

 **intecsa**
industrial

 **INITEC**
Energía

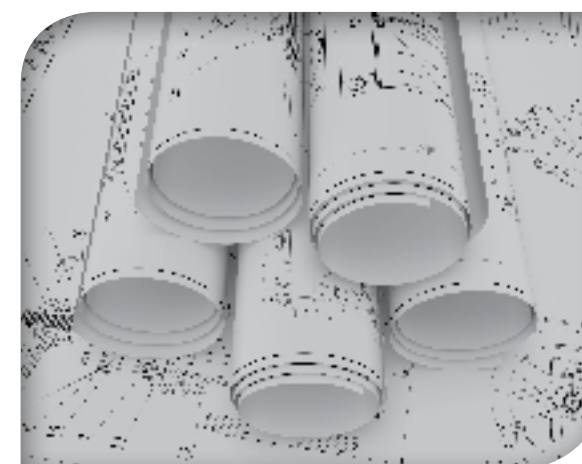


CORPORATE PROFILE



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1. ACS GROUP

Largest Private International Construction Group in the World

ACS's history spans 30 years of integration of companies and businesses, allowing it to become the world leader in the Design & Construction of Industrial Plants and operation of infrastructure and energy assets.

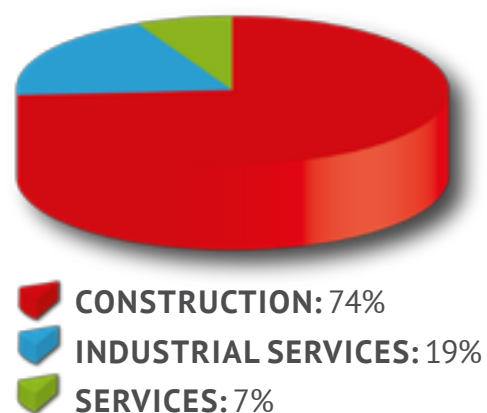
2016 TURNOVER
MILLION EUROS



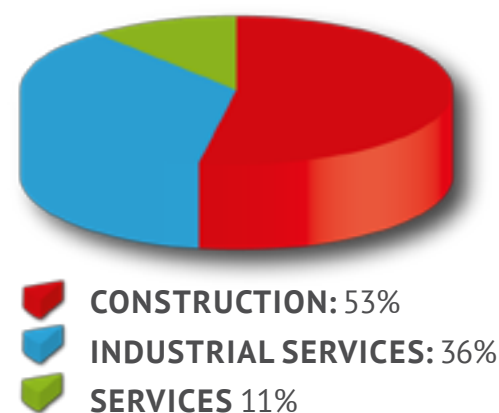
NET OPERATING PROFIT (EBIT)
MILLION EUROS



2016 TURNOVER
BY AREA OF ACTIVITY



2016 GROSS OPERATING PROFIT (EBITDA) BY AREA OF ACTIVITY

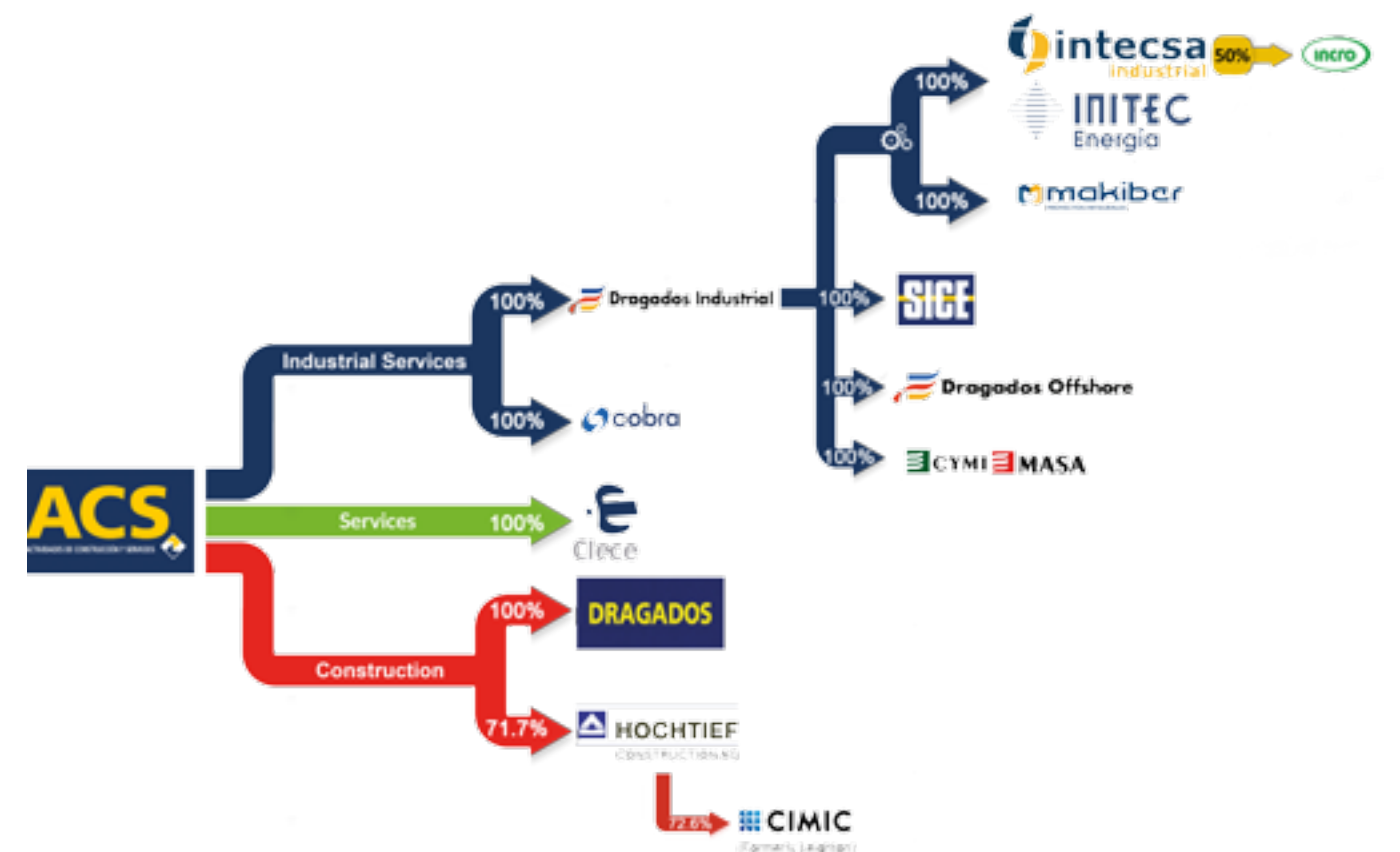


The ACS Group is a worldwide reference in the construction and services activities. A group taking part in the development of key sectors for the economy such as infrastructures and energy. A company committed to the social and economic progress of the countries in which it is present.

The success of the Group's performance is based on an efficient organization and a dynamic and entrepreneurial management implemented through successive processes of mergers, takeovers and strategic plans committed to client's satisfaction as well as to maximizing profitability for its shareholders.



ACS Group, along with its investee companies Hochtief AG and CIMIC (formerly Leighton Holdings LTD), is the **Largest International Construction Group in the World** for the fourth year in a row.



ACS operates in all five continents and has permanent offices in 65 countries and more than 210,300 employees.

2. ACS

INDUSTRIAL SERVICES

The ACS Group's Industrial Services area is one of the main global competitors in the field of applied industrial engineering, with projects in more than 50 countries. Its activity is focused on the development, construction, maintenance and operation of energy, industrial and mobility infrastructures through a large group of companies.



The Industrial Services area holds a leading position in the Spanish market, as well as having extensive experience and steady involvement in executing projects and providing services in Latin America where it occupies a leading position in several of the most significant countries such as Mexico and Peru. Similarly, in Europe it is consolidating its position in the performance of projects and services in countries like Germany, Portugal, Italy, Romania and Ireland. It is also increasingly involved in the remaining geographic areas, such as North America, Africa, the Middle East and Asia Pacific countries, where the Group has been awarded significant industrial engineering projects and counts with permanent presence in the most important countries.

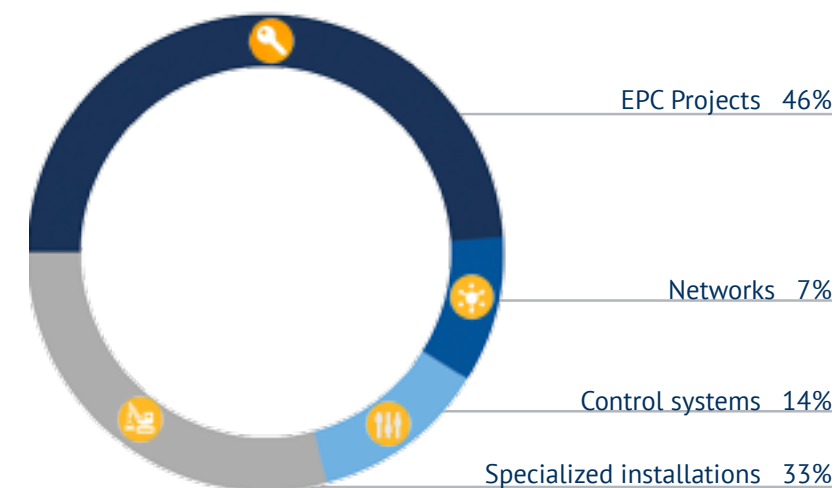
Development, construction, maintenance and operation of energy, industrial and mobility infrastructures through a large group of companies

Support Services to Industry engages in industrial maintenance and include three areas of activity:

- **Networks:** maintenance activity of electrical, gas and water distribution networks with over 80 years of experience.
- **Specialized Installations:** combines the activities of construction, installation and maintenance of high-voltage electrical networks, telecommunications systems, railway installations, electrical installations, mechanical assemblies and climate control systems.
- **Control Systems:** ACS has become the leading provider of engineering, installation and operation of control systems for industry and urban services.



TURNOVER BREAKDOWN BY ACTIVITY



TURNOVER

6,256 M EUROS

ACS Industrial services operates in all five continents and has more than **40.800 employees** in **50 countries**.



Turnover by Geographical Areas

3. INTECSA - INITEC

INFORMATION

International leading contractors in “Turn-key” projects for Oil and Gas, Fertilizers and Energy industries.

With more than 50 years of experience, **Intecsa Industrial** is a Spanish leading contractor in Engineering, “Turn-key” execution of industrial plants and supply of technological packages, for both domestic and international projects.

Intecsa Industrial provides a complete and efficient range of services, based on its technical capability, its extensive range of experiences, its capacity of over **1,500,000 technical man-hours per year** and its state of the art information and technology department, dedicated to the project integration management.

Initec Energía is one of the largest engineering companies in Spain within the EPC electricity generation sector, with the construction of power plants being the main activity of the company.

The activities of Initec Energía are focussed on the “Turn-key” EPC execution of electricity generation facilities. Included in this range of services is project management in all its stages: energy consultancy, basic and detail engineering, management of supplies and sub-contracting, supervision of construction and



INTECSA - INITEC

HEADQUARTERS

start-up, and support for exploitation in turnkey projects.

Intecsa Industrial and Initec Energía are part of the Industrial Division of ACS Group, a worldwide reference in the construction and infrastructure development industries, both civil and industrial, and one of the leading companies in the services sector, which has been

leading the ranking of International Contractors since 2013.

During 2016 both companies combined their technical and human resources and are currently completing a merge process whereby Intecsa Industrial will become a world reference in the Industrial Projects and Energy Sector.

INTECSA-INITEC HIGHLIGHTS

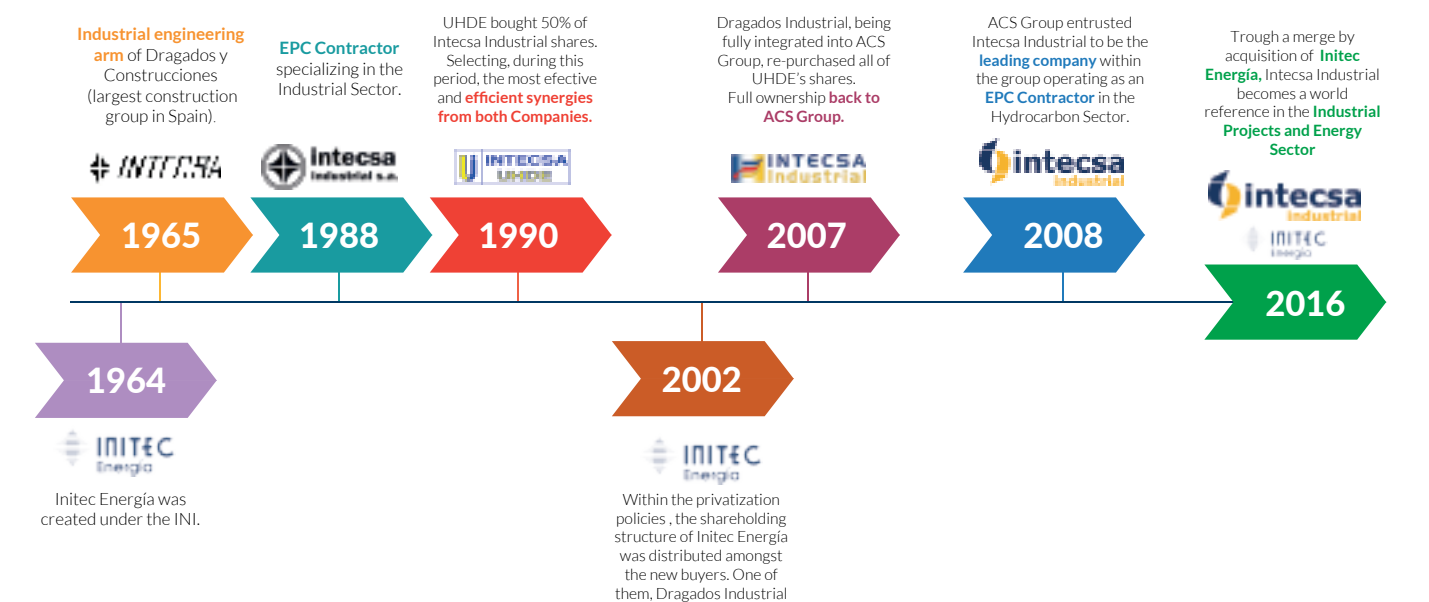
Highest quality in Engineering, Procurement and Construction services, meeting and exceeding the client's requirements.

- 1 Successful experience in **more than 700 Engineering & Construction** projects performed for major Oil, Petrochemical and Energy companies **around 50 countries** in all continents.
- 2 More than **30,000,000 Construction man-hours per year** in major EPC projects.
- 3 **Flexibility to deploy resources** wherever are needed in accordance with project requirements.
- 4 Engineering & Construction personnel **fully acquainted with international standards** and latest technology developments.
- 5 **Latest and most advanced IT Software** for Engineering, Project Management, Procurement, Document Control, HSE, Risk Assessment, etc.



More than 50 years of Leading Engineering Contractors in Spain

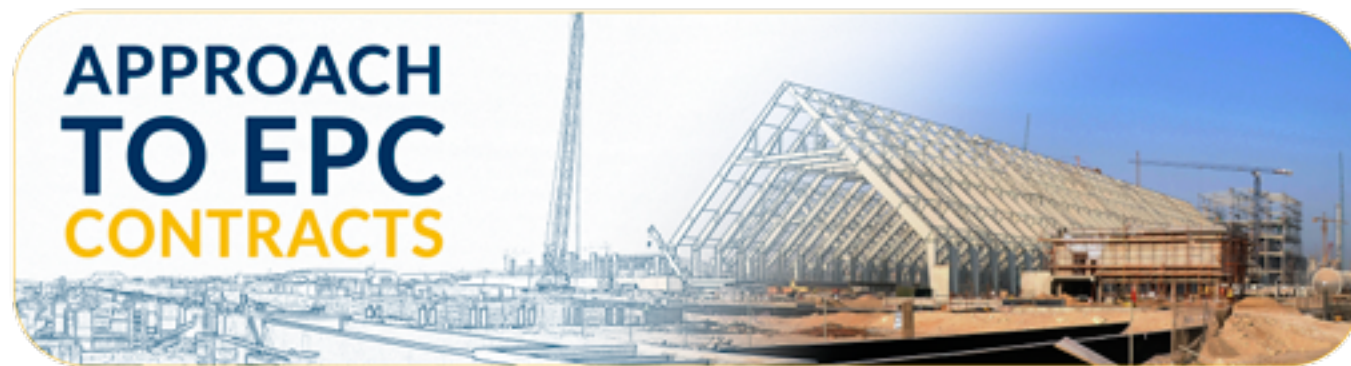
OUR HISTORY



4. EPC

EXPERTS

Success in the LSTK-EPC Services sector is achieved through a combination of excellence in technical execution coupled with experience in project integration management.



PROJECT MANAGEMENT & EPC SERVICES



Success involves identifying the correct results required and knowing the right steps, which includes recognizing the wrong steps. Intecs Industrial and Initec Energía have a clear understanding of what it takes to accomplish the overall objective effectively. And that means doing the job quickly, and well. On budget, on time.

Given the multidisciplinary profile of our technical team, Intecs and Initec undertake projects on an EPC basis, either individually or in partnership, covering Engineering, Procurement and Construction. Indispensable knowledge of the principal suppliers and sub-contractors in different areas makes Intecs Industrial a company of outstanding resources, agile and competitive in the execution of its projects.

Whenever an issue pops up during the project execution, our professional team is attuned to identify and develop solutions that will mitigate the risks without significantly affecting the progress of the works.

Employees of Intecs and Initec are fully committed to ensure that the project is completed within schedule, with high quality and safety standards, ready to safely be operated.



KEY FACTORS

- Fully integrated team** during all project phases. Team building and coaching to motivate the team and to focus on common goals.
- Selection of staff** based on quality, experience and ability to perform and deliver.
- Use of our experience and knowledge** of local markets to obtain the best selection of Subcontractors.
- Extensive experience** to guarantee successful commissioning & turnover.
- Maintain a dedicated focus** on HSE and quality from design to commissioning and hand over.
- Use of IT systems** to simplify and speed up communications between the parties involved in the project.



Alignment of the project team, contractors, suppliers and operators to the owner's objectives for success.

5. SCOPE OF SERVICES

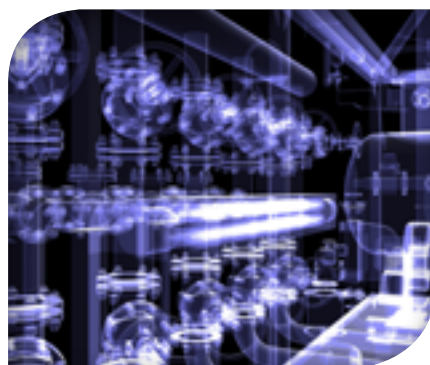


ENGINEERING

Intecsa and Initec standard work procedures are followed by our engineering department. Specific procedures for each Project will be issued only when the standard procedure requires being adapted to the Project requirements.

Project Specifications will be developed in the early stage of each Project. They will be based on the Client specifications, which will be completed by Intecsa Industrial when it is a project requirement. If additional specifications are required to complete the design package, they will be prepared by our Engineering group and will be submitted to the Client for approval.

We consider of vital importance the dedication and ability of its employees to work hand-in-hand with our clients to meet their goals and expectations.



Design capabilities

Our process design capabilities align each design procedure to the customer's project objectives to optimize its success. The conceptual design phase offers the best opportunity to assess business, commercial and technical risks; and to improve return on investment.

During conceptual design, both companies establish the early project definition of the engineering, procurement and construction (EPC) requirements and a detailed project estimate. Services include feasibility studies, project-development planning, technology evaluation and recommendations, risk-management assessment, global sitting, financing planning, constructability reviews, asset and life-cycle optimization over the facility's lifecycle and front-end engineering.

Intecsa and Initec will advise the Client on the strategy and selection of equipment with lower investment cost, but considering the integrity of the operation of the plant and the total cost of ownership (TCO – which includes investment and operation costs, taking into account shutdowns, maintenance and spare parts) so as not to impair the competitiveness of the plant in the medium and long term.



PROCUREMENT

Procurement services are performed by specialist in engineering works and specialist in material management. The team is organized on a commodity basis and is the focal point of acquisition expertise for each given commodity, providing acquisition support through all phases of the project execution. The team is divided into five major areas, which are: Procurement, Expediting, Inspection, Logistics and Invoicing.

Within the department we have the Coordinators and the Buyers. The Buyers are specialized engineers in Static Equipment, Dynamic Equipment, Piping, Electrical & Instrumentation Equipment and Material.

Each project has a Coordinator who is the person responsible for all the activities related to Procurement, Expediting, Inspection, Traffic and Logistics.

CONSTRUCTION SUPERVISION

The aim of the construction implementation is to achieve success in safety, quality, schedule and performance.

It is the policy of Intecsa and Initec to perform all required Construction Services in every project in full compliance with contractual commitments, applicable regulatory standards and recognized and sound engineering practices in a way that protects and preserves public health,

“As important as technology is for the success of a project, the skills and commitment of the people involved are even more critical. That's why, in addition to the high level of ability represented by the group as a whole, each of our task-force teams is headed by a manager carefully selected for the skills and experience needed to lead the entire project.”



safety, environment and welfare.

Both companies, in coordination with our construction affiliates, implement an adequate mobilization plan to ensure the successful start-up of the construction activities and will establish all necessary procedures after contract award.

Intecsa and Initec allocate dedicated work crews for each discipline in the Construction team. These crews are directed by foremen who reports directly to the discipline supervisors of Intecsa Industrial. By using the latest IT programs, Construction scheduling will determine the optimum size and composition of the crews. Our supervisors, with extensive and proven experience, are fully committed to assure the efficient utilization of the work force, tools and equipment under his responsibility.

PROJECT COORDINATION

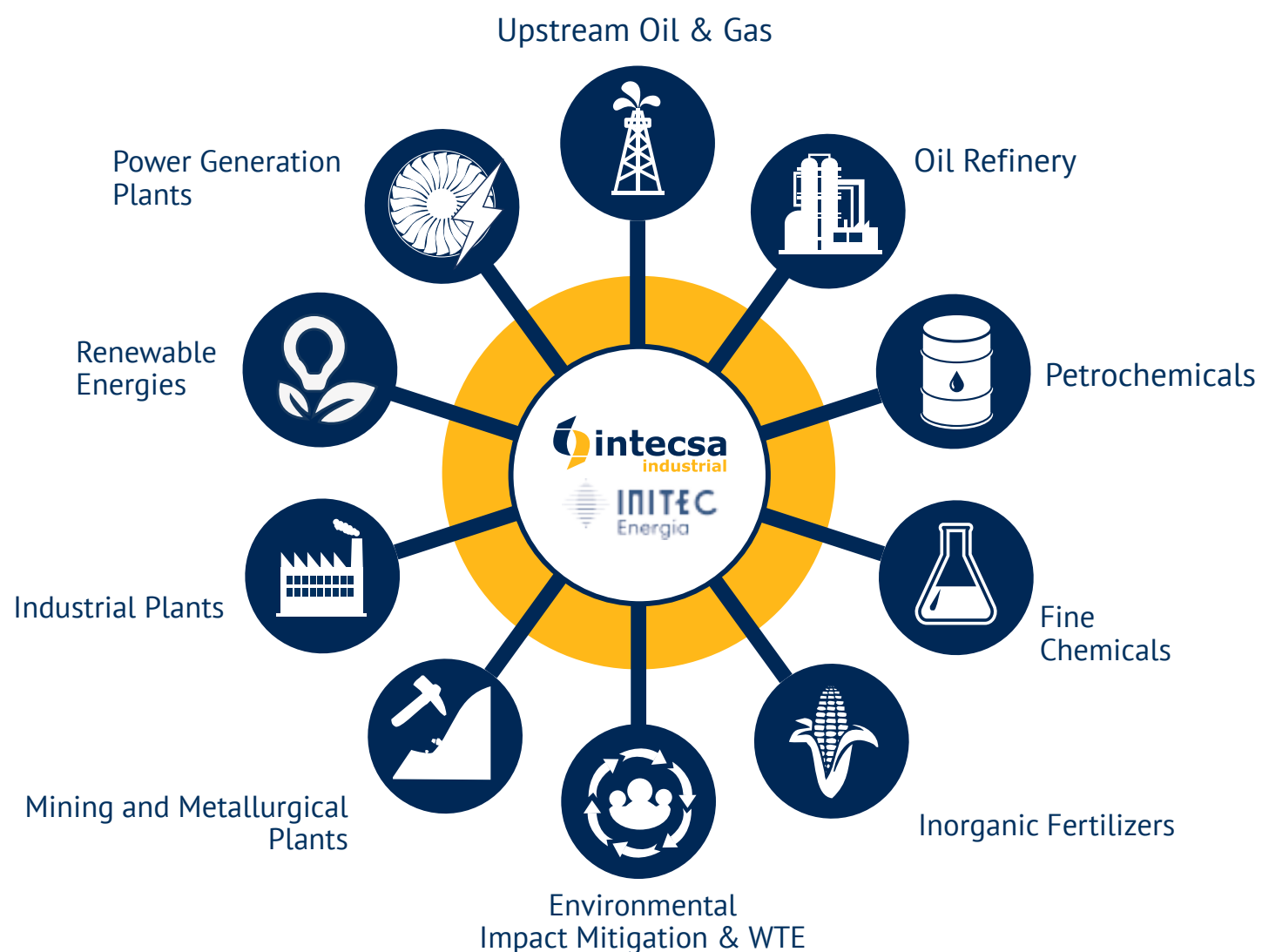
To ensure an efficient coordination, we use in-house tendering procedures to address and coordinate the tender information and take the fundamental decisions regarding the participation in the tender.

The advantage for our clients and partners is that we conduct our relationships from a single point of contact, through the guidance and strategic supervision of our management.

6. FIELDS OF

ACTIVITY

Veterans in process related projects, Intecsa Industrial and Initec Energía have centered their field of activity towards the execution of downstream undertakings. Throughout its history, it has incorporated available technological advancements to the most sophisticated industrial services production. Thus becoming a reference in Oil, Gas, Mining, Fertilizers, Chemicals Processing and Refining, Industrial and Modular Installations, Environmentally friendly Waste Treatment and Power Generation Plants.



We strive to meet and exceed the requirements of our clients by the professional, committed and integrated effort of our dedicated personnel, providing a full range of quality EPC services.



UPSTREAM OIL & GAS

Crude Oil and Natural Gas Installation Terminals, NGL recovery and raw pretreatment prior to fuel processing. EPC of natural and conventional storage facilities for strategic resources.



PETROLEUM REFINING

Experienced in engineering all process units established in the market for leading International Energy Companies in collaboration with key Technology Licensors.



PETROCHEMICALS & FINE CHEMICALS

Synthetic processing of Olefins, Aromatics and Organic Derivatives for major Polymers, Chemicals and Composites Production Companies.



INORGANIC FERTILIZERS

Largest fertilizers plant production facilities EPC Contractor in the Middle East. Prime in inorganic fertilizers' industry. Capital Shareholder of Leading Technology Developer and partner.



INDUSTRIAL PLANTS, MINING & WTE

Above ground mineral and fossil process facilities for metal, salts and rock resourcing. Particle Compost production and waste reprocess.



POWER GENERATION PLANTS

Over 24.000 MW installed in international projects. Extensive experience providing Power services, including Coal, Combynd Cycle, and Renewable energies.



Become one of **leading EPC contractors** specialized in the industrial sector, developing full integrated projects for our shareholders in the Oil & Gas and Energy Industry.

UPSTREAM OIL & GAS



We have successfully delivered Engineering, Procurement and Construction of onshore oil and gas field developments, oil and gas processing terminals, and underground gas storage. Types of facilities include, but not limited to:

- Gathering systems and pipelines
- Oil/gas/water separation
- Crude dehydration and desalting
- Gas and liquids treating
- Gas compression and drying
- Gas dehydration, desulfurization and sweetening
- Produced water treatment and disposal
- NGL production

Gas Processing

Intecsa Industrial is specialized in the design and construction of world scale gas treatment complexes.

Our technical expertise comprises the development of gas processing projects from production facilities both onshore and offshore.

Oil Production

Our services in this area are mainly focused in Turn-key EPC solutions. Intecsa Industrial designs and constructs all types of facilities for the development of onshore oil fields. From wellheads to treatment centers and from product transportation to export facilities, covering:

- Gathering lines.
- Manifolds.
- Gas-oil separation plants (GOSPs).
- Pumping stations.
- Oil storage and unloading terminals.
- Sour oil processing.



GAS & NGL EXPORT FACILITIES

The primary purpose of the facility is to collect excess Khafji lean gas, Hout (KRL) rich sour gas and Khafji NGL produced in KJO facility and send these to export facilities after splitting in equal quantity and measuring flow rate to respective facilities. The aim is to achieve the corporate objective of “1% flaring” as well as to recover valuable hydrocarbon residues as much as possible.



OUTSTANDING PROJECTS



UNDERGROUND GAS STORAGE SURFACE INSTALLATION

Underground natural gas storage in an anticline structure 2,300 m deep, at Guadalajara province. Its function is to provide flexibility to gas grid system to cope with demand fluctuations and strategic governmental reserve facing possible supplies failure.



REVAMPING AND CAPACITY INCREASE OF PRODUCTION FACILITY

Revamping of current facilities for crude oil treatment and capacity increase up to 75,000 bpd. Water split and re-injection in extraction wells, crude transport through existing pipeline up to Lago Agrio. Current treatment facilities are located at Block 16 named NPF and SPF. Revamping of transport and pumping up to 150,000 bpd.

PETROLEUM REFINING



Intecsa Industrial provides a widespread range of refinery processes solutions acquired in our more than 50 years of global experience in grass root, revamp, expansion and petroleum refining projects. Through this experience we have successfully delivered a vast number of refining projects all over the world, ranging from conceptual design and economic studies up to commissioning and start up.

From a process technology point of view, Intecsa Industrial has large experience in either open art technologies or with most important process licensors.

Intecsa Industrial is also well experienced in the design of refining ancillary units such as sour water, gas treating, sulphur recovery and utilities.

Process units

Intecsa Industrial has successfully executed process engineering of a great number of process units throughout the world. Our successful experience in the design and construction of refining process units allow Intecsa Industrial to deliver high-quality engineering services while meeting the most exigent schedules and safety standards.

Since 1965, Intecsa Industrial has provided a large variety of services (conceptual studies, revamping, LSTK-EPC, etc.) to the world-leading refining companies.

Utilities and Offsites

Intecsa Industrial has participated in projects where the scope of work was only limited to the utilities itself and its distribution to the

other contractors in charge of the process units which required controlling, coordinating and managing all the interphases with these consumers or utility producers.



DUBA ULTRA LOW SULPHUR DISTILLATION

Installation of two Amine Regeneration Units (76,736 kg/h rich Amine), a Sour Water Treatment Plant (10,000 BPSD), a Hydrogen Production Plant (28.5 MMSCFD), a Revamping of the Hydrodesulphurization Unit for Intermediate Distillates (25,000 BPSD) and a Hydrodesulphurization Unit for Diesel (25,000 BPSD).



VACUUM, MEROX AND VISBREAKING UNITS

EPC Services for the expansion and modernization of La Pampilla refinery, with a Vacuum distillation unit with 36.000-BPSD capacity, and a Visbreaking unit with 27.000-BPSD capacity.



SURPLUS FUEL-OIL REDUCTION UNITS

Gassroots units included: Delayed Coker (2.000 kta), Gascon (50 kta), LPG Merox (100 kta), Butadiene hydrogenation (42 kta), Amine regeneration (1.088 kta), Sour water stripper (380 kta), Naphtha hydrodesulphurization (225kta), Flare gas recovery (13.000 Am3/h), Coke handling (475 t/h), Electrical substation (29 MW).

OUTSTANDING PROJECTS

EXPANSION & MODERNIZATION OF REFINERY

The project consisted of the refinery's crude processing capacity expansion from 100,000 BPSD to 200,000 BPD and increase its capacity to convert heavy crude products into high-value products.

The expansion includes the addition of following grassroots units:

- Vacuum Distillation Unit (VDU) - 5,000 kta
- Delayed Coker Unit (DCU) - 300 kta
- Gaseen Unit - 660 kta
- Merox LPG- 1,128 kta
- Selective Butadiene Hydrogenation - 58 kta
- Amine Regeneration Unit (ARU) - 2,523 kta
- Sour Water Stripper (SWS)- 1,760 kta
- Sulphur Recovery Units (SRU) - 320 Ud



Refining projects



PETROCHEMICALS & FINE CHEMICALS



We have completed hundred of projects, from basic design and small process unit revamps to large integrated grass roots petrochemical complexes.

We have provided the required confidence to our clients by working closely with the loading of process licensors.

Intecsa Industrial has experience in a broad range of product facilities; however we emphasize our considerable experience in olefins, aromatics, fibre intermediates (TA and PTA), polycarbonates and other polymers. We have experience in fine chemicals, such as Isoprene, Styrene monomer, Isopropane, and Butadiene.

Intecsa Industrial has also significant expertise in different stages of the aromatics production, from feedstock preparation, through reaction units, up to aromatics separation, such as Phenol, Benzene extraction and Xylene isomerization, all executed with full and final customer satisfaction, demonstrating Intecsa Industrial high level of expertise.

Olefins has been the core of Intecsa Industrial experience in the petrochemical sector with a big list of references in Ethylene derivates, such as Ethylbenzene, Ethylene Glycosl and Polyethylenes. Propylene associates such as polypropylene and polyols have benn a prominent part of our trackrecord.

Finally, other derivates from high density carbonates such as Isobutylene, butadiene, MTBE and rubbers have been constantly in our backlog.



POLYOXYMETHYLENE POM PROJECT

The aim of the project is to build a PolyOxyMethylene (POM) plant in Jubail Industrial City located in the eastern region of Saudi Arabia. Once completed, the plant will produce the polymer continuously at a rate of 50,000 tonnes a year. Complete grassroots complex including de OSBL facilities.



OUTSTANDING PROJECTS



STYRENE MONOMER AND PROPYLENE OXIDE PLANT

The project consists of a grassroots styrene monomer/propylene oxide (SMPO) plant, with a design capacity of:

- Propylene Oxide 150,000 TPY
- Styrene Monomer 340,000 TPY
- Glycols of 50,000 TPY
- Flexible polyols of 135,000 TPY
- Polymeric polyols of 20,000 TPY



REPLACEMENT OF ETHYLENE OXIDE (EO) REACTORS

Each of the five facilities has two reactors to be managed and they all range between a 900 and 1,500 tonne frame, making the substitution operation extremely complex. The works are carried out in a coordinated stepped operation. Succesfully executed with appreciation form Client.



PTA AND TA PRODUCTION PLANT

The complex has a design capacity of 500,000 t/year. Contract also included the offsites and auxiliary services, and in particular grassroots effluent treatment plant and a catalytic oxidizer.

Licensing was developed by Intecsa Industrial side by side the Client.

FERTILIZERS



Working hand in hand with world well-known licensors, including our subsidiary company INCRO, we provide a full range of integrated services starting by giving support in the early stages of their development.

Intecsa Industrial is currently one of the leading companies in the design and construction of fertilizers plants.

Intecsa Industrial has executed a EPC-LSTK project for the construction of the biggest DAP (Diammonium Phosphate) plant of the world (3 MM Ton/y of DAP/ MAP).

Currently, Intecsa Industrial is executing the second phase of Ma'aden incharge of the new DAP/ NPK Plant, along with the Offsites

& Utilities and Infrastructure for the complete Fertilizer Complex.

There is a large list of licensed technologies in fertilizers made by Intecsa Industrial Subsidiaries. Either liquids and solids, originated from Nitrogen or Phospates, food grade or explosive grade, crystalline or granulated. Some of them are:

- Ammonium Nitrate (AN) and Calcium Ammonium Nitrate (CAN)
- Diammonium Phosphate (DAP)
- Monoammonium Phosphate (MAP)
- Nitrogen-Phosphorus base (NP) and Nitrogen-Phosphorus- Potassium base (NPK)
- Triple Super Phosphate (TSP)
- Single Super Phosphate (SSP)
- Ammonium Polyphosphate (APP)



PHOSPHATIC FERTILIZER COMPLEX

The Project scope covers the development of a Sulphuric Acid Plant with capacity 1,900 MTPD per each, and a DAP & TSP Plant, with with a production capacity of 1,200 MTPD.



AMMONIA STORAGE AND DISTRIBUTION UNIT

Complete facilities for a 150,000 Tons Ammonia Storage & Distribution Plant. The scope includes the Ammonia Storage Unit, Interconnection and Distribution Lines, and Auxiliary Facilities.



PHOSPHATE FERTILIZER PROJECT

Design and construction of a phosphate fertilizer plant with a capacity to process 4.5 million TPY of phosphate concentrate, producing record 2.9 million TPY of granule di-ammonium phosphate (DAP).

OUTSTANDING PROJECTS

UMM WU'AL PROJECT DAP/NPK PLANT

This project covers the DAP/NPK process plants with final product storage facilities at both the process area and the port, ship loading facilities, interfaces, integration with the existing and new facilities and utilities.

The DAP/NPK Plant consists of four granulation united arranged in pairs. One pair consists of two DAP units in a common building and the other pairs consists of one NPK/DAP and one DAP unit in a separate building.

The combined DAP units are designed to yield 2,228,094 Mtpy. The NPK unit is designad to yield 766,920 Mtpy.

This new complex is considered the largest DAP/NPK plant in the world and is the second DAP plant built by Intecsa Industrial for Ma'aden.



INDUSTRIAL PLANTS, MINING & WTE



As a direct result of the significant contribution of Intecsa Industrial's historical shareholders, we have been selected for the execution of a sizeable list of Industrial developments in Spain, and overseas.

With our extensive experience in USW treatment and Incineration, Wood, Pulp & Paper, Cement and Waste Treatment Plants, Intecsa Industrial is considered the most reliable engineering choice for our customers.

Intecsa Industrial has built along the years a reputation as a provider of quality engineering and project services to the minerals, metals and chemicals industry, achieving the successful delivery of complex processing plants.

Mining and Metallurgical Processing

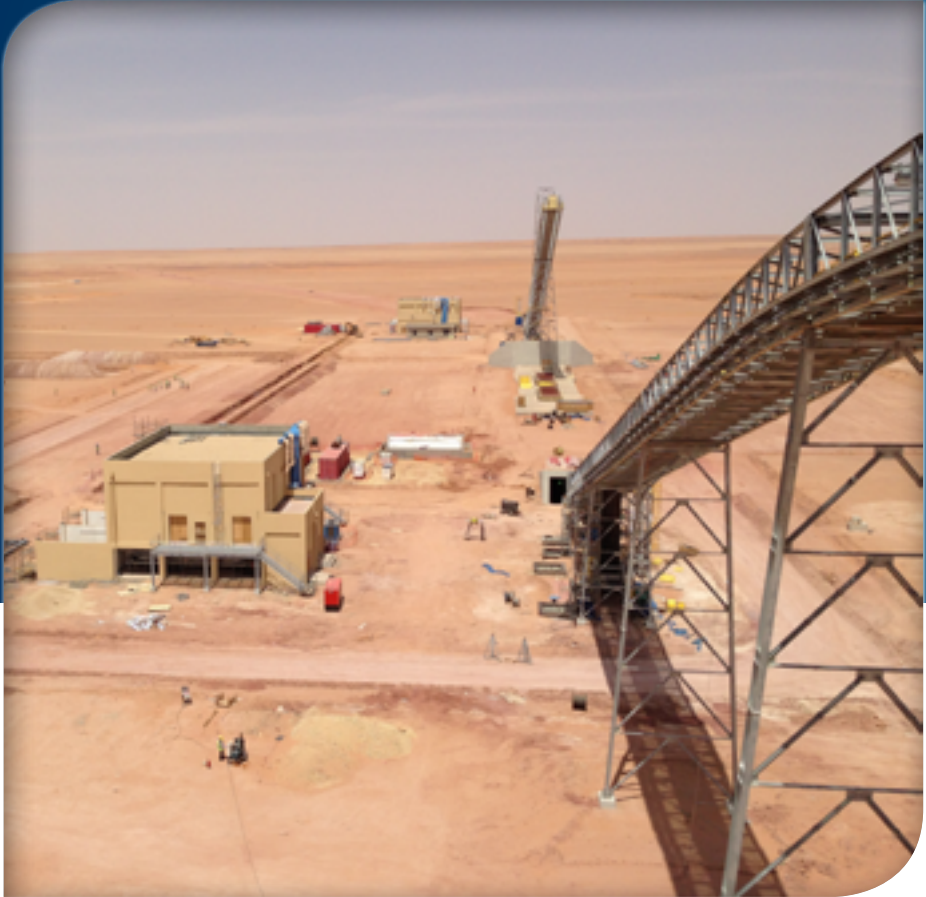
Intecsa Industrial has experience in mining and metallurgical projects ranging from copper concentrators and copper smelters to bauxite processing facilities to obtain alumina to be subsequently fed the electrolytic cells for aluminum production. Material handling of a wide range of bulk products including all types of conveyors, stackers, reclaimers, ship loaders and unloaders is one of the expertises within Intecsa Industrial.

Waste Treatment

Intecsa Industrial, as a well-known contractor with an important process expertise, is highly skilled in the execution of urban and industrial waste treatment projects, such as anaerobic digestion, waste incineration, gas recovery from

disposal sites, compost production, among others.

Intecsa Industrial is one of the very few Engineering and Construction entities in the world with proven expertise in the handling and treatment of the NORM wastes coming from Oil & Gas sector.



AL BAITHA BAUXITE MINE INFRASTRUCTURE

Supply all adequate and competent labour, supervision, tools, equipment, installed and consumable materials, services, testing devices and warehousing and each and every item of expense necessary for the design, engineering, installation, construction, assembly, testing, evaluation, and quality assurance of Ma'aden Mine Village, Infrastructure and Utilities, Material Handling and the Temporary Facilities.

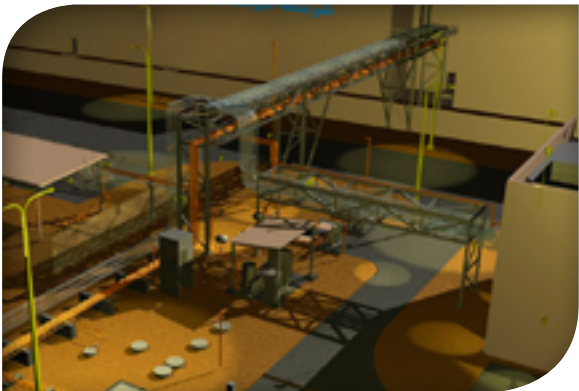


OUTSTANDING PROJECTS



USW TREATMENT PLANT AND ELECTRIC GENERATION

Plant for urban solid wastes treatment, including classification for recovery of recycable wastes, organic fermentation in automatic system to obtain commercial compost, incineration and electric power production, with a treatment capacity of 1,200 t/day.



NORM HANDLING PROJECT

This is a state of the art facility, first on this kind able to handle, treat and dispose the "Naturally Occurring Radioactive Materials" (NORM), generated during drilling operations at the oil and gas field exploration of Abu Dhabi National Oil Company affiliated companies in the United Arab Emirates.

POWER GENERATION PLANTS



Combyned cycle

The facilities within which our company has undertaken its activity add up to total power of close to 9000 MW. This participation covers everything from Owner’s engineering to the “Turn-key” provision of facilities, as well as feasibility studies, execution of refurbishments and improvements to existing facilities, passing through design phases, detail engineering, management of materials and sub-contracts, supervision of construction, tests, start-up and support for operation and maintenance.

Conventional Thermoelectric Power Plants

In the sector of Conventional Thermal Power Plants, Initec Energía is an important benchmark company in the national market through its own merits, having actively participated in

the engineering of the majority of the plants undertaken throughout the country. With more than 50 years of experience in the sector, the objective of our company is to maintain and increase the level of quality that characterizes our service, committing to technological innovation, efficiency and respect for the environment.

Co-Generation

Initec Energía has developed cogeneration facilities operating with multiple fuels namely refinery fuel gas, naphtha, propane, butane, natural gas and biogas.

Our designs feature a full integration with the existing facilities including the production of boiler feed water from seawater by means of multi effect distillation, or reverse osmosis.

Bio-Fuels

Biofuels (biogas, biodiesel, bioethanol, etc.) are rapidly turning into an alternative to fossil fuels. In most of the countries, legislation fixes the minimum content of biofuel to be added on the traditional fuels and, consequently, the biofuels demand is globally increasing.



PARNAIBA 4 COMBINED CYCLE POWER PLANT

The Parnaíba Complex comprises four thermoelectric plants installed in the municipality of Santo Antônio dos Lopes, in the state of Maranhão.

Parnaiba IV is a combined cycle power plant on a 2 x 1 configuration in the Brazilian state of Maranhao with a total power of 520 MW. The OEM (Original Equipment Manufacturer) are General Electric for the gas turbines 7FA and steam turbine and VOGT for the HRSG.



OUTSTANDING PROJECTS



JORF LASFAR THERMAL POWER PLANT

Turn-key project performed by a consortium of companies of which Initec Energía has developed the civil works, engineering and the supply and erection of a Coal-fired Thermoelectric Power Plant consisting of two units of 330 MW.



NAVOI COMBINED CYCLE POWER PLANT

EPC contract for a Combined Cycle Power Plant in a 1+1 multishaft configuration consisting of one gas turbine, one HRSG, generating steam to feed also a district heating network, and one steam turbine, generating 478MW in total



CARTAGENA COMBINED CYCLE POWER PLANT

Combined Cycle Power Plant for consisting of three units in “single Shaft” configuration, of 400 MW each (AES), generating 1200 MW in total

RENEWABLE ENERGIES



Biomass Thermoelectric Power Plants

A simple, sustainable and ecological energy source which Initec Energía knows how to convert into a profitable and sustainable solution with a bright future. Our company is firmly committed to the elevated potential of biomass and invests in technological innovation in order to provide quality services and integral solutions in accordance with the demands of our clients.

Solar Thermal Power Plants

Within Renewable Energies, Solar Thermal Power Plants have come to the force of the future of the energy sector. Initec Energía has been committed since the very beginning to the challenge of this technology, acquiring a know-how indispensable to continue innovating in this area,

thereby being able to continue providing its clients with more efficient, versatile and cost-effective facilities.



Geothermal Energy

Geothermal resources are becoming reliable and secure. Initec Energía current activity in the sector places us in a very favourable position holding the capabilities to undertake and complete satisfactorily the "Turn-key" solutions in this kind of projects.



MANCHASOL CONCENTRATED SOLAR POWER PLANT

Construction in "turnkey" modality (EPC) of a Concentrated Parabolic Solar Power Plant of 2x50 MW with salt-based Thermal Storage System.



ASKANDRA CONCENTRATED SOLAR POWER PLANT

Basic and detail engineering for the construction of two CSP power plants of 100MW with molten salts thermal storage system.



LAS PAILAS II GEOTHERMAL POWER PLANT

This geothermal project consist in a gross power of 55 MW in Single Flash with a production of 410 GWh/year including the reinjection steam system. This provide a significant extension to the already existing power plant (35MW)

OUTSTANDING PROJECTS

DUBA GREEN INTEGRATED SOLAR COMBINED CYCLE

The EPC Duba ISCC (Integrated Solar Combined Cycle) project consist of a combined cycle of 550 MW with two gas tubines and a solar field with the latest technology in solar collectors from Flabeg (Ultimate Trough) and Archimede tubes providing an extra output to the power plant of 50 MW.

Initec Energía is developing this project in consortium with SSEM as a local partner, and the Client is directly purchasing the main equipment of the power train.



7. HSE - QA/QC

SUSTAINABILITY

We have developed internal instructions and procedures which cover all necessary requirements to achieve the success of our projects. Ensuring compliance with Environmental Local Regulations and International Standards is a must



Health

Our Commitment with Health and Welfare of every single person involved in our projects is clearly embodied through the Development of Specific Health Carefulness Programs.



Safety

Full dedication of highly qualified professionals, along with performance continuous improvement, analyzing key indicators (KPI) and taking all the necessary preventive measures.



Environment

A suitable management of environmental impacts from human activity is the key to achieve the sustainability. Application of the best available technics to minimize the environmental affections is one of our core principles.

HEALTH & SAFETY PERFORMANCE

CONTINUOUS
reduction of accidents at
work over the past years



0.07 ACCIDENTS
FREQUENCY RATE
0.01 ACCIDENTS
GRAVITY RATE

MORE THAN
30
MILLION
Construction man-hours
per year

AWARDS & CERTIFICATES



ER-1787/2002



GA-2009/0359



SST-0162/2009



As part of our total compromise with the quality, 100 % of our activities are certified by ISO 9001:2008 since 1994.

QUALITY MANAGEMENT



Total Integration

We have developed internal instructions and procedures which cover all necessary requirements to achieve the success of our projects.



Client Satisfaction

Most of our clients work with us for the 2nd time.



Audits help us to find

our mistakes and improve. All our projects are audited internal and externally.



Extensive experience

We understand the quality as global part and transversal of the work, so the continuous training is one basic pillar in our work philosophy.

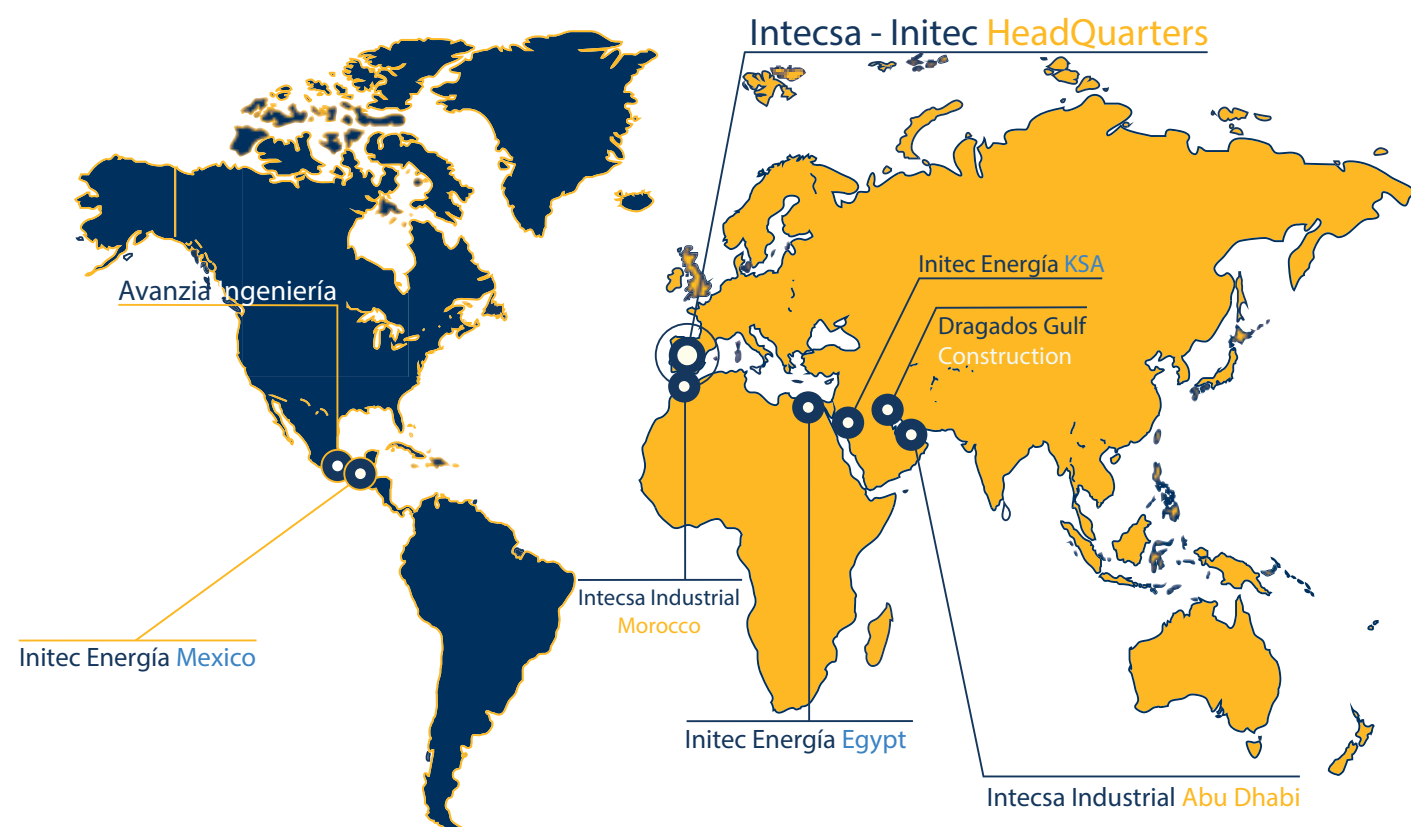


Excellence in Management

The success of the Intecsa Industrial's performance is based on an efficient organization and a dynamic and entrepreneurial management.

CONTACT

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