

TOZZI

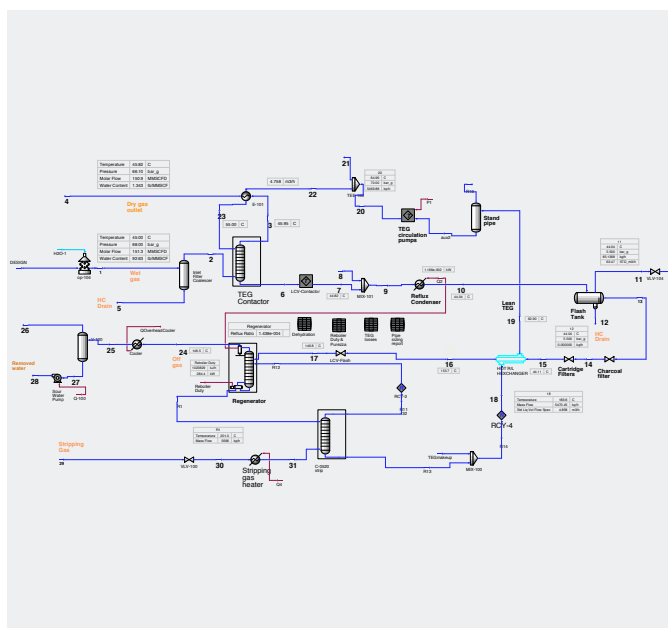
Driven by our Energy



Engineering

We go beyond competitiveness. We give you collaboration.

Our skills and determination are at your service. The experience we gained in over 60 years of successful operation, performance and delivery guarantees our Customers that we will find the most adequate solutions to meet their needs. This is our way to be a partner and not only a supplier.



Design - Keep it simple

There is only one way to deliver a job on time and on budget: to do the engineering once and well, avoiding clashes and reworking. We understand the importance of providing our services to Clients in order to assist them from the beginning until the start-up of the plant. We carefully analyze all aspects so that for every project we manage, design will be:

- Cost efficient
- Compact
- Easy to operate
- Motion insensitive
- Energy efficient
- Environmentally sound

Our engineers have worked with all the major companies in all parts of the world, and therefore they are familiar with the various international standards and specifications. The key driver is the global conceptual view of the project we are required to be part of, so that we maintain responsibility for interface engineering while mapping out all the different units involved in the design. In addition to this, new technologies can be developed in-house or licensed through external companies.

PROJECT FEASIBILITY

Project feasibility is a very important step to identify the best economical opportunities and select optimum technical solutions which will translate into maximum profit results and minimization of risks.

Tozzi has strong experience in identifying the best conceptual approaches and development of feasibility analysis of selected plants and equipment configurations, performed by means of the most advanced and reliable pinch analysis and cost estimation tools.

ADVANCED ENGINEERING

Following the feasibility phase, Tozzi can provide process or multidisciplinary engineering for:

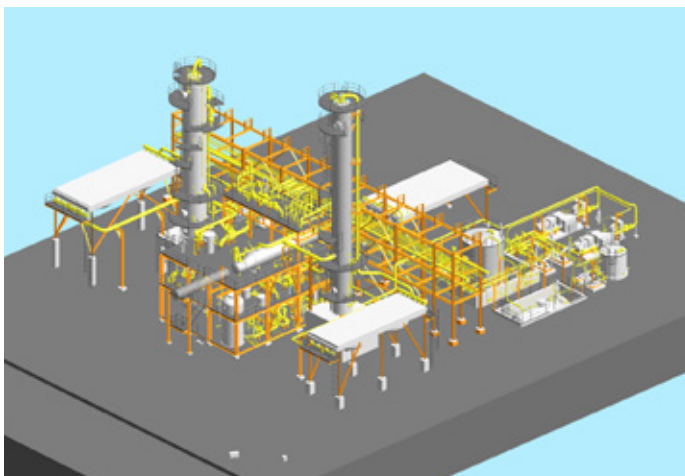
- Basic Design
- FEED
- Detailed Engineering
- Engineering endorsement/review

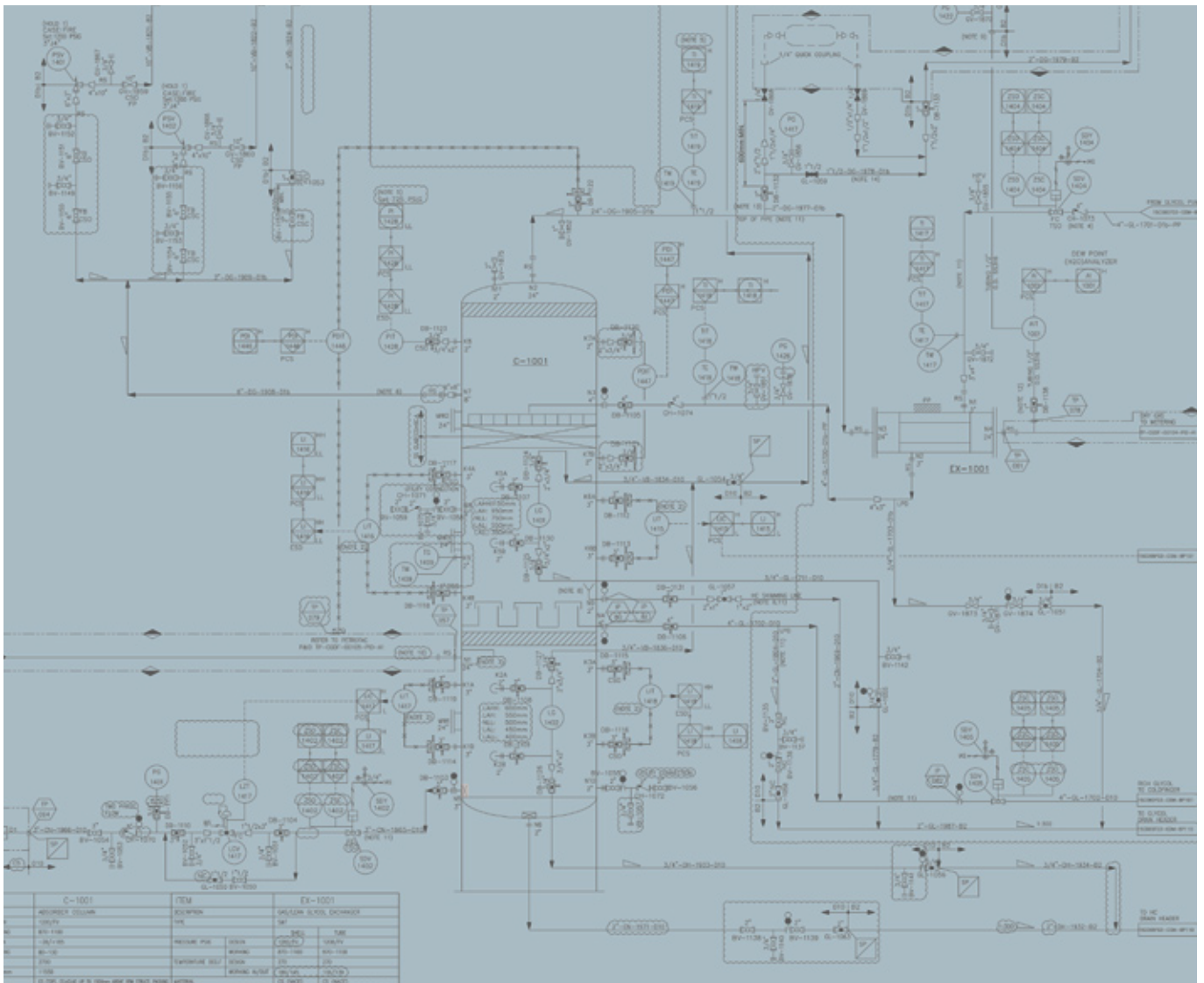
Advanced modeling and calculation tools are used at this stage to guarantee the most reliable and accurate design products and provide all engineering deliverables needed for fast and proper procurement, manufacturing and installation of all plant/equipment materials.

TOZZI PLANT EXPERIENCE

Our engineering experience varies from Upstream to Downstream facilities. Typical process units which can be designed by Tozzi are the following:

- Production separator: Slug catchers, 2/3-phase separators/coalescers, desanding, filtration, traps, manifolds
- Oil desalting and dehydration: Emulsion heater treaters, desalters/dryers, electrostatic separators
- Crude/HC Condensate stabilizers
- Production water treatment: degassers/dearators, oil coalescers/skimers, production/waste water treatment, reinjection treatment
- Gas treatment and conditioning: Amine sweetening (bulk or selective), Molecular sieve sweetening, Membrane separation, Glycol dehydration, Molecular sieve dehydration, HC Dewpoint control/LTS, Heavy hydrocarbon adsorption and recovery/liquefaction
- MEG/DEG Regeneration/recovery
- Air fractionation: PSA, membrane and cryogenic systems
- Treatment/purification of feed and technical gasses
- Sulphur recovery
- Vacuum process and Hydrofinishing





Engineering

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Paid-up Capital €3.054.385,00

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