. Our designs are driven by your needs, not equipment sales.

Why Hydrus Works?

- **UMaaS Platform:** Your digital backbone for ongoing reliability, compliance and knowledge retention. We build, maintain, and continually improve your utility models, so you're always ready for change and optimization.
- **Field-Validated, Engineer-Led:** Real data. Real results. Our engineers are in the field, not just behind a desk.
- **Protect and Scale Your Institutional Knowledge:** We help you capture and retain critical system knowledge, so expertise doesn't walk out the door.

Ready to Future Proof Your Utilities?

Contact us today and let's get started on bringing your utilities into a smarter, leaner and future-ready operation.

HydrusWorks.com

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