

BUSINESS

To provide technological solutions that offer innovation, productivity and competitiveness, seeking recognition and loyalty.

MISSION

To develop, manufacture and supply equipments and solutions for industrial automation, creating superior value for stakeholders.

VISION

To be a great force in the domestic technology market, acting globally and delivering solutions with excellence.

VALUES









COMPETENCE



VALUE CREATION



INNOVATION



HAPPY PEOPLE

EXCELLENCE IN MANAGEMENT

- Alignment with well-known international management models and practices;
- ISO 9001:2015 (since 1993);
- Use of management excellence methods at strategic, tactical and operational levels.





MORE 40 YEARS

OUR PURPOSE IS TO CREATE SOLUTIONS WITH HIGH ADDED VALUE ENSURING PRODUCTIVITY, SECURITY AND RELIABILITY TO MOST PROCESSES IN THE INDUSTRY

HEADQUARTERS

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SÃO PAULO BRANCH

Alameda dos Maracatins, 780 Conj. 1501 | São Paulo/SP CEP 04089-001 | +55 (11) 2039-1950 vendassp@altus.com.br REPRESENTATIVES IN BRAZIL

We count on a broad network of commercial partners all around the country in order to gather all the industrial demands.

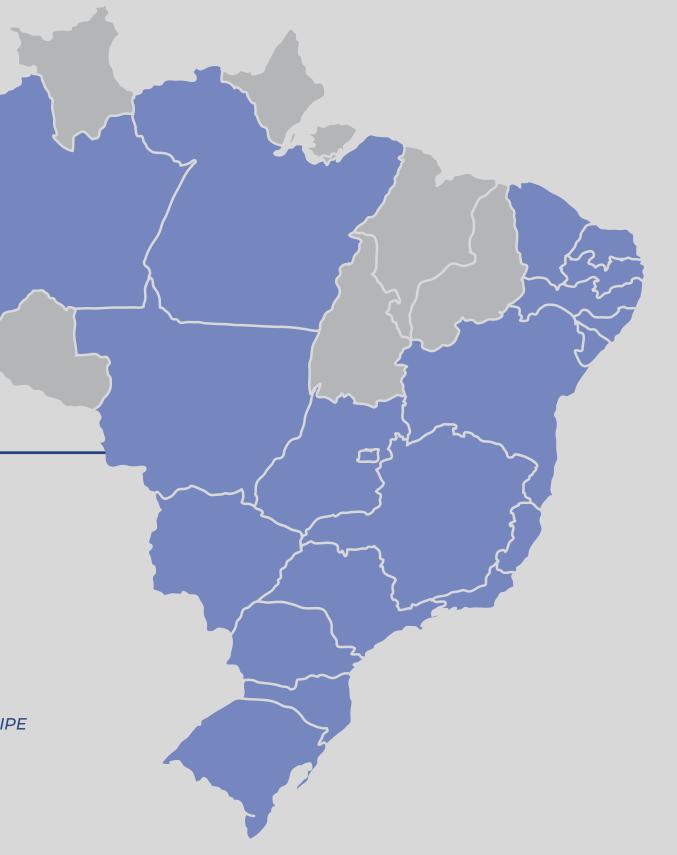
MORE THAN 20 SALES REPRESENTATIVES

COVERING THE WHOLE COUNTRY

ALAGOAS • AMAZONAS • BAHIA • CEARÁ • DISTRITO FEDERAL • ESPÍRITO SANTO • GOIÁS

MATO GROSSO • MATO GROSSO DO SUL • MINAS GERAIS • PARÁ • PARAÍBA • PARANÁ • PERNAMBUCO

RIO DE JANEIRO • RIO GRANDE DO NORTE • RIO GRANDE DO SUL • SANTA CATARINA • SÃO PAULO • SERGIPE



CERTIFIED INTEGRATORS

IN BRAZIL

The Integrators Certification Program aims to promote and standardize knowledge about the products and solutions offered by Altus. Focusing on the qualification of business partners and customers technical teams, the initiative seeks to reduce risks on the development of automation systems.



KNOW OUR
INTEGRATORS



INTERNATIONAL PRESENCE

With important partnerships established in different countries of Europe, Asia and America, Altus seeks to expand its international presence.

NORTH AMERICA CANADA MEXICO USA CENTRAL AMERICA GUATEMALA PANAMA SOUTH AMERICA ARGENTINA OCEANIA CHILE AUSTRALIA COLOMBIA AFRICA PERU EGYPT URUGUAY MOROCCO VENEZUELA SOUTH AFRICA

EUROPE

ÅLAND DENMARK **ENGLAND** FRANCE **GERMANY** GREECE **HUNGARY ITALY** LATVIA **NETHERLANDS NORWAY PORTUGAL ROMANIA** SPAIN **SWEDEN SWITZERLAND TURKEY**

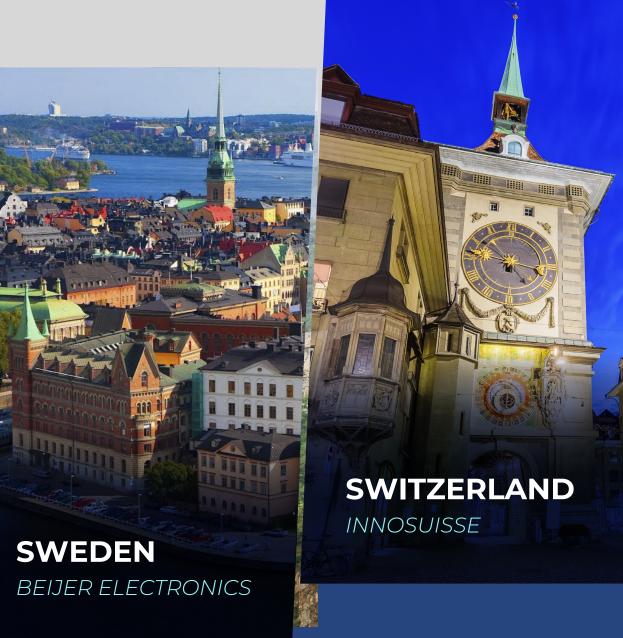
ASIA

CHINA
INDIA
KAZAKHSTAN
KUWAIT
SINGAPORE
SOUTH KOREA
TAIWAN
THAILAND
UNITED ARAB EMIRATES

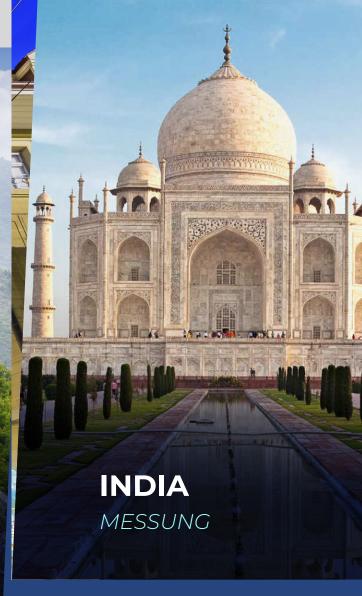
STRATEGIC PARTNERSHIPS

We have a long and intrinsic relationship with companies from different countries, mutually serving customers, establishing partnerships with suppliers and even R&D projects.









PARTNERSHIPS WITH ICTS AND UNIVERSITIES

Since Altus was created during a graduation course at UFRGS university, in 1982, the company has a strong connection with the academic world. Today, we have projects with different universities and technological institutes from north to south of the country.



UFRGS

Universidade Federal do Rio Grande do Sul



UNISINOS

Universidade do Vale do Rio dos Sinos



FURG

Universidade Federal do Rio Grande



UFRN

Universidade Federal do Rio Grande do Norte



FEENG

Fundação Empresa da Escola de Engenharia



FITEC

Fundações de Ciência e Tecnologia



FAURG

Fundação de Apoio a FURG



FAURGS

Fundação de Apoio a UFRGS







SOLUTIONS FOR THE DEMANDS OF ALL MARKETS

OIL & GAS • INDUSTRY 4.0 • MACHINE MANUFACTURING • AGROINDUSTRY
ELECTRICAL POWER • TRANSPORTATION • SANITATION • FOOD
BUILDING • LOADING BASE • METALS AND MINING • CHEMICAL
SUGAR AND ETHANOL • PULP & PAPER • TEXTILES • MARINE

PRODUCTS PORTFOLIO



PRODUCTS FIT TO YOUR

PROFIBUS/PROFIsafe **Ethernet MODBUS RTU**

BUSINESS Supervision Network (Simple / Redundant) **SUBTITLE:** Historical Servers SCADA Servers Cyber Security Servers IOT GATEWAY **Acquisition Network** (Simple / Redundant) Electric Link For distributed For machines For machines For high availability For power For large machines and small and midsize automation automation automation and medium-sized processes processes systems systems systems processes

Web Clients:

- Maintenance

- Monitoring and operation

- Reports

- Monitoring

- Integration with ERP Database

STATIONS

Corporate Network



NEXTO SERIES

PROGRAMMABLE CONTROLLERS

A COMPLETE SOLUTION FOR YOUR APPLICATION

- From small to large systems, redundant or distributed;
- High reliability for safety instrumented systems;
- Precise diagnostics and compact design;
- Support for MQTT and OPC UA to meet specific demands of Industry 4.0.





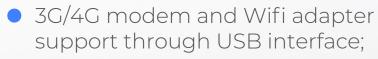




- Compact Programmable Controller with user webpage, embedded I/Os, ideal for machines and small applications;
- High density of I/Os (up to 43 points in only one product) and Real Time Clock (RTC);
- Ethernet, RS 485, CAN and USB interfaces.
 Support for MODBUS TCP and RTU, EtherNet/IP, EtherCAT, CANopen e J-1939, IEC 60870-5-104, OPC DA, OPC UA, MQTT (TLS 1.2) and PROFINET.



altus



- Support for PLCopen Motion Control Part 1 function blocks in the XP350 model;
- Datalogger function block for historical data record;
- WebServer support for development of supervision screens in the XP340 model;
- Options for input and output expansion modules via CAN interface.





GW700 LORA GATEWAY

- LoraWAN, MQTT communication and UDP
- Integrated diagnostic monitoring network
- Built-in Real Time Clock
- 12 and 24 Vdc power options
- Security with encryption and security key
- Configuration and monitoring via web server

NL717 NEXTO LOGGER

- Long-range LoRa communication
- 8 DI (4 fast) and 8 current AI
- SDI-12 Communication Interface
- 12 and 24 Vdc power options
- High-performance processor
- Technological platform CODESYS







HADRON XTORM SERIES

- Generation, Transmission and Distribution of Power;
- Protocols for communication with Control Centers and IEDs;
- DNP3, IEC 61850 (MMS and GOOSE), IEC 60870-5-104, PTP IEEE-1588, MODBUS TCP, MODBUS RTU;
- CPU and Power Supply redundancy;
- Logical Nodes Integration (IEC 61850)
 with IEC 61131-3 languages.









VERSATILITY IN SYSTEMS SUPERVISION

- Distributed and Remote Engineering;
- System Diagnostics;
- Simulation;
- User Management and Access Rights;
- Control and Debugging Panels;
- Support for C# and VB.NET Scripts;
- Integrated Communication Drivers;
- Report Editor;
- XAML Graphical Support and 3D Models;
- Symbol Library;
- Integration with Python and writing in SQL DB.



PONTO SERIES

- Redundant and optical PROFIBUS field network;
- Diversity of diagnostics;
- Hot swapping;

- Analog universal modules;
- HART modules;
- Asset management via HART on Profibus.



FBS SERIES

Small Programmable Controller.

DUO SERIES

- Programmable Controllers with embedded HMI;
- 42 digital and analog I/Os;
- Free MasterTool IEC Software.







INVERTERS

FREQUENCY INVERTERS

ECONOMY AND POWER

- Functional and versatile, designed for industrial, commercial and building automation applications;
- Scalable and vectorial control of all types;
- Wide amplitude of power ranges.



STEPPER MOTOR

- More smoothness for engine operation;
- Extremely low noise;
- Resolution of up to 15 microstep tracks;
- Automatic configuration of parameters;
- High Speed Touch Compensation.



WEIGHT TRANSMITTER

- Zero automatic tracking;
- Calibration via serial interface;
- Multilevel digital filter;
- Serial communication interface (RS-232 or RS-485);
- Immune to noise.



SERVO DRIVER

- Output power ranges from 100W;
- Speed, torque and position control;
- Rapid acceleration and deceleration ramp 3000 RPM;
- Absolute and multiturn encoder options;
- Communication protocols in MODBUS/RTU, CANopen and EtherCAT networks.



PHASE SERIES

MULTIMETERS

- Ethernet 10/100 BASE-T and Serial RS-485 communication interfaces;
- High precision;
- Expansion modules;
- Support for MODBUS-RTU, MODBUS-TCP, MQTT and SNTP protocols.



ENERGY SERIES

POWER SUPPLIES

- 24 Vdc modules from 2A to 20A;
- Protection against short-circuits.



CONNECT SERIES

SWITCHES AND INDUSTRIAL CONVERTERS

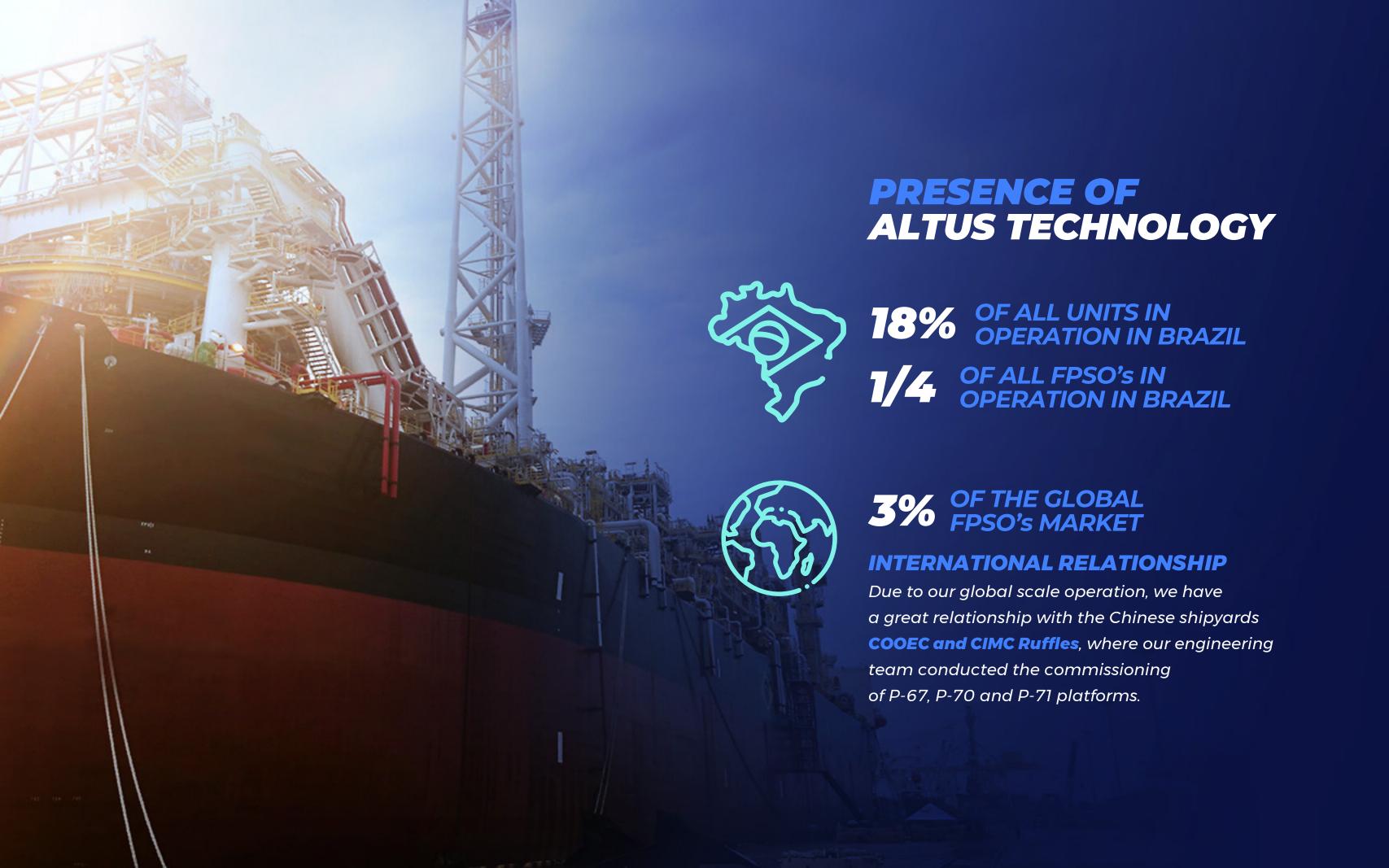
- Rugged design (IP30);
- 5 to 16-port models;
- Optical fiber network support;
- Network management tools;
- IoT Gateway with VPN for remote and secure communication.









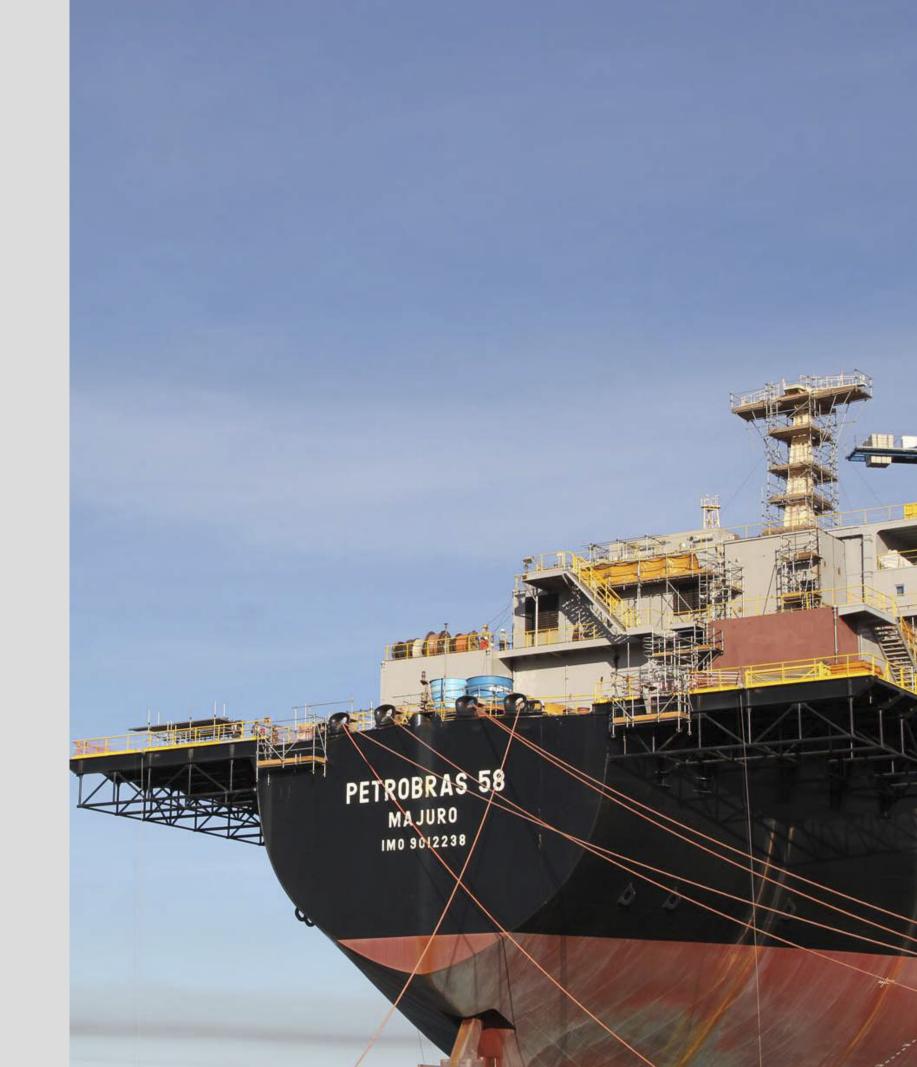


OIL & GAS | SUCCESS STORIES

P-58 AND P-62 FPSO's

Automation of Brazil most productive platforms

- P-58: Campo das Baleia, Campos Basin/ES;
- P-62: Campo do Roncador, Campos Basin/RJ;
- Automation of 9 Thousand control points per platform;
- Subsystems:
 - Control and monitoring of production and utilities;
 - Process shutdown;
 - Fire and gas;
 - Hull.

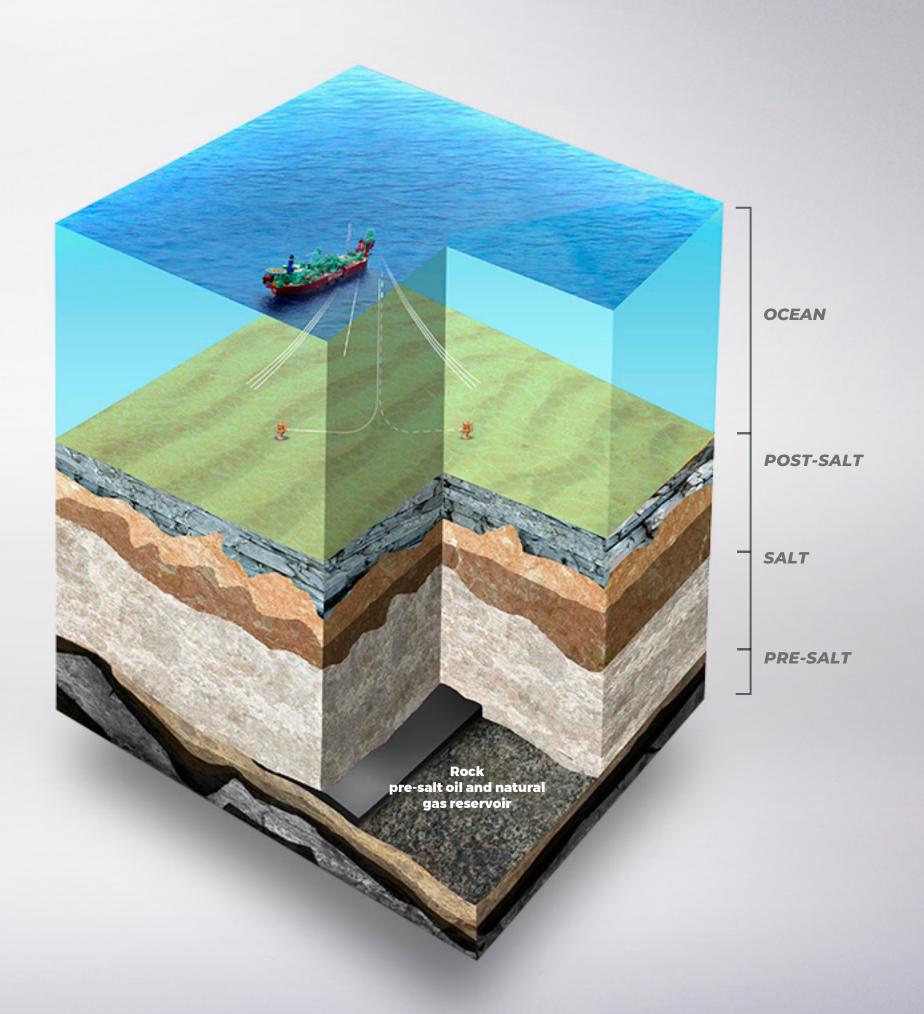


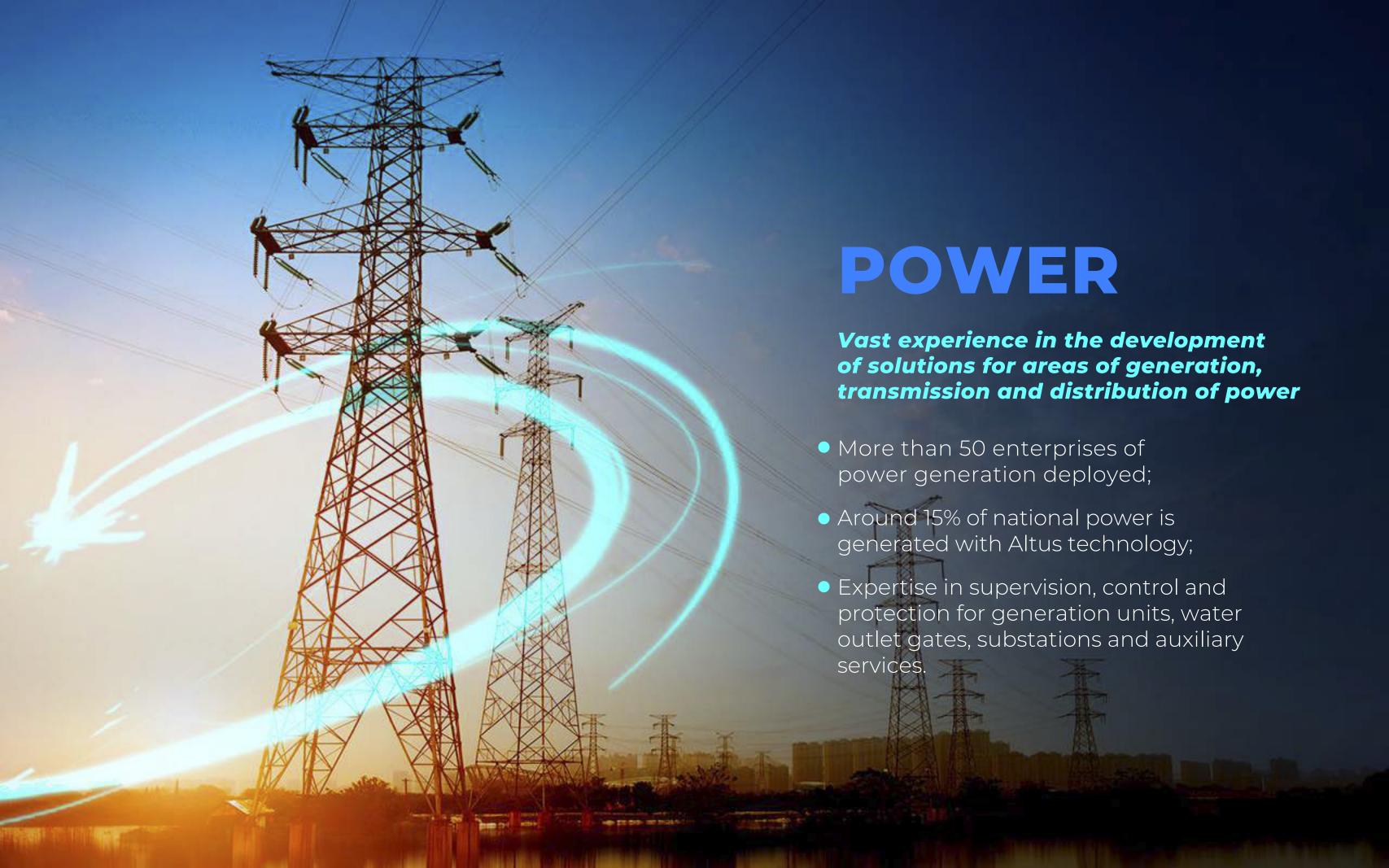
OIL & GAS | SUCCESS STORIES

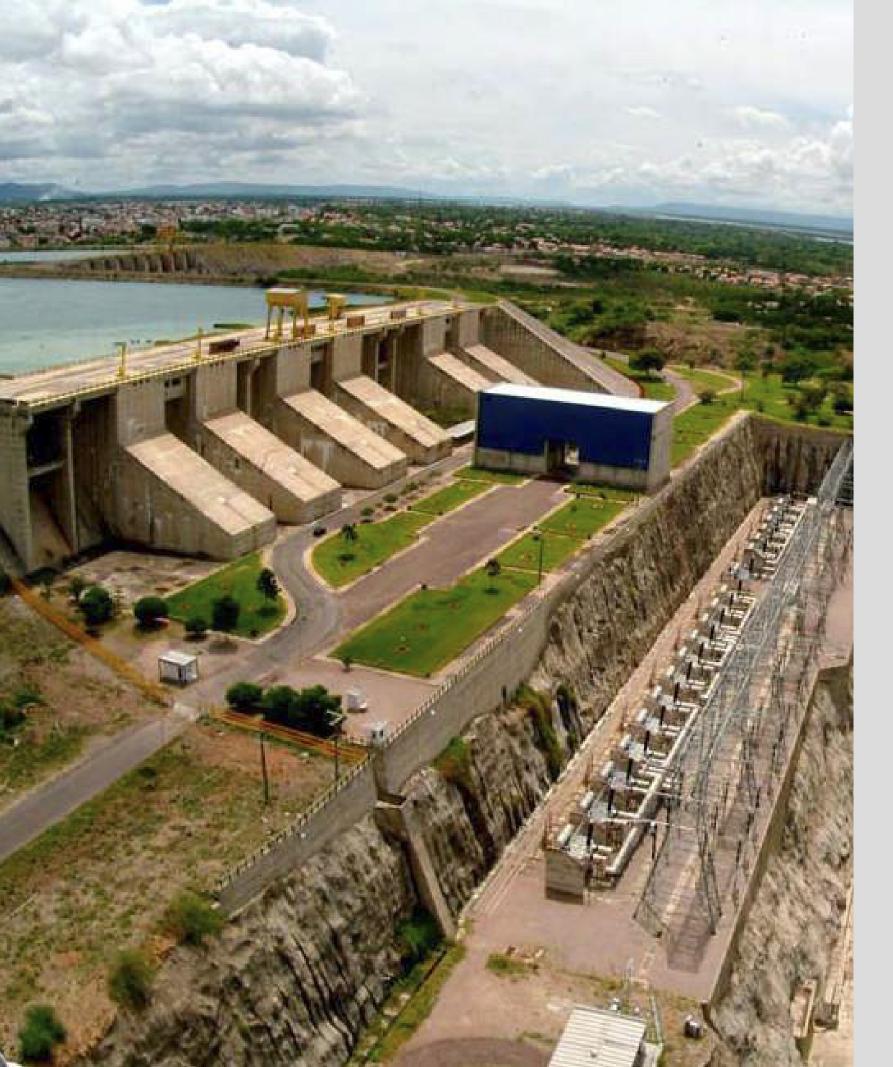
PRE-SALT FPSO

50% of Pre-Salt E&P activities are controlled with Altus technology

- Automation of the first 8 platforms for Pre-Salt operations;
- Daily production capacity of 180,000 oil barrels per platform;
- More than 6 km deep extraction operations.







POWER | SUCCESS STORIES

Paulo Afonso Complex

Responsible for 83.4% of the power generated by CHESF

- Supervision, control and protection of the generation units, water outlet gates, substations and auxiliary services of Paulo Afonso I, II and III power plants;
- 150,000 I/O points, with remote supervision and control.



POWER | SUCCESS STORIES

Ventos de Palmares Wind Farm

Automation of control, protection and data acquisition systems of the unit

- 50 MW of Power;
- Control and protection of Lagoa do Quintão Substation;
- Solution responsible for the integration of the power generated by the wind farm to the distribution system.





AGROINDUSTRY | SUCCESS STORIES

Bianchini

Modernization of Rio Grande City production complex

- Modernization of Extraction, Milling, Tripper's Driving, Warehouses #2 and #3, Laminators #1 and #2, Sieve. Preparation, Flow Scale, Dryer and Pier Towers procedures;
- 8,000 I/O points and 1,000 hardware items with remote supervision and control;
- The implementation of the redundant system has improved the production in about 30%.

FOOD AND BEVERAGES SUCCESS STORIES

Seara

Automation of more than 90% of Gaspar's unit

- Control and supervision of the unit's following processes: reindeer, treatment, bottling and loading of oils and margarine;
- Application with more than 4,000 I/O points and nine supervision points.





MINING | SUCCESS STORIES

Vale Corumbá

Iron ore extraction plant automation

- Supply of electric project and redundant PLC control system, network HMI, Profibus-DP remotes and distributed I/Os for Corumbá's unit iron ore extraction process operation;
- Application with ring field networks, optical communication link and more than 700 I/O points.

WATER & WASTEWATER | SUCCESS STORIES

Sabesp

More than 100 units automated with Altus technology

- Altus has been a technological partner to Sabesp for more than 20 years;
- Our technological solutions are used in different applications and processes of the company, such as the treatment of water and effluents, pumping stations, reservoirs, macromeasurement systems, among others;
- The products used in many solutions developed by the company feature telemetry and teleoperation for supervision and operation of all processes.





TEXTILE | SUCCESS STORIES

Vicunha

Automation of machines and processes for textile industry

- Largest textile industry in Latin America, with indigo and jeans manufacturing as main process;
- More than 200 controllers and 25,000 I/O points deployed on units I, II and III, controlling machines and processes, such as boilers, scrapers, mercerizers, among others;
- About 40% of the national indigo and jeans production is done with Altus technology.



Complete solutions for control and supervision of fuel loading in different modes of transport.

 Reliability and safety on the preparation of products for road, rail and hydro transportation, monitoring the process since the placement of the order to its delivery to the gas station.



LOADING BASE | SUCCESS STORIES

Ipiranga AutobasiWeb

Fuel loading control system

- Gasoline, ethanol and Diesel load supervision;
- Vehicle, users and scheduled loads control;
- Volume and temperature control;
- Web interface for registration and configuration of parameters, products movement and stock management.





Skilled Experts and high technology for new industry challenges

- Personalized service from the beginning to the end of the project;
- Blowers, packers, baggers, labelers, injectors or extruders, whatever your business, we have the knowledge and the necessary experience to transform the results of any type of machine.





OEM MACHINES | SUCCESS STORIES

Pavan Zanetti Blowers

Development of the Blowers Continuous Extrusion control system

- Supply of hardware, development of software and follow up of all steps of planning, execution and post analysis of the project;
- The solution enabled the machine to execute the backward and forward moves of the table, as well as the control of thickness of the blown containers in a very short time:

 Less than 3 ms.









Become a specialist in Altus Technology



Regular training agenda



Special and in-company courses, in accordance to the needs of customers







85% of cases solved in up to 2 hours



Specialized technical support



Online base of knowledge with support material



Capable of producing world-class products



50.000 components/hour



RoHS compliant



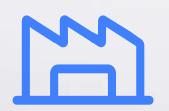
São Leopoldo Rio Grande do Sul

PROCESSES:

- SMT electronic assembling
- PTH electronic assembling
- Mechanical complementation and functional tests
- X-Ray inspection and visual equipment



Complete infrastructure for the development and testing of large projects



3,500 m2 of modern environment



Special rooms for Factory Acceptance Tests (FAT)



Production of automation and power panels



Sapucaia do Sul Rio Grande do Sul



A multidisciplinary team composed by professionals with different skills

We believe in people's potential, hence, we put efforts in the development and maturing of people's talents through the investment of continuous education and specialization. Today, we count on a multidisciplinary team formed by highly skilled proffessionals with vast experience, which is a true selection of stars!



Community and company working together for the society

Our concept of social responsibility considers not only personal and professional growth of our employees, but also the promotion of education, culture and entertainment of communities which have a connection with us. Our actions seek to contribute for a more conscious society, involved with their own needs.

































































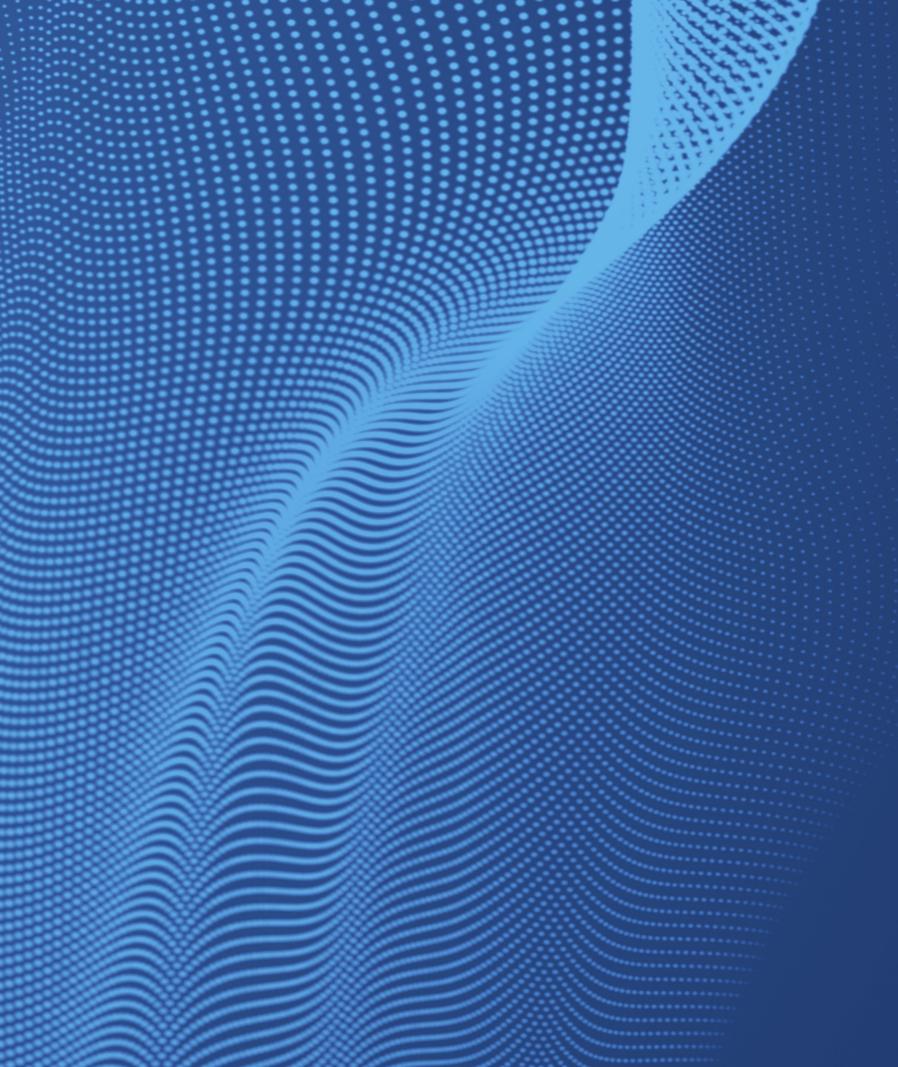












in altus-automation /altussa





KNOW MORE ABOUT OUR PRODUCTS AND SOLUTIONS www.altusind.com



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