

ABEL's core business is designing and building industrial plants. Its sectors of greatest expertise are:

- Chemical
- Pharmaceutical
- Oil & Gas
- Energy
- Industrial painting
- Machine tools
- Paper mills
- Water treatment

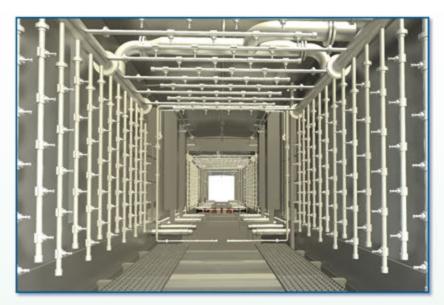
The engineering department chiefly focuses on developing each phase involved in industrial plants, such as piping, structural steelwork, electro-structural parts and mechanical engineering. The detailed engineering is developed ensuring the proper execution and construction of the project, starting from the basic engineering, to define the layout and the main features of the project. Our experience allows us to alternate "green field" solutions with work to revamp existing plants.

The engineering department handles an annual workload of:

70,000 internal hours

30,000 hours for associated tasks

❖ INGEGNERIA / AUTOMOTIVE ❖



COMPLETE CAR CHASSIS PRE-TREATMENT AND PAINTING PLANT

PDMS piping, supports and equipment modelling. Providing detailed piping engineering, isometric drawings, piping layout and lists of materials.

Client: Falcare | Workload: 3,500

COMPLETE CAR CHASSIS PRE-TREATMENT AND PAINTING PLANT

3D piping routing, support and equipment modelling using PDMS. Piping detailed engineering, isometric drawings, piping layouts, material lists.

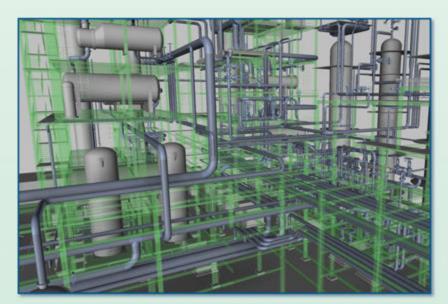
Engineering and studies for ovens, including internal and external ducts with supports.

Engineering and calculation reports, assemblies and construction nodes, TEKLA modelling of all structures.

Client: Geico | Workload: 10,000



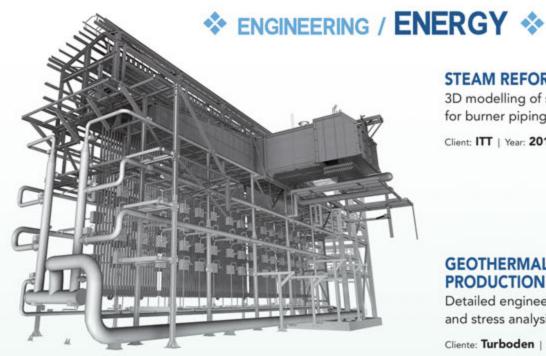
❖ INGEGNERIA / OIL & GAS ❖



PRODUCTION PLANT

Engineering service (feed) for a complete plant with Smart Plant.

Client: Eni Progetti | Year: 2019 | Workload: 4,000



STEAM REFORMER PLANT

3D modelling of steam reformer plant for burner piping lines.

Client: ITT | Year: 2019 | Workload: 1,000

GEOTHERMAL ELECTRICITY PRODUCTION PLANT

Detailed engineering of piping construction and stress analysis of 80% of the lines.

Cliente: Turboden | Year: 2018 | Workload: 6,000

BOILER

Design of a combined cycle boiler. Detailed engineering of structures and piping using 3D model.

Cliente: Macchi | Year: 2015 | Workload: 3,500

BIOGAS PLANT

Design of 14 biogas production plants harnessing an anaerobic digestion process which uses materials from an agro-industrial complex. Detailed Engineering for structures and piping.

Cliente: Sebigas | Workload: 6,000



ENGINEERING / PAPER MILL



WATER TREATMENT PLANT FOR A PAPER MILL

Complete supply of "lamella clean" sedimentation system.

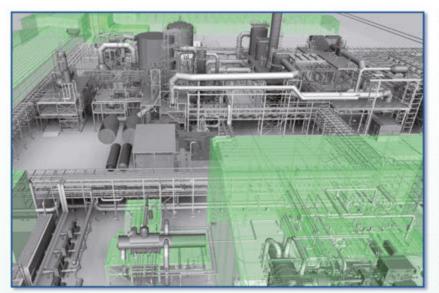
Client: Cartiera Ciacci Year: 2019 | Workload: 1,000

PAPER MILL REVAMPING

Detailed engineering of the cogeneration plant conversion.

Client: SM SMUTH - Loc. Porcari (LU) Year: 2016 | Workload: 2,000

* ENGINEERING / PHARMACEUTICAL *



SULPHURIC ACIDIC PLANT 1500 TONNES/YEAR

Multidisciplinary detailed engineering.

Client: Desmet Ballestra Year: 2019 | Workload: 18,000

SULPHURIC ACID PRODUCTION PLANT

3D modelling of both piping and structures. Production of detailed documentation for the construction, including carpentry, isometric piping, piping layouts, supports, elaboration in detail for jacketed lines.

Client: Desmet Ballestra Year: 2010 | Workload: 10,000

CHLORALKALI PRODUCTION PLANT

Ingegneria polidisciplinare di dettaglio.

Client: Thyssenkrupp

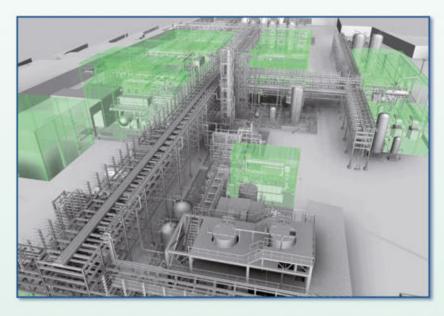
Year: 2019 | Workload: 10,000

REVAMPING OF AN EXISTING PHARMACEUTICAL PLANT

Inspection on site, demolition and reconstruction of floors and stairwells, renovation of mezzanine levels, new pipe rack and "as built" drawings. Calculations and designs complete with all structures and civil works.

Detailed 2D engineering for the piping.

Client: Amec Foster Wheeler Year: 2014 | Workload: 6,000



ABEL uses all the main planning and design software











PDMS

E3D

ESA PRO 3D

TEKLA STRUCTURES

MIDAS GEN 2013











IDEA STATICA

E-PLAN

SIEMENS NX

SOLID WORKS

INVENTOR









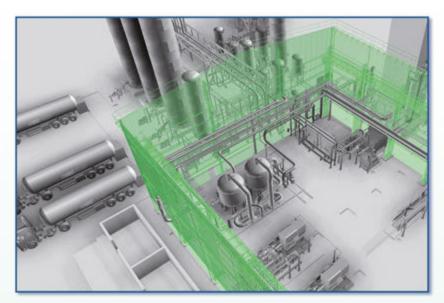
AUTOCAD

MICROSTATION

BRICSCAD

ESAPRO P&ID P&ID & INSTRUMENTATION

* ENGINEERING / CRYOGENIC GAS *



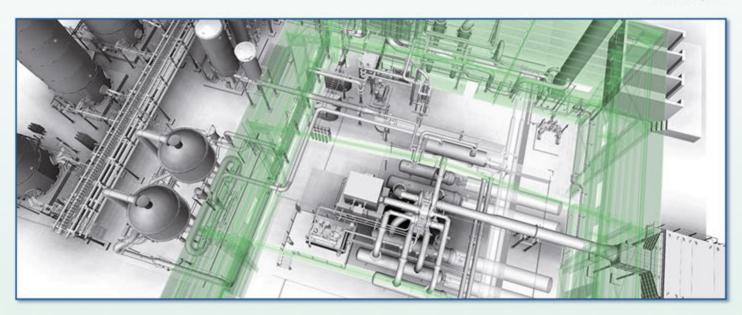
PRODUCTION AND STORAGE PLANT FOR CRYOGENIC GAS: OXYGEN, NITROGEN AND ARGON

Production of detailed engineering for the construction of piping, structures and supports.

Client: Siad

Year: 2019 | Workload: 3,500

Client: Siad Year: 2019 Workload: 4,000



* ENGINEERING / METALLURGIC *



CCM CASTING PLANT

Modelling of piping for detailed engineering, supports, hook-up and piping layout.

Client: Danieli

Year: 2019 | Workload: 1,500



ALUMINUM COIL EXTERIOR TREATMENT PLANT

3D modelling of piping, structures, supports, civil works, equipment and air duct drawings.

Client: Tenova

Year: 2019 | Workload: 3,500





Engineering

The engineering department chiefly focuses on developing each phase involved in industrial plants, such as piping, structural steelwork, electro-structural parts and mechanical engineering.



Construction

The Construction Department designs industrial plants according to technical specifications defined by the client and developed by the engineering department.



O&N

ABEL avails of a management and control department that oversees the quality of the projects and their maintenance. Its aim is to ensure optimal efficiency of the plants it designs and installs.

PLANTS



Water treatment

Water used for technological and/or industrial purposes must undergo special treatments to achieve the necessary results.

Modern industrial production lines require process water with precise characteristics that remain constant through time, in the same way that water used in food production needs to respect strict health and hygiene regulations.



Renewable energy

ABEL develops renewable energy solutions, particularly designing and building plants to produce biogas from agricultural biomass and waste-to-energy optimization plants.



www.abelgroup.eu

Varedo premises

Via Celotti, 8 - 20814 Varedo (MB) Tel. 02 45077213

Verbania premises

Via Montorfano, 3 - 28924 Verbania Tel. 0323 675150

Headquarters

Piazza Napoli, 19 - 20146 Milano | Italy

ADMINISTRATION | info@abel96.com

COMMERCIAL OFFICE | bdeveloper@abel96.com

TECHNICAL OFFICE | tecnico@abel96.com