



LIWACOM is a major global supplier of pipeline simulation and optimization software. SIMONE is the industry-leading and most advanced standard software application for simulating and optimizing natural gas flows in pipeline transportation and distribution systems. It covers system design, real-time operation, leak detection, and energy billing.

Beside of Support / Maintenance / Training for the Software SIMONE, LIWACOM offers the following engineering, consulting and study services:

LIWACOM Engineering

FEED, Basic- and Detail Design in Process, E / MSR-Techniques

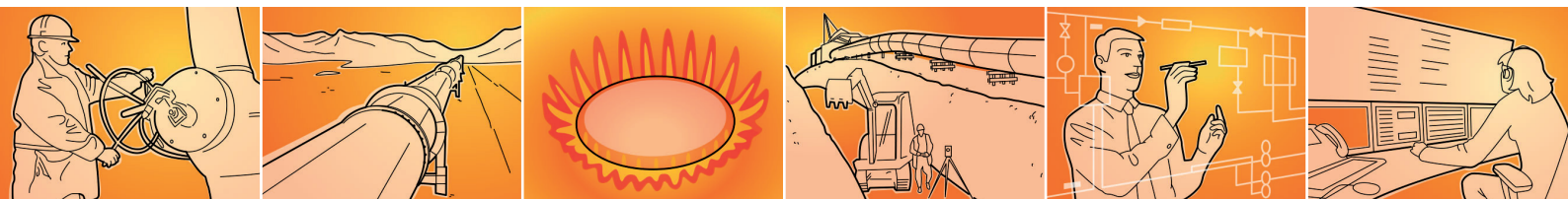
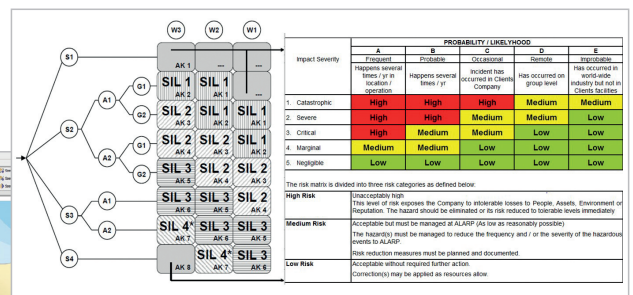
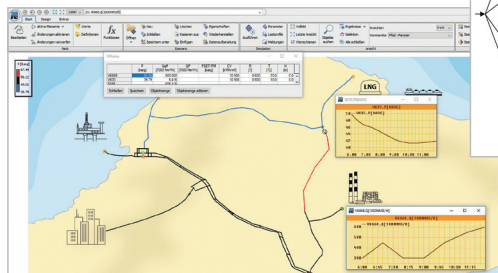
General support for engineering services for gas projects.

Preparation, Examination and Documentation of HAZOP / SIL Studies

Preparation, examination and documentation of HAZID / HAZOP and SIL Studies.

Hydraulic Studies for Gas Transport Systems

Preparation of hydraulic studies for the gas industry and creation of tailor-made SIMONE models as support for SIMONE users.





Fact Sheet

FEED, Basic- and Detail Design in Process, E / MSR-Techniques

Support for preparation of technical enquiries and specifications for gas transport and storage systems, especially

- Pipeline systems,
- Metering stations,
- Compressor stations,
- SCADA systems.

Preparation and Examination of HAZOP / SIL Studies

- Preparation, examination, and documentation of HAZID / HAZOP and SIL studies for gas transport / storage systems.
- Follow up of the created action points.
- Close out report.

Hydraulic Studies for Gas Transport Systems

- Capacity investigations.
- Support for specification of technical enquiries for compressors (e.g. required power, head and volume flow for several operation points).
- Transient pressurization / depressurization for commissioning / decommissioning scenarios.
- Pre-design of depressurization systems.
- Simulation of modifications in existing systems (capacity calculation, e.g. transient behavior of the network for several load profiles).
- Calculation for scenarios with changes in gas quality / calorific values (e.g. new biogas or H₂ injection).
- Training for SIMONE users with individual tailor-made key aspects.

References



Contact and Product Support



LIWACOM Informationstechnik GmbH

Berliner Platz 6-8
45127 Essen, Germany

Phone +49 201 170 38-0

Email postmaster@liwacom.de

www.liwacom.de