

Process Safety Consulting Portfolio

Comprehensive solutions designed to reduce risk, optimize cost, and ensure compliance

[siemens-energy.com/process-safety](https://www.siemens-energy.com/process-safety)

Siemens Energy Process Safety Consulting is your trusted partner and advisor for over 20 years, leading the industry in over 3,500 projects executed and delivering innovative engineering services and software solutions to Upstream and Midstream Oil and Gas, Refining and Petrochemical companies worldwide.

We recognize the challenges our customers are facing as a result of current market conditions. Challenging times call for experts with the right tools, people and processes. Whether it is corporate initiatives, aging infrastructures, acquisitions, or capital projects making it difficult to stay on top of safety processes and systems. We can contribute our extensive knowledge of codes and standards, and compliance documents from OSHA, RAGAGEP, API and ASME to Siemens Energy's corporate standards implemented globally by major oil companies.

Turn to Siemens Energy and let our experts help address your company's most vital challenges in process safety.

Relief & Disposal System Services

Pioneering methodology assisting customers with design, rating, documentation and management of pressure relief and vapor/liquid disposal systems barriers for Oil and Gas Production, Refining & Petrochemicals. Augmentation of owner/operator onsite staff with Siemens Process Safety experts also available

- Relief systems design & rating
- Disposal system hydraulic and capacity analysis
- Relief and disposal system concern mitigation
- Gas dispersion modeling and analysis
- Flare radiation analysis
- Flare quantitative risk assessment (QRA)



Hazard and Risk Assessment

Helping improve process safety performance through identification, assessment and management of risks as they relate to project design or plant operations

- Process Hazard Analysis
- Dynamic Process Simulation
- Safety Instrumented Function Conceptual Design
- Safety Integrity Level assessments

Asset Integrity Management

Innovative solutions for monitoring safety critical equipment, damage mechanisms, scheduling time or Risk-Based Inspection (RBI) activities and calculating the remaining life in agreement with API codes

- IDMS Implementation
- UltraPIPE / PSAIM database audit
- Corrosion management consulting
- Fitness for service assessment
- Risk based inspection services
- Procedure and guideline development or review

Published by

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Process Safety Management

Providing services and associated packaged solution helping ensure changes to a process or organization lifecycle do not introduce new hazards or increase the risk of existing hazards

- Procedures and guidelines development
- Process safety information “evergreening”
- Optimization of Management of Change procedures

Functional Safety Management

Complementary services based on functional safety lifecycle for assessing risk and designing protection barriers to reduce the risk of hydrocarbon leaks and spills

- Staff augmentation
- Cause and effects assessment
- Heat and material balance generation
- Facility debottlenecking

Training Services

Onsite and customized training services for software products, engineering services and Best Practices trainings in partnership with Mary Kay O’Connor Process Safety Center

Software & Technology

Software technology license and subscription sales, maintenance, support and delivery services - leveraging data to benchmark indicators for safety systems, equipment integrity design and operational performance

- **Process Safety Pressure Protection Manager™ (PSPPM™)** an enterprise-level software allowing collaboration on how to ensure process equipment has adequate overpressure protection
- **PS Asset Integrity Manager® (PSAIM™)** an industry leading software for safety critical equipment corrosion monitoring, inspection planning and scheduling, and remaining life calculation
- **PS Change Manager® (PSCM™)** a workflow solution enabling improved visibility, consistency, accountability and control for management of changes in your plant
- **Oil and Gas Manager™ (OGM™)** a process simulation driven software for feasibility evaluation, concept selection and design, and cost estimation of upstream and mid-stream oil and gas development and brownfield projects