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PROJECT CARGO

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a division of TOTAL LOGISTIC SERVICES, S.L.

a leading team in cargo projects

The experience of our company in the management of industrial Projects allows us to offer logistic turnkey solutions in all sector types: Oil and Gas, Power Generation, Petrochemicals, Infrastructures, Industrial Plants, Mining, Off-Shore and Civil Construction.

Whatever you industry, our Project Division guarantees efficiency in the development of your needs without either delays or unexpected events.

We ensure project achievement within the best terms.

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a full **range** of **activities** to your service

- Integral logistic project management
- Transport viability studies.
- Multimodal transport
- Door to Door transport service
- Consolidation of cargoes
- Custom consultation and clearance
- Long term storage service
- Tax free areas implementation and management
- Document procedure
- Tracking of cargoes
- EDI services
- Heavy & oversized transport
- Dangerous goods
- Port operations
- Engineering services
- Maintenance and repairing service
- Position and installation of equipments onto foundations

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Project: ISCC AIM BENI MATHAR

Project Details

Date	: 2008
Project Name	: ISCC Aim Beni Mathar
Type	: Power Generation
Country	: Morocco
Location	: Oujda
Description	: Integral logistic management
Owner	: ONE
Technologist	: Abener

Project Brief

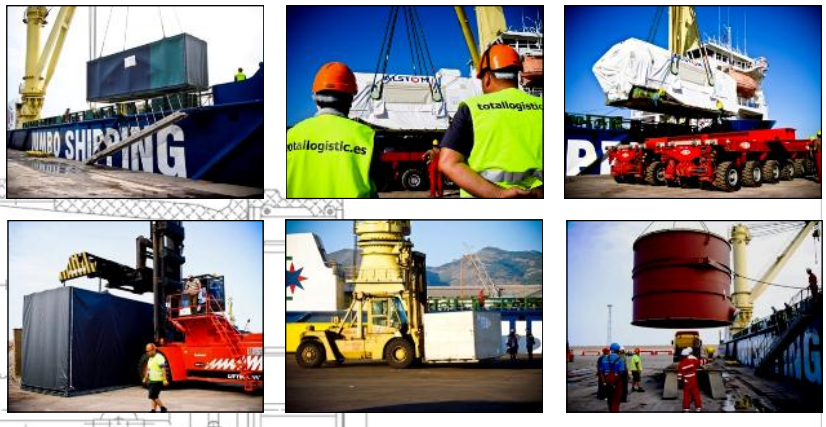
Morocco is an amazing country by itself but much more when you cross their roads with a modular trailer of 65 meters length propelled by three heavy trucks.

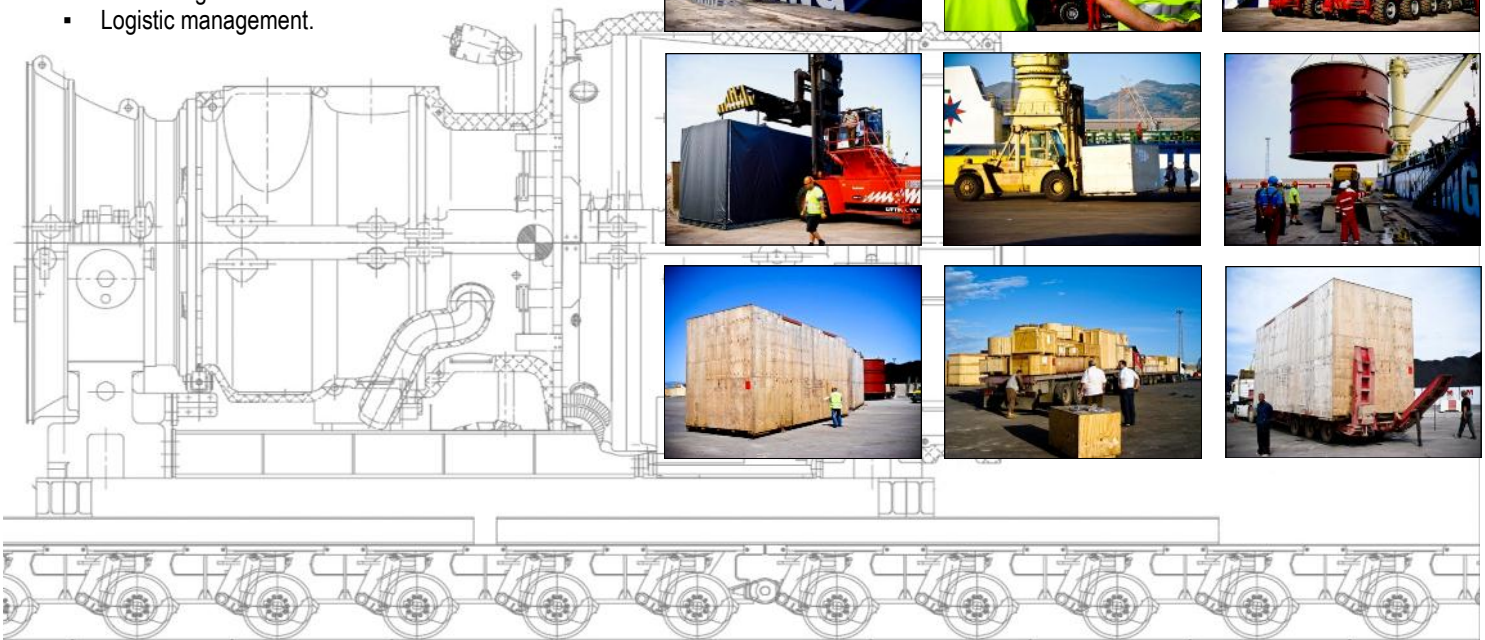
TOTAL was in charge of the logistic management of the power isle portion of this ISCC Aim Beni Mathar Thermal Power Plant project, a hybrid plant composed of a 2+2+1 configuration combined-cycle system (2x150 MW GT and 1x170 MW ST), waste heat recovery boilers and a cylindro-parabolic solar field with 183,000 m2.

In the scope of our company it was included the lifting, skidding and installation of 2 Gas Turbines and 2 Gas Generators on foundations in the jobsite.

Project Scope

- Port operations.
- Ship's agency.
- Custom's clearance.
- Intermediate storage service.
- Inland transportation from port to jobsite.
- Positioning on foundations.
- Logistic management.





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Project: SOLAR PLANT

Project Details

Date	: 2009
Project Name	: Photovoltaic Plants
Type	: Power Generation
Country	: Spain
Location	: Tenerife
Description	: Logistic Management
Owner	: Alondra
Technologist	: Solon

Project Brief

Total has been in charge of the logistic management of both photovoltaic plants have been built in Marzagan and Bailadero in the Canary Islands.

More than 200 semitrailers were needed to transport the total of components of this project from the south of Spain to the jobsites in the Canary Islands: 3.480 solar panels and 290 solar movers as gross mass of the shipments.

An efficient job for an efficient energy.

Project Scope

- Custom's clearance.
- Door to door transport service.
- Logistic Management.

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Project: SULFUR BLOCK & LPG MEROX

Project Details

Date	: 2008 - 2009
Project Name	: Sulphur Block & LPG Merox
Type	: Oil Refining
Country	: Spain
Location	: Huelva
Description	: Integral Logistic SCM
Owner	: FMM
Technologist	: CEPSA

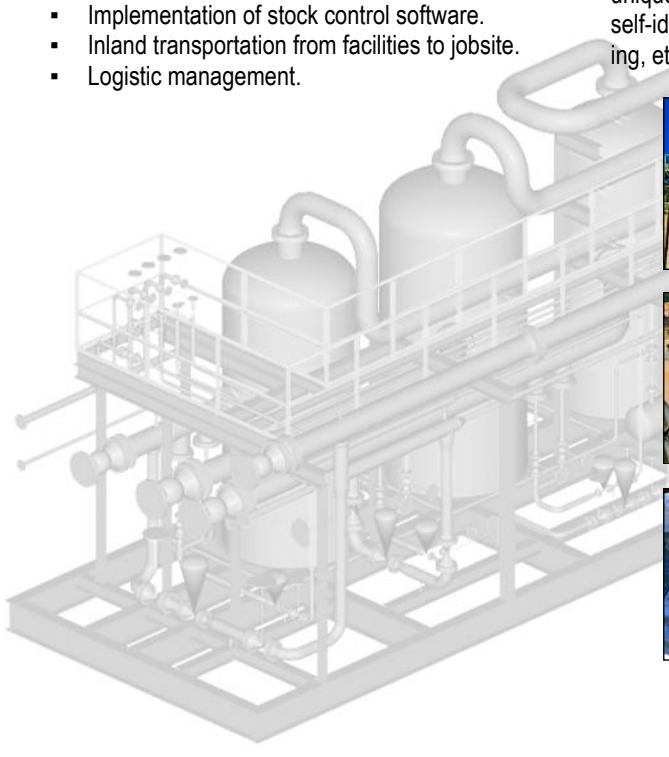
Project Scope

- Intermediate long term storage service.
- Maintenance services.
- Implementation of stock control software.
- Inland transportation from facilities to jobsite.
- Logistic management.

Project Brief

Our client, as one of the main subcontractors involved in the ACPDM Project (1.400 Millions Euros), required the professional job and capacity of our company to develop the logistic supply chain management of the materials required for the manufacture and assembly of the Sulphur Block and LPG Merox portion.

TOTAL was in charge to design the logistic pattern requested to control all materials supplied since the delivery as raw material to the assembly as finished product in the plant. TOTAL designed and arranged a logistic facility with 35.000 square meters for the storage of the materials including a warehouse of 1.500 square meters for stainless steel pipes and accessories. More than 150.000 inches of pipes, accessories, valves, structure and support beams. A software solution designed and developed by TOTAL for our client control the exchange of information about the materials during the project, tracking each material in each phase: manufacturing, painting and assembly. Our software is able to associate each unique material so all the processes to which it sends the same, maintaining information and self-identification of the material as cast material, number of license material, isometric drawing, etc.



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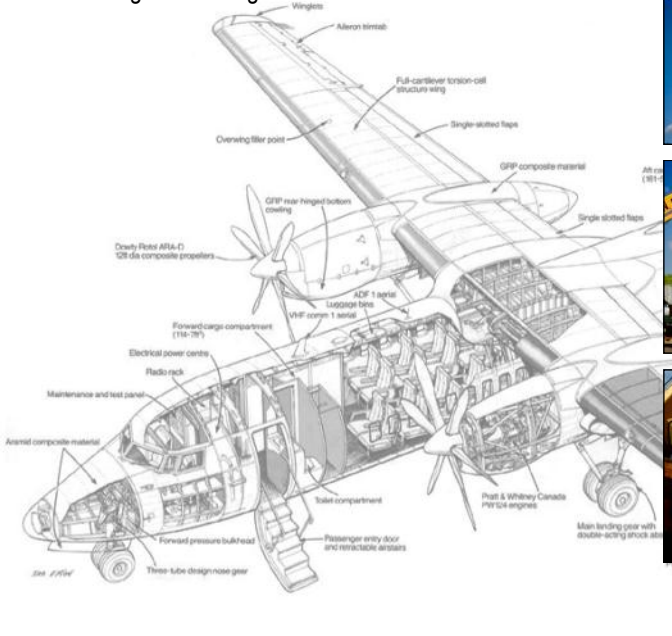
Project: AIRCRAFT's EVACUATION

Project Details

Date	: 2003
Project Name	: Fokker 50 Aircraft
Type	: Aviation
Country	: Spain
Location	: Melilla
Description	: Aircraft's Evacuation
Owner	: Denim Air
Technologist	: Fokker

Project Scope

- Assistance staff.
- Loading & unloading operations.
- Crane and auxiliary machinery.
- Custom's clearance.
- Multimodal transport service from Melilla.
- Long term storage.



Project Brief

A passenger Fokker 50 plane overshot the runway at the Melilla airport in the Spanish enclave of the North African coast while landing on January 2003. The plane was attempting to land after flying from Malaga when it overran the runway and ended up crashing into the airport's perimeter fence next to a highway that surrounds the airport. As of result of the emergency landing, the plane broke in two.

TOTAL was awarded to assist to Fokker staff for the evacuation of the plane with urgency to re-start operations in the airport. Once the plane was dismantled, the parts were loaded onto trucks which were shipped by ferry to the port of Malaga. TOTAL was in charge of the storage of the plane in one of the warehouses owned in Malaga during the development of the crash's investigation, attending to the investigators with the handling of the parts.

Dismantling and evacuation of plane was performed in two days leaving only the memory of happened.

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accuracy

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Project: CEUTA GROUP 11

Project Details

Date	: 2007
Project Name	: Diesel Group 11
Type	: Power Generation
Country	: Spain
Location	: Ceuta
Description	: Port Operations & Maintenance
Owner	: Endesa
Technologist	: MAN

Project Scope

- Port operations.
- Ship's agency.
- Custom's clearance.
- Intermediate long term storage service.
- Maintenance services.
- Implementation of stock control software.
- Inland transportation from facilities to jobsite.
- Logistic management.
- Dismantling and repositioning of obstacles.

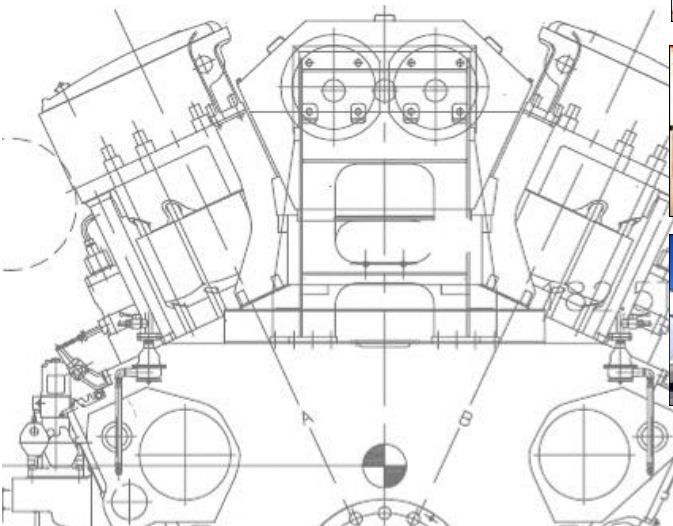
Project Brief

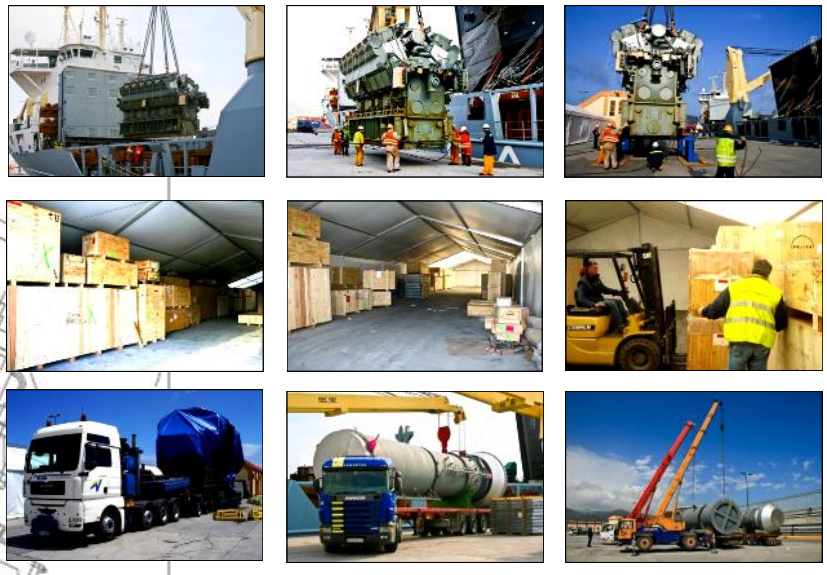
A total of 435 tons with 1.375 cubic meters of equipments and ancillaries was managed by TOTAL in this typical project for our company.

As per requirement of our client, a 400 square meters tent was installed in the port to store undercover the equipments during four months until were required by the jobsite for their assembly. TOTAL was in charge during the storage of the maintenance of the main equipments.

Once required for the assembly, TOTAL was in charge of the transport of all of them from the port to the jobsite. The main diesel engine with a gross weight of 207 tons and 9,15 x 4,75 x 5,60 meters was transported in a modular semi trailer with ten axles after being unloaded in the storage area on beams and stools.

During the storage TOTAL performed comprehensive control of the stocks giving to the prop-





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Project: G10 EVACUATION

Project Details

Date	: 2009
Project Name	: Alternator urgent evacuation.
Type	: Power Generation
Country	: Spain
Location	: Melilla
Description	: Integral Logistic Management
Owner	: Endesa
Technologist	: ALSTOM

Project Brief

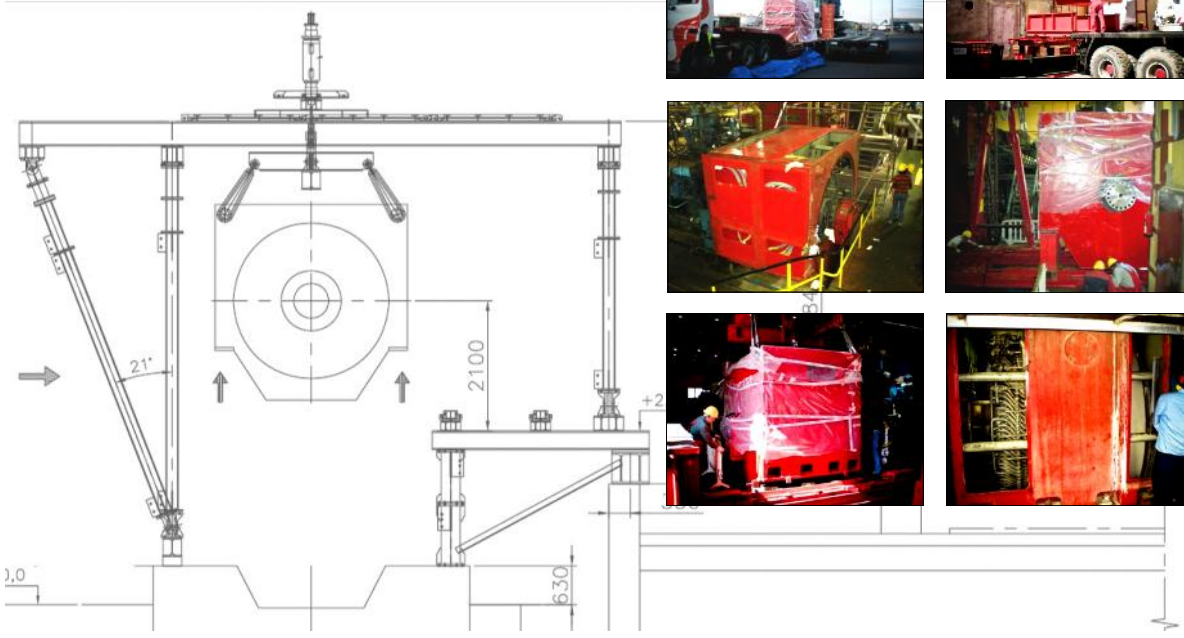
When a power plant needs an urgent service only a company like us has the capacity to manage to all the involved parties for the coordination of all of them to give a reply just in time.

Total was awarded to evacuate top urgently an alternator from the power plant to the work-shop where was repaired and comeback in a record time. A full range service logistic pattern was designed and accomplished to perform the logistic in the minimum time requested by the client.

Our company was in charge of disassembly of alternator, loading and unloading operations and transport service door to door of an alternator of 35 tons.

Project Scope

- Logistic management.
- Door to door transport service.
- Custom's clearance.
- Loading and unloading operations.
- Lifting and placement of equipment.



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Project: CTCC CRISTOBAL COLON

Project Details

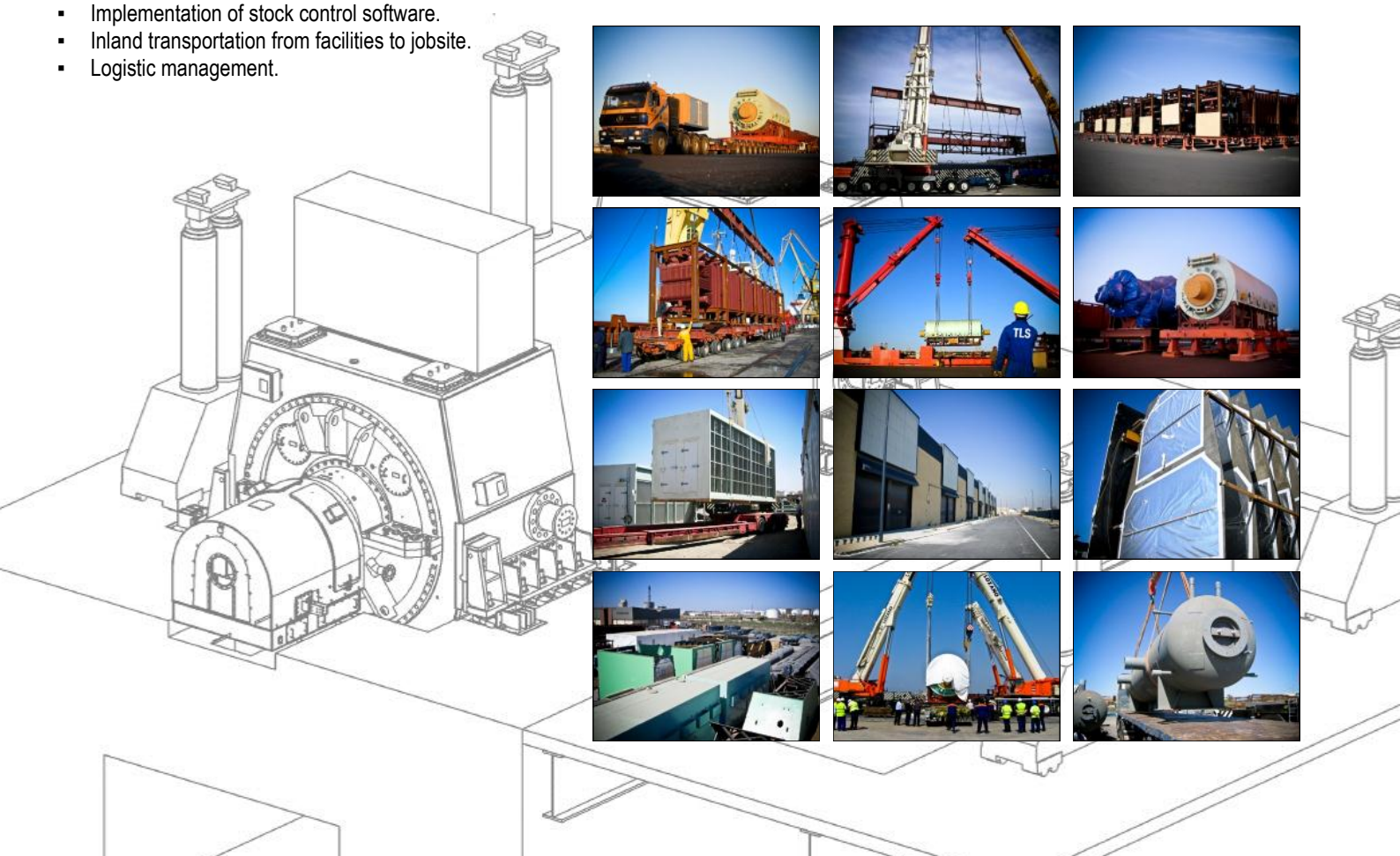
Date	: 2003 to 2006
Project Name	: CTCC Cristobal Colon
Type	: Power Generation
Country	: Spain
Location	: Huelva
Description	: Integral Logistic Management
Owner	: Endesa
Technologist	: Mitsubishi Heavy Industries

Project Brief

At the end of the year 2003 TOTAL was awarded to develop the integral logistic management of a new combined cycle power plant in Huelva. The initial scope of the contract was the design, localization and preparation of the facilities required to receive the equipments for the long term storage according to the requirements of the technologist. TOTAL prepared about 40.000 square meters of facilities and warehouses for the storage of the equipments for 3 years. During the storage, TOTAL was in charge of the maintenance of main equipments (Gas Turbine, Generator and HRSG Tube blocks). Once the storage phase was concluded, TOTAL was in charge also for the transportation of all of them from the temporary storage facilities to the jobsite. For this project, a team of ten specialist of TOTAL were exclusively dedicated in Huelva to perform the project, supported for all divisions of the company in strength contact with the owner and technologist.

Project Scope

- Port operations.
- Intermediate long term storage service.
- Maintenance and repairing services.
- Implementation of stock control software.
- Inland transportation from facilities to jobsite.
- Logistic management.



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Project: HRSG CCC MALAGA

Project Details

Date	: 2008
Project Name	: CCC Málaga
Type	: Power Generation
Country	: Spain
Location	: Málaga
Description	: Long term storage
Owner	: Gas Natural
Technologist	: Alstom

Project Scope

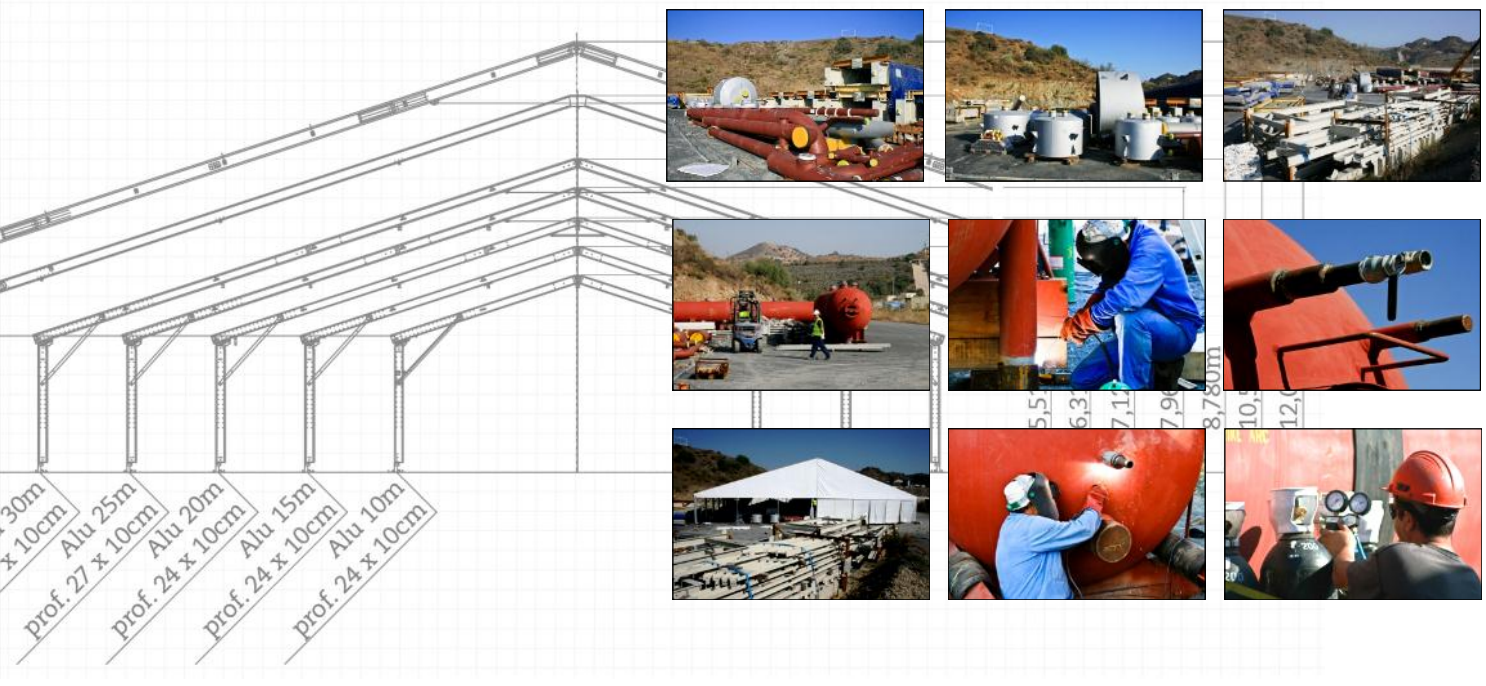
- Relocation of components for storage.
- Installation of temporary covered warehouse.
- Maintenance service.
- Long term storage.

Project Brief

TOTAL was awarded for the long term storage of the main components of the HRSG portion of the combined cycled power plant that ALSTOM was building in the city of Malaga.

TOTAL installed both tents with a total of 1.500 square meters to keep undercover the equipments stored in the intermediary storage area of the jobsite to ensure proper storage and protection of Malaga HRSG components.

Previously to the installation of the tents, TOTAL was in charge of the preparation of the facilities, re-cribbing of equipment, minor repairs to storage frames from handling and to ensure adequate protection from grade and elements. TOTAL provided pipe fitting labour, supervision, tools, materials and consumables to prepare N2 layup system. Vessels prepared: HP, IP, LP Steam Drum and Blowdown Tank.Fabrication of N2 staging area and installation of temporary “gas tight plugs” at each Drum/ Cylinder nozzle included.



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Project: DIESEL GENERATOR SETS

Project Details

Date	: 2004
Project Name	: Diesel Generator Sets Transfer
Type	: Power Generation
Country	: Spain
Location	: Ceuta
Description	: Integrated logistic service
Owner	: Endesa
Technologist	: Aggreko

Project Brief

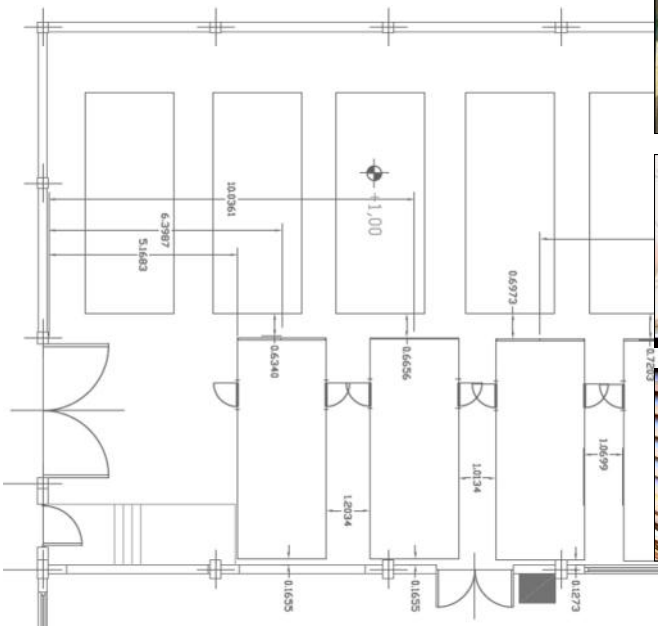
Sometimes, diesel power plants install for emergency or critical situations containerised power modules for auxiliary generation and sometimes TOTAL is in charge of the transfer of these modules from one place to another.

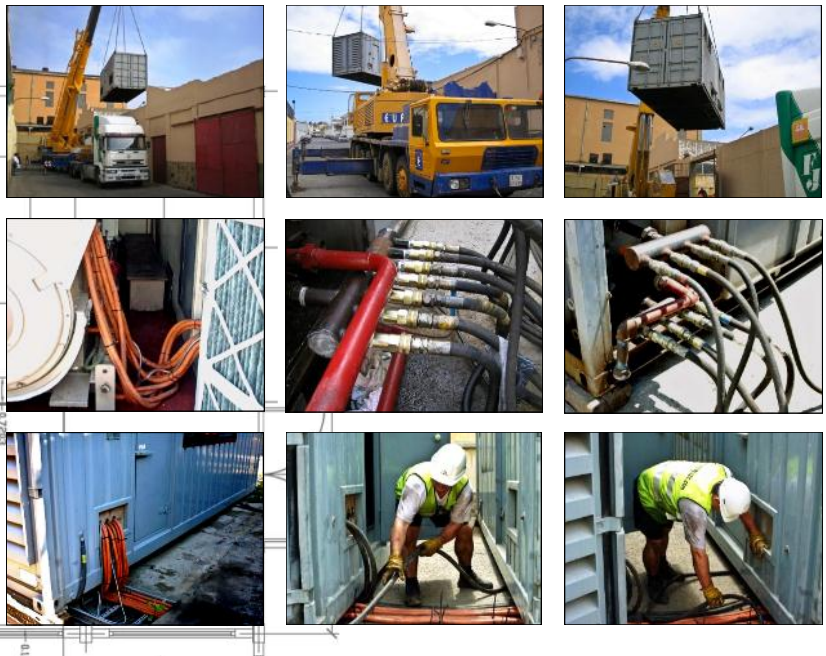
TOTAL performed the loading un unloading operations at both sides, inland transportation, seafreight and custom's clearance of ten units including a transformer and diesel tank.

Beyond the usual scope of our job, the logistic pattern performed for this project had a particular added value. Before to start the transfer of the modules, a team of electrical technicians of our company was in charge of the disconnection of wiring, sockets, exhaust and auxiliaries parts, preparing and packaging all the components for the shipment by sea. Once arrived and discharged the modules in the final destination, the same team was in charge for the connection of all mentioned components again, being ready only for putting into operation.

Project Scope

- Disconnection of wiring and sockets.
- Packaging of ancillaries and parts.
- Loading and unloading operations.
- Multimodal transport service.
- Custom's clearances.
- Sea freight shipment.





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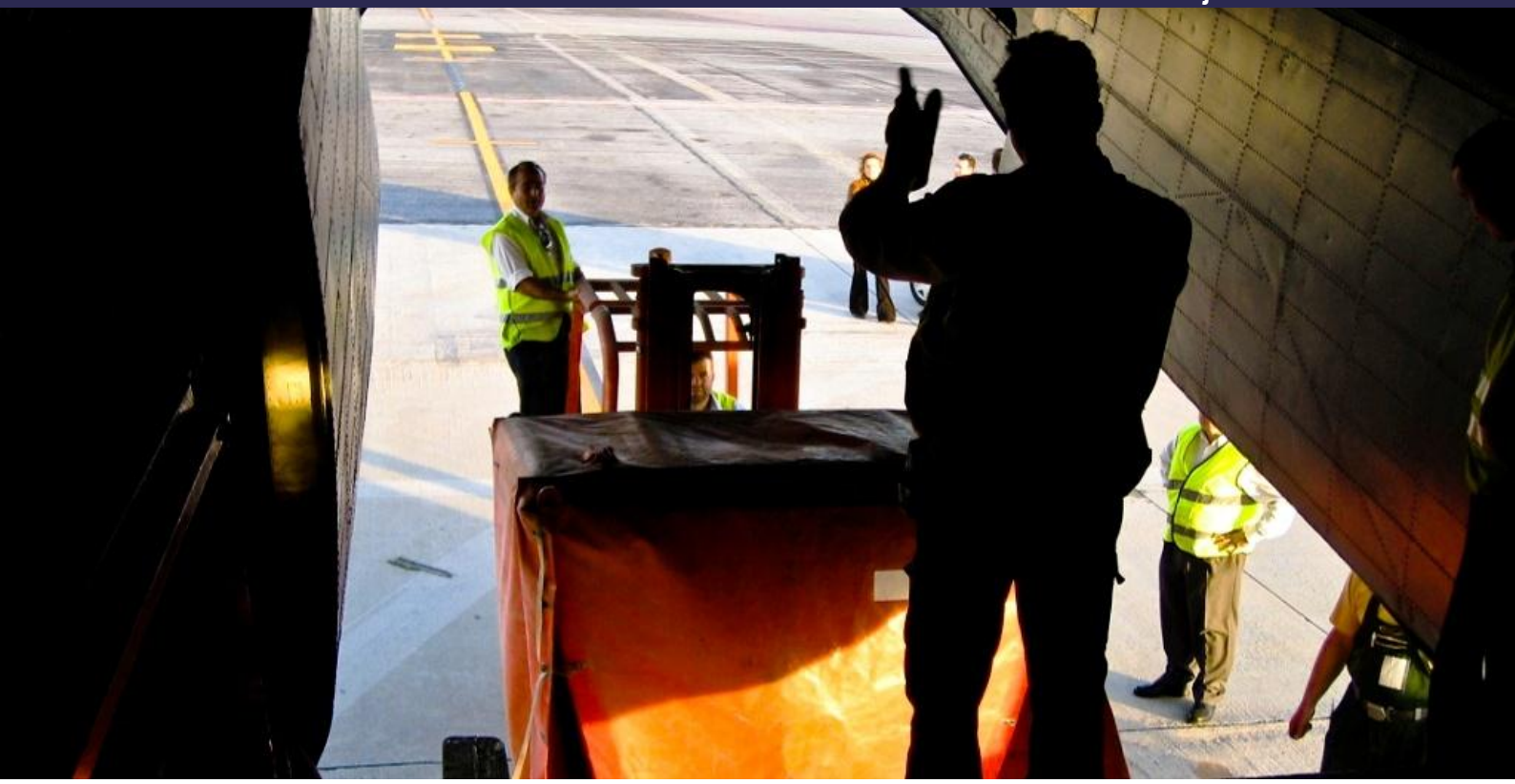
Project: CHARTER FLIGHT



Project Details

Date	: 2005
Project Name	: Strand lift jack system
Type	: General
Country	: Spain
Location	: Malaga
Description	: Charter flight

Project Scope

- Charter flight freight.
- Handling operations.
- Supervision.

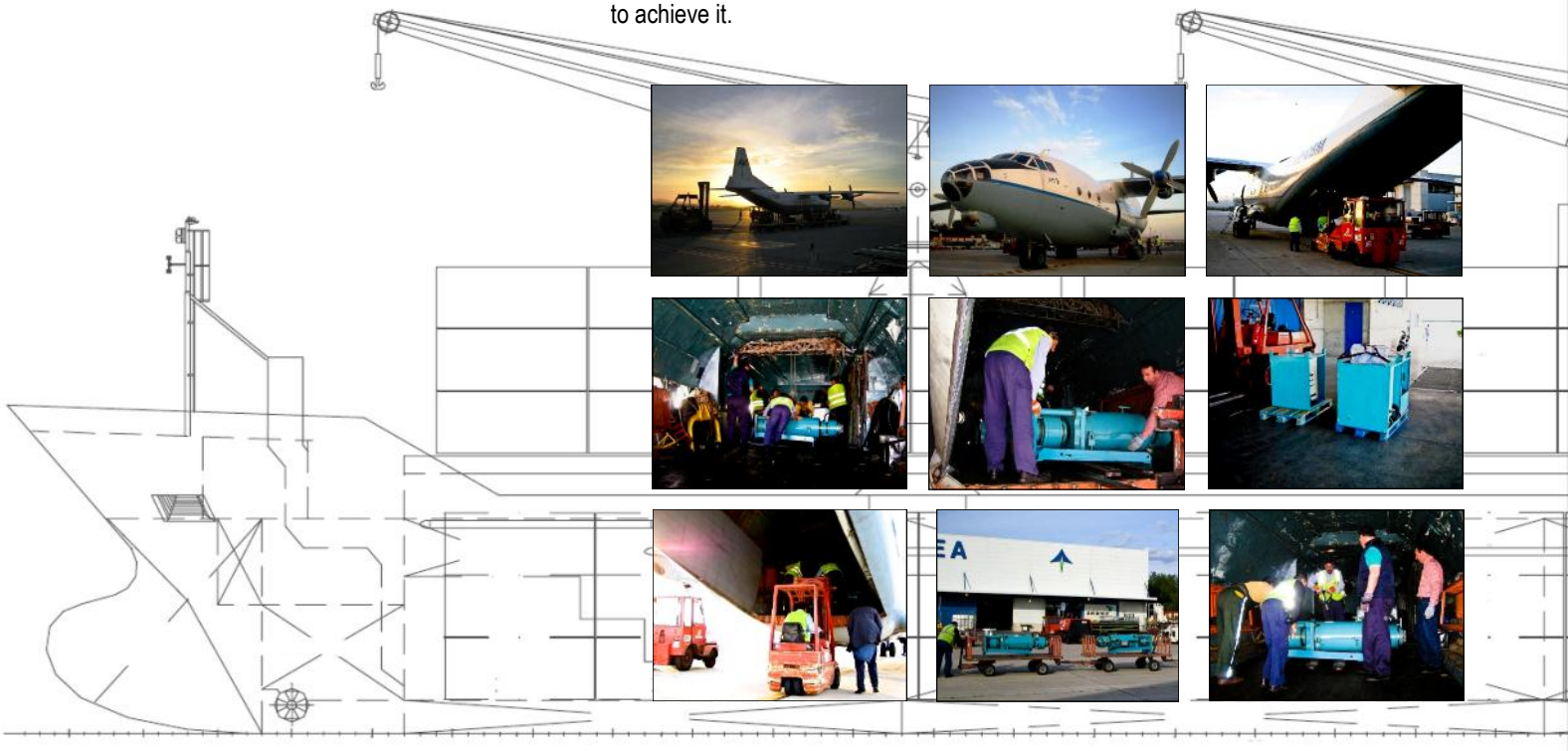
Project Brief

An urgent shipment of equipment to rescue a ship is always a V.I.P. service.

TOTAL was awarded to transport from day to day a strand lift jack system required for the rescue of a cargo ship in Monastir. Due to the urgency of the requested service, TOTAL chartered an Antonov AN-12 Aircraft to load a total of 20 tons of cargo and technicians of the rescue team.

The equipments were transported by road from the base of the owners to the airport of Malaga where stayed until the arrival of the Antonov. Once landed the aircraft, the equipments was loaded and stowed on board in a record time to take off immediately to the final destination.

Our client could achieve his objective arriving at time to perform the job and TOTAL helped to achieve it.



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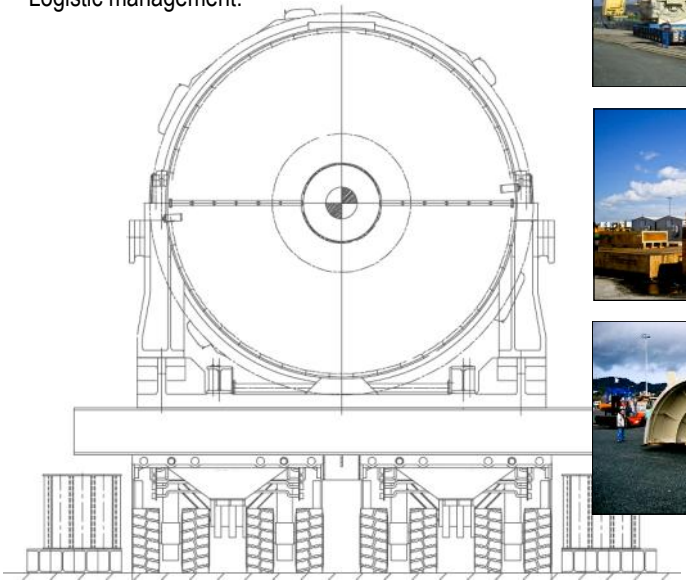
Project: CCC AS PONTES

Project Details

Date	: 2006
Project Name	: CTCC As Pontes
Type	: Power Generation
Country	: Spain
Location	: La Coruña
Description	: Integral logistic management
Owner	: Endesa
Technologist	: GE

Project Scope

- Port operations.
- Ship's agency.
- Custom's clearance.
- Intermediate storage service.
- Maintenance and repairing services.
- Implementation of stock control software.
- Inland transportation from port to jobsite.
- Logistic management.



Project Brief

The logistic of a combined cycled power plant it's always a specialized job with added value.

This added value is the is the specialty of our company which has developed to date the logistic management of five of these combined cycled power plants. We have been in charge of the reception in the port of destination of all equipments, arranging the temporary storage, the inland transportation to the site and the delivery according the assembly sequence.

In this project we managed more than 9.100 tons with more than 31.000 cubic meters of cargoes arrived to the port of El Ferrol in various shipments. The main equipments transported to the jobsite were two gas turbines and two gas generators with an unitary gross weight of 322 and 340 tons respectively. Another of the keys of this project was the temporary storage including the maintenance of the 42 HRSG tubeblocks units and their transport to the jobsite when required to the assembly.

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Project: MENORCA GROUP TG4

Project Details

Date	: 2008
Project Name	: TG Group 4
Type	: Power Generation
Country	: Spain
Location	: Menorca
Description	: Integral Logistic Management
Owner	: Endesa
Technologist	: PWPS

Project Scope

- Port operations.
- Intermediate long term storage service.
- Maintenance service.
- Implementation of stock control software.
- Inland transportation from facilities to jobsite.
- Logistic management.
- Unloading on foundations.

Project Brief

TOTAL was in charge to assist to our client to manage the integral logistic management for a Swift Pack Generator system in the Balearic Islands.

The total of components of the pack was transported by sea from Houston and Baltimore to Menorca in a breakbulk cargo vessel. TOTAL arranged the reception and delivery from port to jobsite including typical activities as port operations, storage, transport, delivery and un-loading onto foundations.

A total of 410 tons with 3.000 cubic meters were managed in this project by our specialized team. The main equipment transported in a eight axles self propelled modular trailer was the Generator with a weight of 90 tons. TOTAL stored all cargoes meanwhile civil works and foundations were concluded. The unloading onto foundations of the main equipments (Diesel Generator, Control House and Electric Generator was also included in our job scope.

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Project: IBIZA GROUP 19

Project Details

Date	: 2007
Project Name	: Diesel Group 19
Type	: Power Generation
Country	: Spain
Location	: Ibiza
Description	: Integral Logistic Management
Owner	: Endesa
Technologist	: MAN

Project Scope

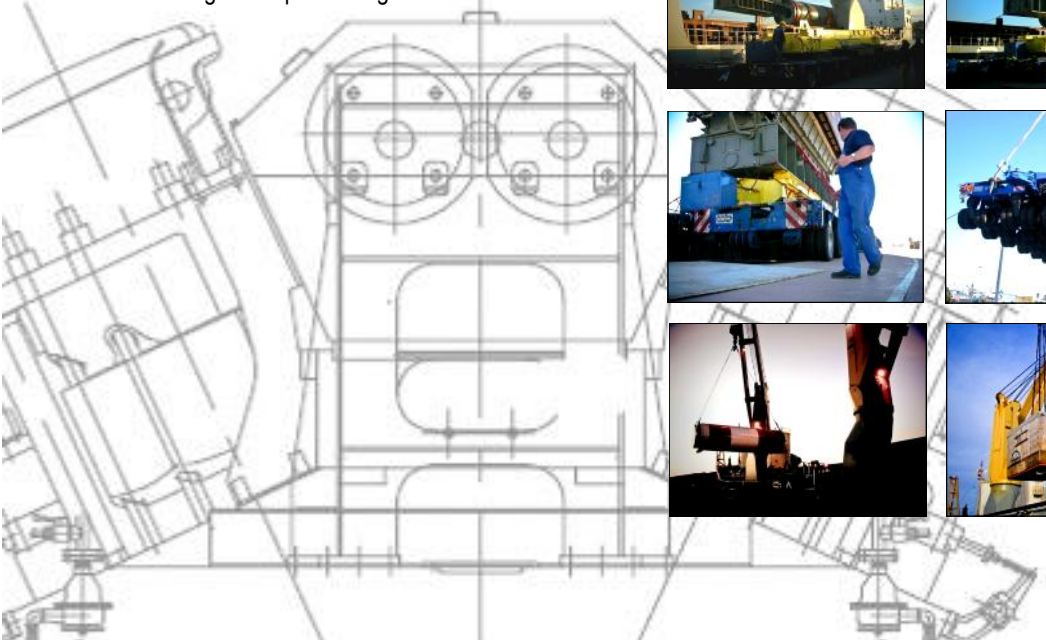
- Port operations.
- Intermediate storage service.
- Maintenance services.
- Inland transportation from port to jobsite.
- Logistic management.
- Dismantling and repositioning of obstacles.

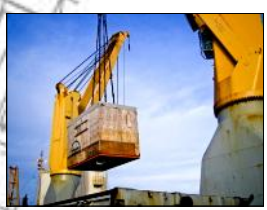
Project Brief

A total of 1.525 tons with 4.000 cubic meters of main equipments and ancillaries was managed by TOTAL in this project performed in the Balearic Islands.

Ibiza was the port where received all the cargoes arrived on two heavylift vessel from origin, being in charge of port operations, clearance coordination, inland transport and delivery of all cargoes. Before to proceed with the transport of the big diesel engine, TOTAL arranged the preparation of the way from the port to the jobsite including the dismantling and repositioning of obstacles in 5 kms

The main equipments transported were a diesel engine with 290 tons and 12,70 m length, 5 m width and 5,40 m high, chimney parts with weights between 24 and 52 tons and dimensions upto 24 m length, and a turbocharger of 25 tons.





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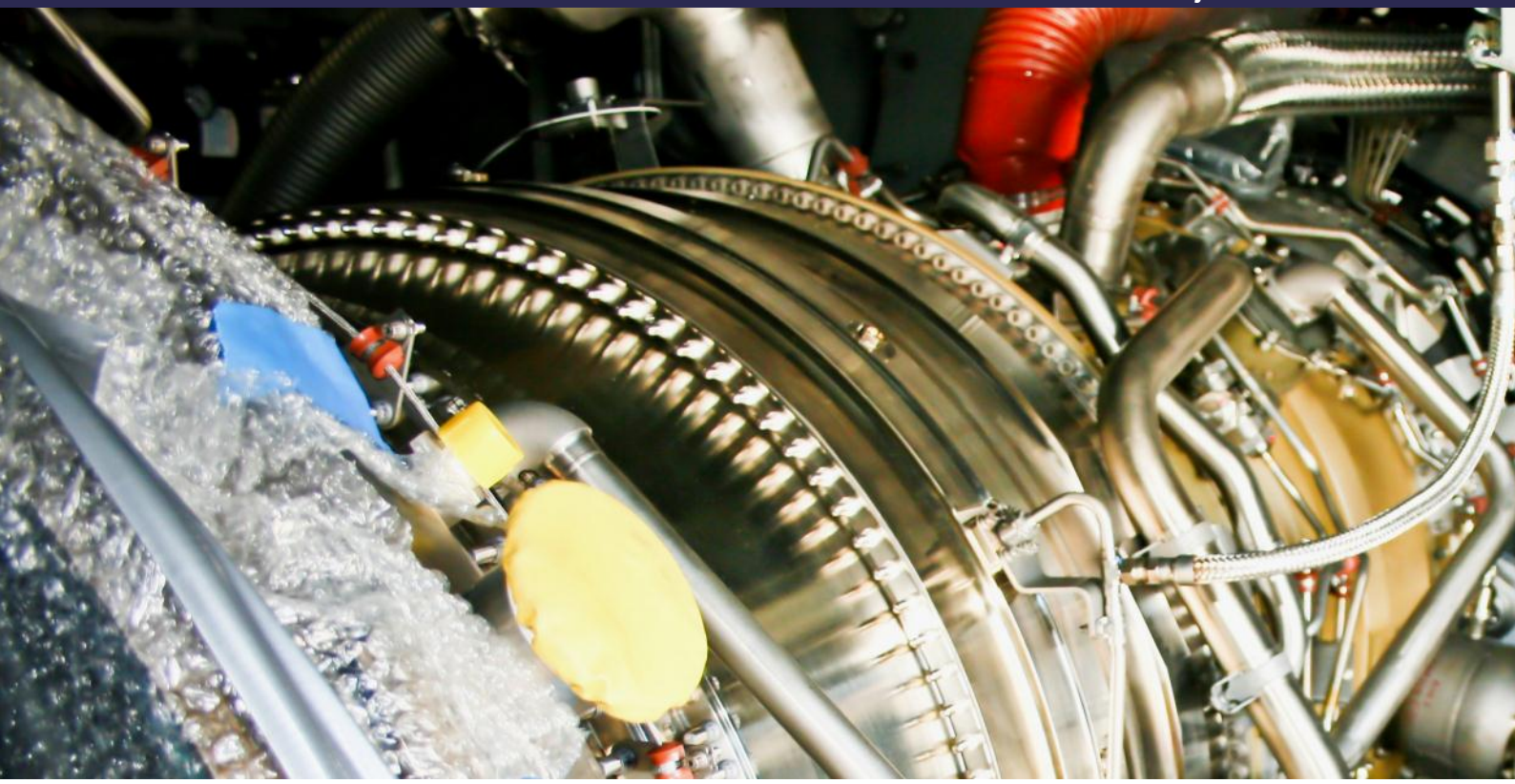
Project: IBIZA GROUP TG6



Project Details

Date	: 2008
Project Name	: TG Group 6
Type	: Power Generation
Country	: Spain
Location	: Ibiza
Description	: Integral Logistic Management
Owner	: Endesa
Technologist	: PWPS

Project Scope

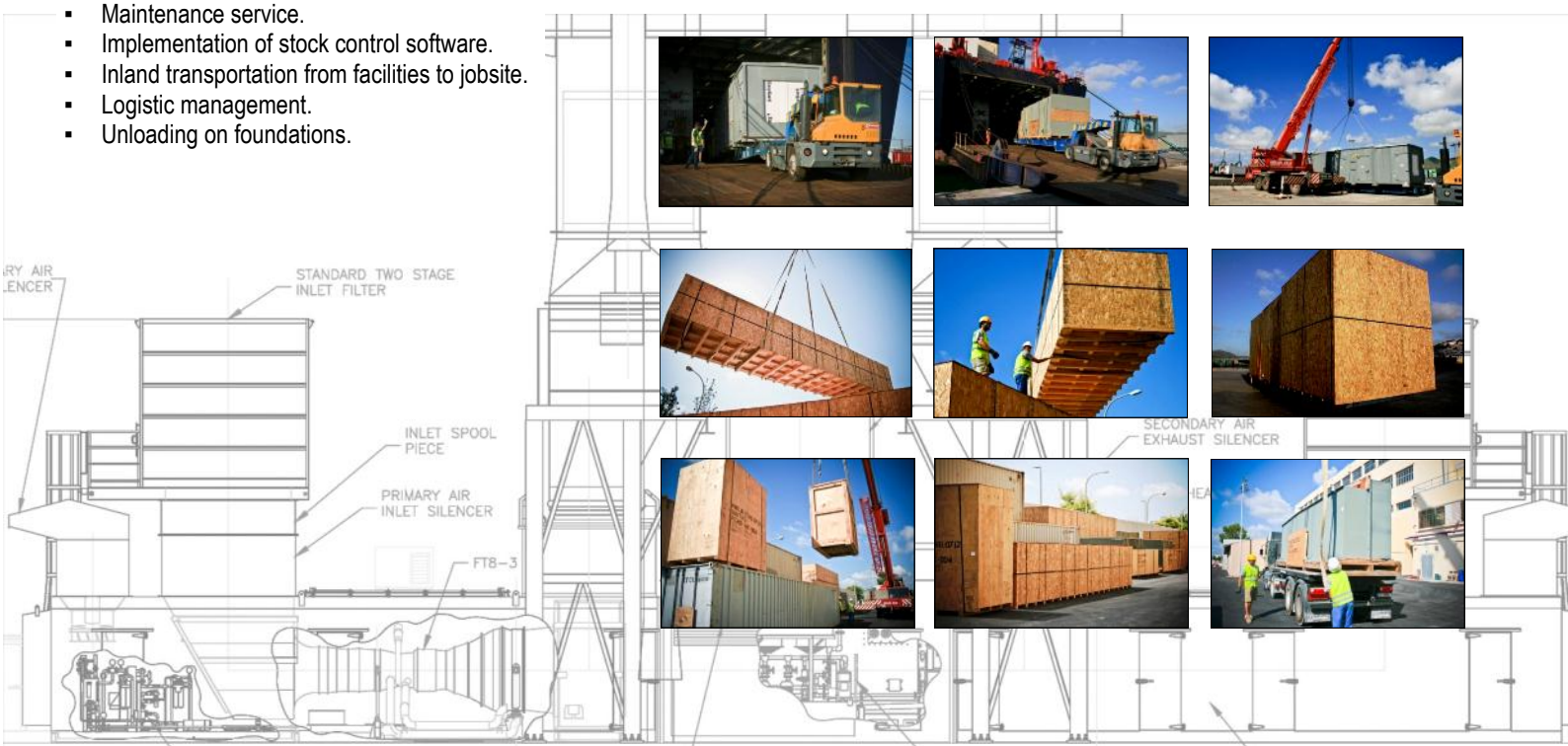
- Port operations.
- Intermediate long term storage service.
- Maintenance service.
- Implementation of stock control software.
- Inland transportation from facilities to jobsite.
- Logistic management.
- Unloading on foundations.

Project Brief

TOTAL was in charge to assist to our client to manage the integral logistic management for a Swift Pack Generator system in the Balearic Islands.

The total of components of the pack was transported by sea from Houston and Baltimore to Ibiza in two shipments. TOTAL arranged the reception and delivery from port to jobsite including typical activities as port operations, storage, transport, delivery and unloading onto foundations.

A total of 350 tons with 1.700 cubic meters were managed in this project by our specialized team. The main equipment transported in a eight axles self-propelled modular trailer was the Generator with a weight of 90 tons. TOTAL stored all cargoes meanwhile civil works and foundations were concluded. The unloading onto foundations of the main equipments (Diesel Generator, Control House and Electric Generator was also included in our job scope.



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Project: CTCC C.COLON

Project Details

Date	: 2004
Project Name	: CTCC Cristobal Colon
Type	: Power Generation
Country	: Spain
Location	: Huelva
Description	: Urgent Maintenance
Owner	: Endesa
Technologist	: Mitsubishi Heavy Industries

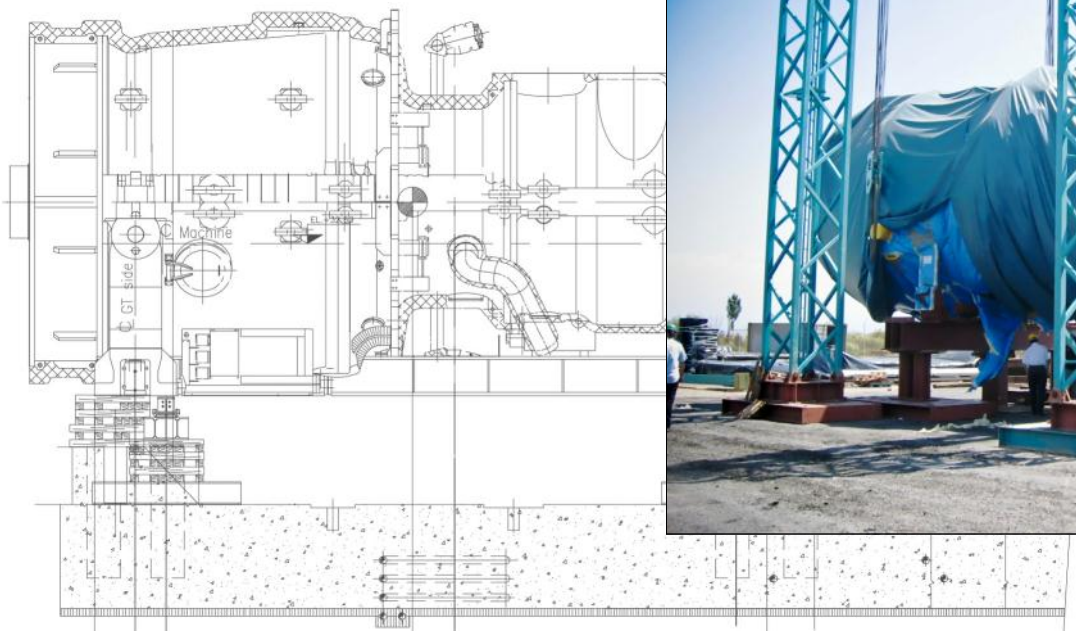
Project Scope

- Assistance staff.
- Loading & unloading operations.
- Crane and auxiliary machinery.

Project Brief

The urgent maintenance of a gas turbine with about 400 tons was one of the service with added value that TOTAL provided to his client.

TOTAL was in charge to load and unload a gas turbine from and onto his support beams during the storage to replace woods beams for rubber sheet according the client's requirements. Tue manoeuvre was performed with total safety and with total satisfaction by the client.



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Project: CCC CATELLON IV

Project Details

Date	: 2006 - 2007
Project Name	: CCC Castellon IV
Type	: Power Generation
Country	: Spain
Location	: Castellón de la Plana
Description	: Integral logistic management
Owner	: Iberdrola
Technologist	: GE

Project Scope

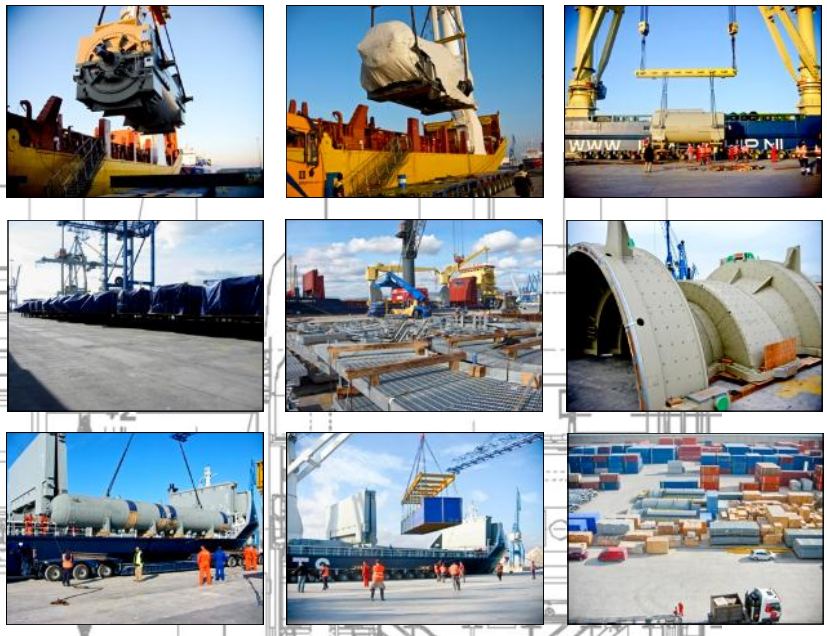
- Port operations.
- Ship's agency.
- Custom's clearance.
- Intermediate long term storage service.
- Maintenance and repairing services.
- Implementation of stock control software.
- Inland transportation from port to jobsite.
- Logistic management.

Project Brief

The 850 MW of Castellon 4 Combined Cycled Power Plant has enjoyed the logistic management of our company and the job of our specialized team.

One more time, TOTAL was in charge of the reception in the port of destination of all the equipments, arranging the temporary storage, the inland transportation to the site and the delivery according the assembly sequence. Some maintenances were arranged also during the storage of the equipments.

In this project we managed more than 11.000 tons of cargoes arrived to the port of Castellon in various vessels and several shipments arrived by air to the Madrid Airport. The main equipments transported to the jobsite were two gas turbines and three gas generators with an unitary gross weight of 300 and 305 tons respectively. Another of the keys of this project was the temporary storage including the maintenance of the HRSG tubeblocks and their transport to the jobsite when required to the assembly, cargoes with a mid weight of 140 tons each one..



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Project: CCC CATELLON IV - TRANSFORMERS

Project Details

Date	: 2007
Project Name	: CCC Castellon IV
Type	: Power Distribution
Country	: Spain
Location	: Castellón de la Plana
Description	: Integral logistic management
Owner	: Iberdrola
Technologist	: ABB

Project Brief

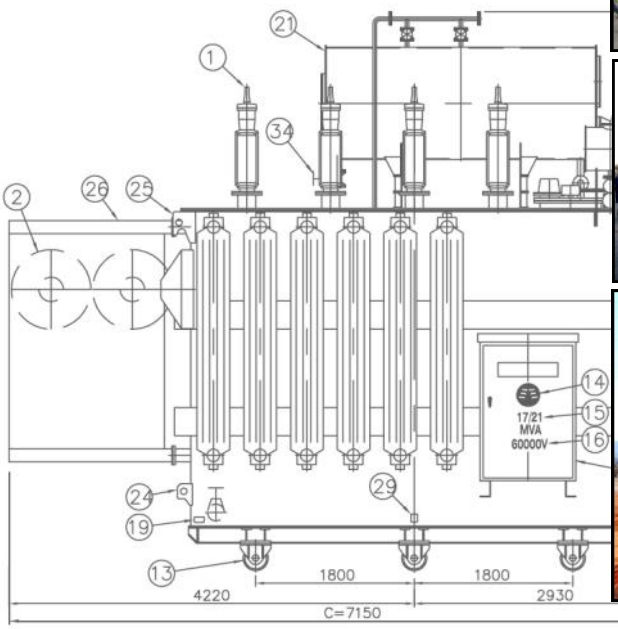
The 3 main transformers of the Combined Cycled Power Plant of Castellon 4 were delivered to TOTAL in FCA terms in the port of loading by the manufacturer.

TOTAL was in charge to arrange from the port of origin the transport and delivery to the jobsite including unloading operations onto foundations. The freightment of vessel, port operations, transport from port to the jobsite and unloading onto foundations were the jobs performed to the client with 3 transformers units of 210 tons each one.

A job performed as always as per required by the client: just in time!

Project Scope

- Port operations.
- Ship's agency.
- Sea freighment.
- Inland transportation from port to jobsite.
- Unloading on foundations of transformers.



totalproject

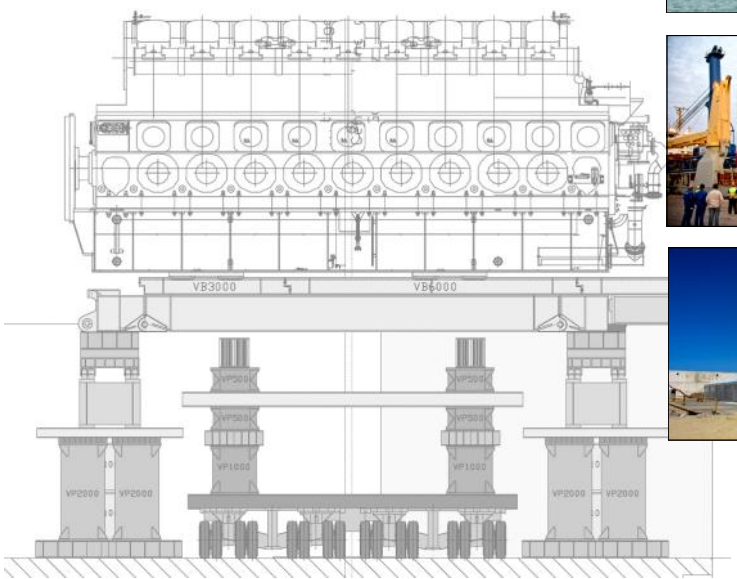
Project: MELILLA GROUP 12

Project Details

Date	: 2006
Project Name	: Diesel Group 12
Type	: Power Generation
Country	: Spain
Location	: Melilla
Description	: Integral Logistic Management
Owner	: Endesa
Technologist	: MAN

Project Scope

- Port operations.
- Ship's agency.
- Custom's clearance.
- Intermediate long term storage service.
- Inland transportation from port to jobsite.
- Logistic management.
- Dismantling and repositioning of obstacles.

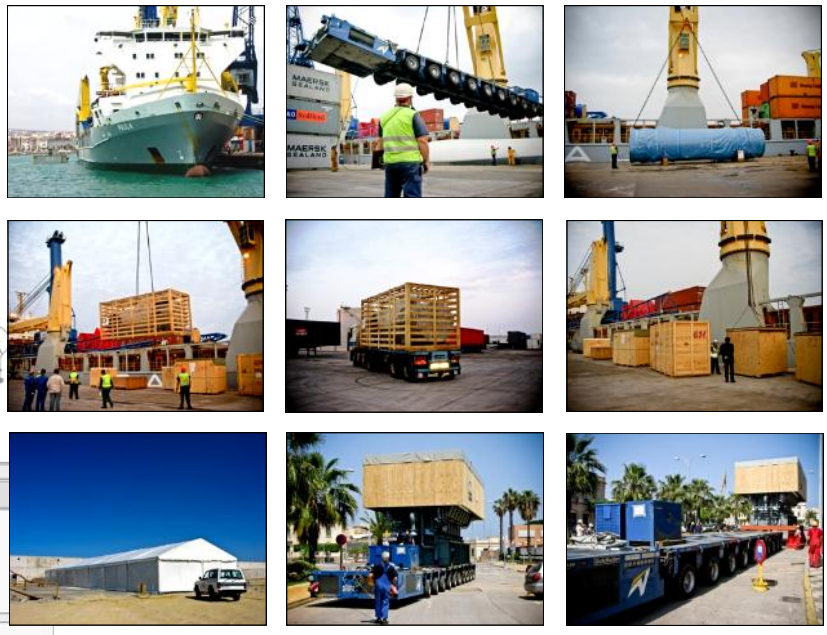


Project Brief

A total of 430 tons with 1.375 cubic meters of equipments and ancillaries was managed by TOTAL in this typical project for our company.

As per requirement of our client, a 400 square meters tent was installed in the port to store undercover the equipments during four months until were required by the jobsite for their assembly. TOTAL was in charge during the storage of the maintenance of the main equipments.

Once required for the assembly, TOTAL was in charge of the transport of all of them from the port to the jobsite. The main diesel engine with a gross weight of 207 tons and 9,15 x 4,75 x 5,60 meters was transported in a modular semi trailer with ten axles after being unloaded in the storage area on beams and stools. During the storage TOTAL performed comprehensive control of the stocks giving to the property punctual information about it.



totalproject

Project: CCC MALAGA

Project Details

Date	: 2008
Project Name	: CCC Málaga
Type	: Power Generation
Country	: Spain
Location	: Málaga
Description	: Port Operations
Owner	: Gas Natural
Technologist	: Alstom

Project Scope

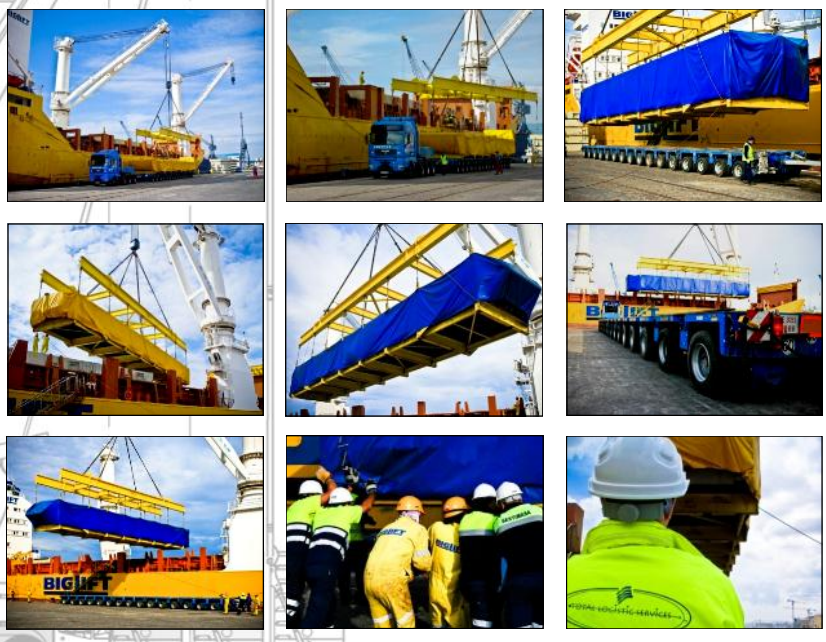
- Port operations.
- Custom's clearance.
- Intermediate storage service.

Project Brief

The sunny port of Malaga was the scenery for the arrival of the HRSG portion of the Combined Cycled Power Plant was started to be built in 2008.

TOTAL was awarded to coordinate the arrival of ten HRSG tubeblocks units in this port, performing the unloading and transfer to a second area where stayed stored until were transported to the jobsite. A modular semi-trailer with 16 axles was used to transport the modules from under hook of the vessel to the storage area of 10.000 square meters arranged by TOTAL as accordingly.

The weights of the HRSG modules ranged from 138 to 200 tons. The mid dimensions of equipments was 25 meters length, 4 meters width and 3 meters high. The self-unloading of the modules in the storage area was done by the modular semi-trailer onto beams and tools.



totalproject

Project: CCC MALAGA

Project Details

Date	: 2008
Project Name	: CCC Málaga
Type	: Power Generation
Country	: Spain
Location	: Málaga
Description	: Auxiliary Logistic Transport
Owner	: Gas Natural
Technologist	: Alstom

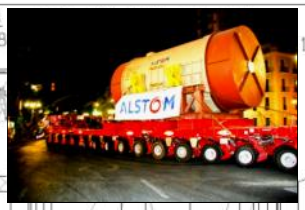
Project Brief

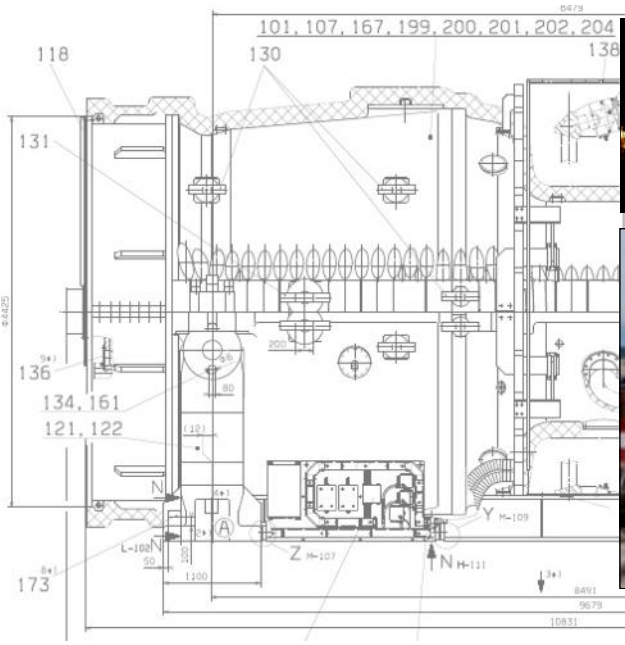
The company in charge of the transport of the turbine portion of the Combined Cycled Power Plant of Malaga required an auxiliary logistic to perform it with exit from the port to the jobsite.

The long distance and difficulty of the transport required an intermediary step where main equipments made a stop to change the transport's configuration. TOTAL was awarded to assist to transporters to organize the transport of the auxiliary systems needed for this heavy cargoes, the installation of jumping beams over a bridge and the arrangements of the intermediary area where gas turbine, gas generator and transformers were temporary stored.

Project Scope

- Intermediate storage service.
- Auxiliary logistic management.





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our clients

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Project: GAS PLANT

Project Details

Date	: 2000
Project Name	: Gas Plant
Type	: Gas
Country	: Spain
Location	: Melilla
Description	: Port Operations
Owner	: CEPSA
Technologist	: A.Silva

Project Brief

TOTAL was in charge of the logistic management of the new tanks of the modern butane gas plant built by our client on last 2000 year. The illusion and dedication offered to our clients during the performance of this project as one of the first, still nowadays as core value of our job and the mission statement of our company.

The seven tanks unloaded with a gross weight 182 tons had a unitary dimensions of 23 meters length, 4 meters of diameter and a capacity for 210 cubic meters each one. Once discharged the tanks in the port, the same were transported to the jobsite to be unloaded onto foundations. Port operations were worked by a staff of 15 specialized men in two hours and a half.

Project Scope

- Port operations.
- Ship's agency.
- Custom's clearance.
- Intermediate storage service.
- Inland transportation from port to jobsite.

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Project: JET A1 STATION

Project Details

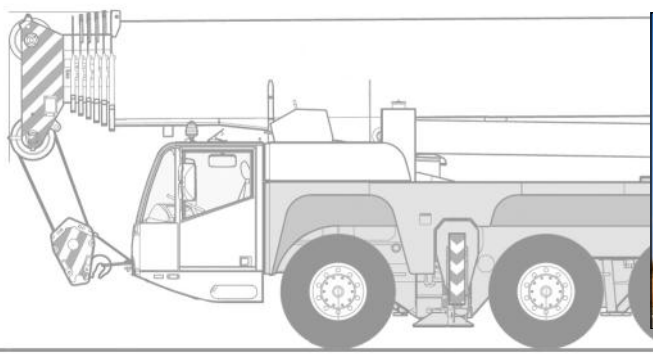
Date	: 2003
Project Name	: JET A1 Airport Station
Type	: Oil
Country	: Spain
Location	: Melilla
Description	: Integral Logistic Service
Owner	: CEPSA
Technologist	: N/A

Project Scope

- Intermodal door to door transport service.
- Port operations.
- Sea freightment.
- Ship's agency.
- Custom's clearance.
- Logistic management.

Project Brief

TOTAL was in charge of the transfer of a JET A1 Fuel Airport Station from the Canary Islands to the Airport of Melilla, a little Spanish city in the north of Morocco. TOTAL arranged the shipment of the main tank of 150.000 litres of capacity in a flat rack container and the rest of auxiliaries and 7 cistern trailers by road from origin to destination.



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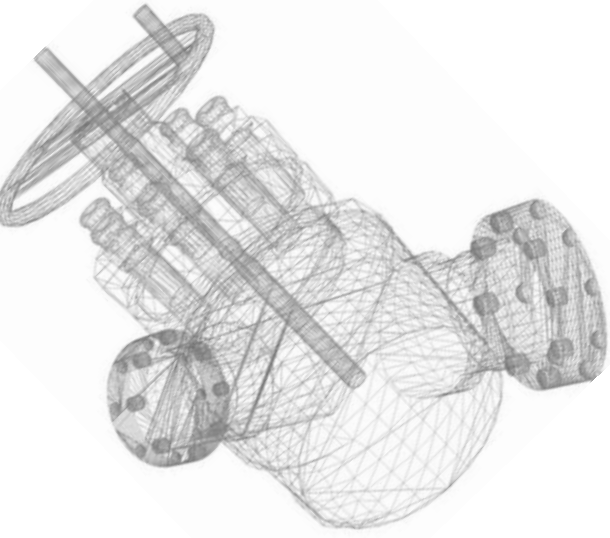
Project: CEUTA GROUP 10

Project Details

Date	: 2004
Project Name	: Diesel Group 10
Type	: Power Generation
Country	: Spain
Location	: Ceuta
Description	: Port Operations & Maintenance
Owner	: Endesa
Technologist	: MAN

Project Scope

- Port operations.
- Ship's agency.
- Custom's clearance.
- Intermediate long term storage service.
- Maintenance and repairing services.
- Implementation of stock control software.
- Inland transportation from facilities to jobsite.
- Logistic management.



Project Brief

When clients have problems of space in jobsite to store equipments during the project, it's time to call to TOTAL to get a specialized support with the added value of the know-how and the experience obtained for so long time.

TOTAL was called in this occasion to minimize the storage area of this new diesel group meanwhile were required by the jobsite, installing plastic tarps to avoid the inclement weather, and performing the maintenances required by the manufacturer and the property for the long term storage.

Once required, all equipments were transported to the jobsite.

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Project: IBIZA GROUP TG5

Project Details

Date	: 2008
Project Name	: TG Group 5
Type	: Power Generation
Country	: Spain
Location	: Ibiza
Description	: Integral Logistic Management
Owner	: Endesa
Technologist	: PWPS

Project Scope

- Port operations.
- Intermediate long term storage service.
- Maintenance.
- Implementation of stock control software.
- Inland transportation from facilities to jobsite.
- Logistic management.
- Unloading on foundations of main units.

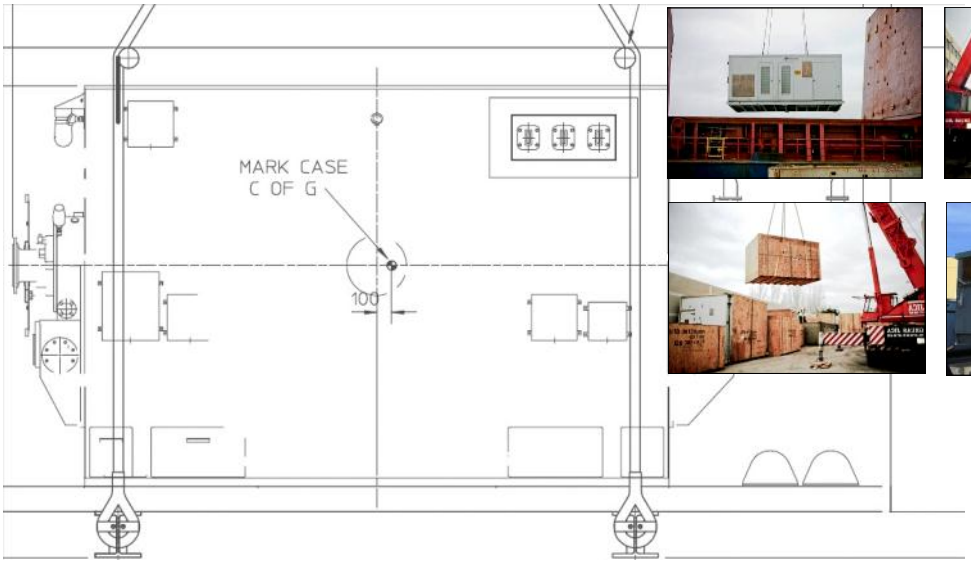
Project Brief

TOTAL was in charge one more time to assist to our client to manage the integral logistic management for a Swift Pack Generator system in the Balearic Islands.

The total of components of the pack was transported by sea from Houston to Ibiza where TOTAL arranged the reception and delivery from port to jobsite including typical activities as agency, port operations, storage, transport, delivery and unloading onto foundations.

A total of 325 tons with 1.900 cubic meters were managed in this project by our specialized team. The main equipment transported in a eight axles self-propelled modular trailer was the Generator with a weight of 90 tons.

TOTAL stored all cargoes meanwhile civil works and foundations were concluded.



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solutions with
capacity

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Project: CEUTA GROUP TG12

Project Details

Date	: 2008 - 2009
Project Name	: TG Group 12
Type	: Power Generation
Country	: Spain
Location	: Ceuta
Description	: Port Operations & Maintenance
Owner	: Endesa
Technologist	: Turbomach

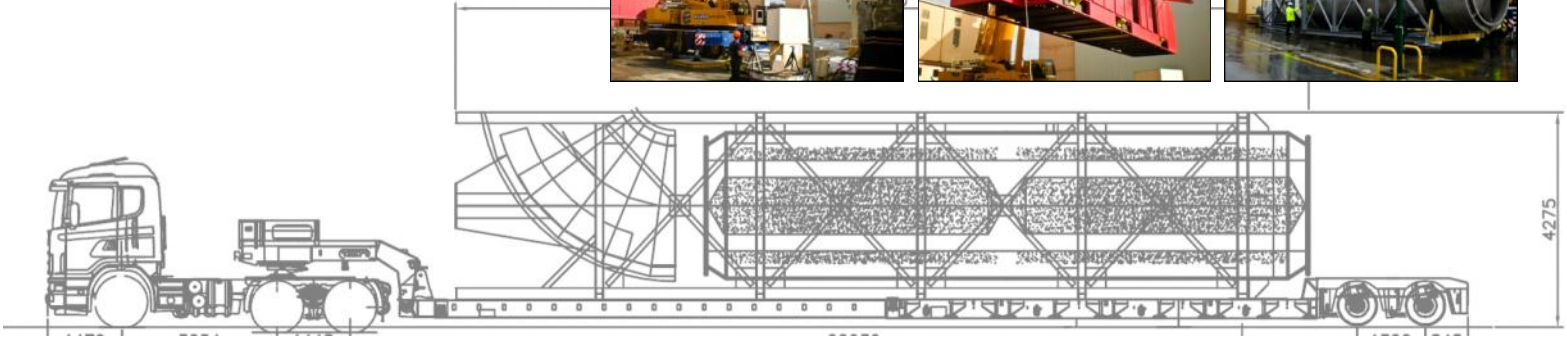
Project Scope

- Port operations.
- Ship's agency.
- Custom's clearance.
- Intermediate long term storage service.
- Inland transportation from factory to jobsite.
- Logistic management.

Project Brief

For this project TOTAL was in charge of the service door to door of the equipments manufactured by the technologist in several origins. This multimodal service including transport by road and sea including a total of 250 tons of main components and auxiliaries.

The difficulty of the job was the transport from the port of destination of the equipments to the jobsites due to the oversized cargoes to be transported and the narrowness of the streets where inland heavy haulage was performed. The oversized parts of the chimney with a unitary weight of 26 tons and 204 cubic meters of volume was performed with a self propelled modular semi-trailer with 8 axles without problems or interferences. The gas turbine package with 76 tons of gross weight was transported in the same vehicle with the same result.



totalproject

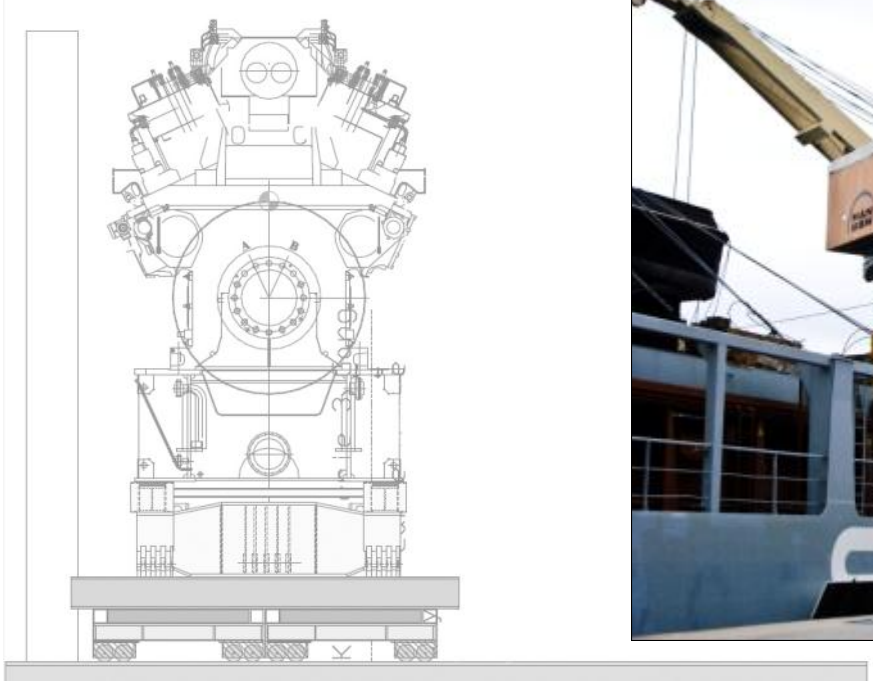
Project: IBIZA GROUP 20

Project Details

Date	: 2007
Project Name	: Diesel Group 20
Type	: Power Generation
Country	: Spain
Location	: Ibiza
Description	: Integral Logistic Management
Owner	: Endesa
Technologist	: MAN

Project Scope

- Port operations.
- Inland transportation from facilities to jobsite.
- Logistic management.
- Dismantling and repositioning of obstacles.



Project Brief

A total of 400 tons of equipments and ancillaries was managed by TOTAL in the second phase of this project performed in a power plant in Ibiza.

Before to proceed with the transport of the big diesel engine, TOTAL arranged the preparation of the way from the port to the jobsite including the dismantling and repositioning of obstacles in 5 kms, coordinating with all involved local authorities, subcontractors and owner.

The main equipment transported was a diesel engine with 290 tons and 12,70 m length, 5 m width and 5,40 m high. For transportation a parallel combined self propelled heavy lift trailer in modular design was used with a configuration of 2 x 10 axles.

The engine was unloaded from the heavylift vessel on the mechanical support placed on trailer especially developed for the sliding and shifting of the engine. Total configuration of transport about 430 tons, 6,5 m width and 10 m high.

totalproject

Project: MENORCA GROUP TG5

Project Details

Date	: 2009
Project Name	: TG Group 5
Type	: Power Generation
Country	: Spain
Location	: Menorca
Description	: Integral Logistic Management
Owner	: Endesa
Technologist	: PWPS

Project Scope

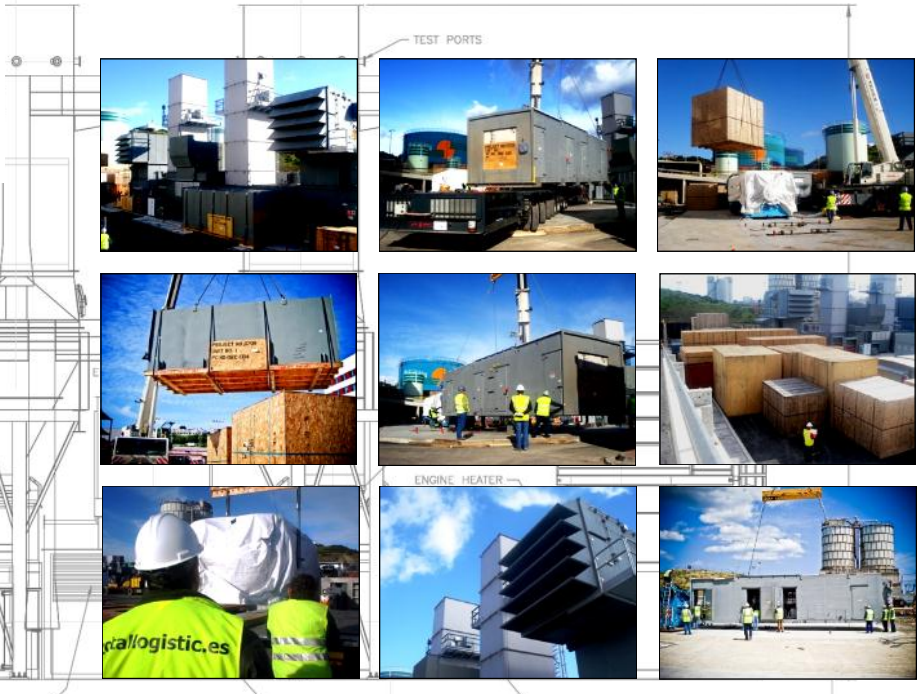
- Port operations.
- Intermediate long term storage service.
- Maintenance service.
- Implementation of stock control software.
- Inland transportation from facilities to jobsite.
- Logistic management.
- Unloading on foundations.

Project Brief

TOTAL was in charge to assist to our client to manage the integral logistic management for a Swift Pack Generator system in the Balearic Islands.

The total of components of the pack was transported by sea from Houston and Baltimore to Menorca in a breakbulk cargo vessel. TOTAL arranged the reception and delivery from port to jobsite including typical activities as port operations, storage, transport, delivery and un-loading onto foundations.

A total of 410 tons with 3.000 cubic meters were managed in this project by our specialized team. The main equipment transported in a eight axles self propelled modular trailer was the Generator with a weight of 90 tons. TOTAL stored all cargoes meanwhile civil works and foundations were concluded. The unloading onto foundations of the main equipments (Diesel Generator, Control House and Electric Generator was also included in our job scope.



totalproject

Project: MELILLA GROUP 11

Project Details

Date	: 2000
Project Name	: Diesel Group 11
Type	: Power Generation
Country	: Spain
Location	: Melilla
Description	: Integral Logistic Management
Owner	: Endesa
Technologist	: MAN

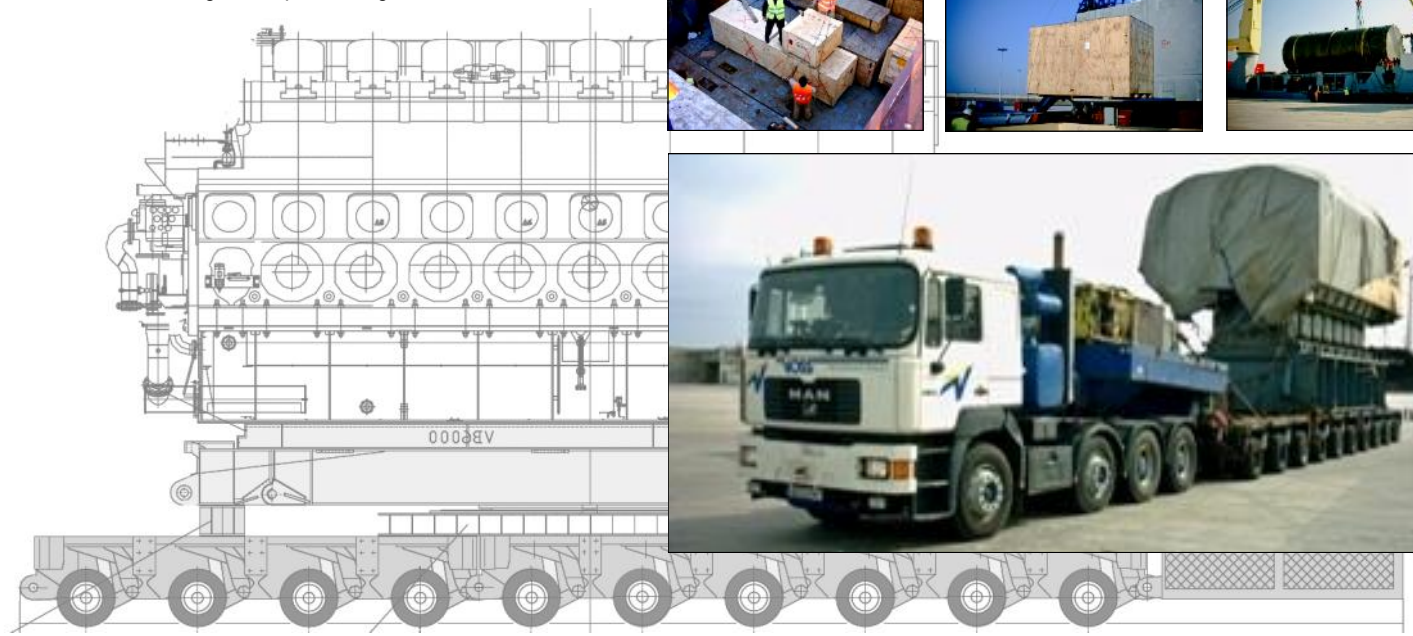
Project Brief

A total of 430 tons with 1.400 cubic meters of equipments and ancillaries was managed by TOTAL in this project performed in Melilla.

TOTAL was in charge of the transport of the cargoes from the port to the jobsite. The main diesel engine with a gross weight of 207 tons and 9,15 x 4,75 x 5,60 meters was transported in a modular semi trailer with ten axles During the storage TOTAL performed comprehensive control of the stocks giving to the property punctual information about it.

Project Scope

- Port operations.
- Ship's agency.
- Custom's Clearance.
- Inland transportation from facilities to jobsite.
- Logistic management.
- Dismantling and repositioning of obstacles.



work in
the **shade**
with a
brilliant
result

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Project: MELILLA GROUP 13

Project Details

Date	: 2007
Project Name	: Diesel Group 13
Type	: Power Generation
Country	: Spain
Location	: Melilla
Description	: Integral Logistic Management
Owner	: Endesa
Technologist	: MAN

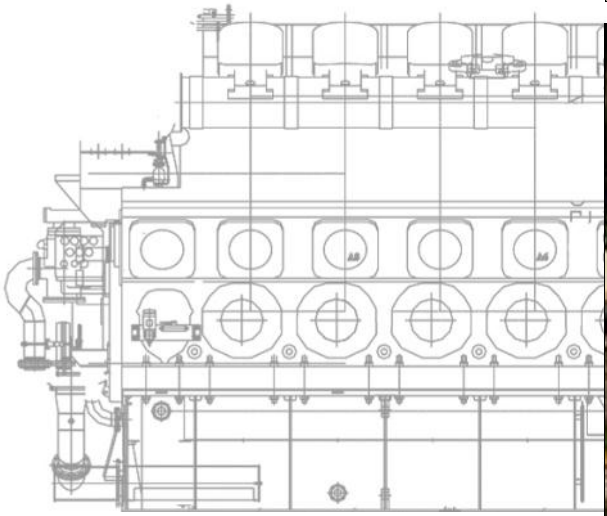
Project Scope

- Port operations.
- Ship's agency.
- Custom's clearance.
- Inland transportation from port to jobsite.
- Logistic management.
- Dismantling and repositioning of obstacles.

Project Brief

A total of 236 tons of equipments and ancillaries was managed by TOTAL in this project performed in Melilla.

TOTAL was in charge of the transport of the cargoes from the port to the jobsite. The main diesel engine with a gross weight of 207 tons and 9,15 x 4,75 x 5,60 meters was transported in a modular semi trailer with ten axles.



totalproject

Project: TEMPORARY POWER FACILITIES

Project Details

Date	: 2005
Project Name	: TG Group 5
Type	: Power Generation
Country	: Spain
Location	: Malaga
Description	: Integral Logistic Management
Owner	: CAT Energyst
Technologist	: GE Energy

Project Brief

TOTAL was called by our client to manage the logistic of a lot of containerised power modules for auxiliary generation in three different jobsites in the south of Spain.

The fifty units managed in this project including transformers and diesel tanks was transported from several locations in EU as Barcelona, Madrid, Rotterdam and Le Havre.

Beyond the usual scope of our job, the logistic pattern performed for this project had a particular added value. Before to start the transport and unloading of the modules, our company was in charge of the preparation of the facilities compacting the existing ground to get a regular level of the same.

Project Scope

- Port operations.
- Ground facilities preparation.
- Handling and positioning.
- Inland transportation from door to jobsite.
- Logistic management.

totalproject

Project: SIL LADA 4

Project Details

Date	: 2008
Project Name	: SIL Lada 4 Project
Type	: Power Generation
Country	: Spain
Location	: La Felguera
Description	: Integral Logistic Management
Owner	: Iberdrola
Technologist	: Mitsubishi Heavy Industries

Project Brief

Total was in charge of the logistic management of the SIL Lada 4 Project. This project was the construction of a desulfurization plant in the Lada power plant.

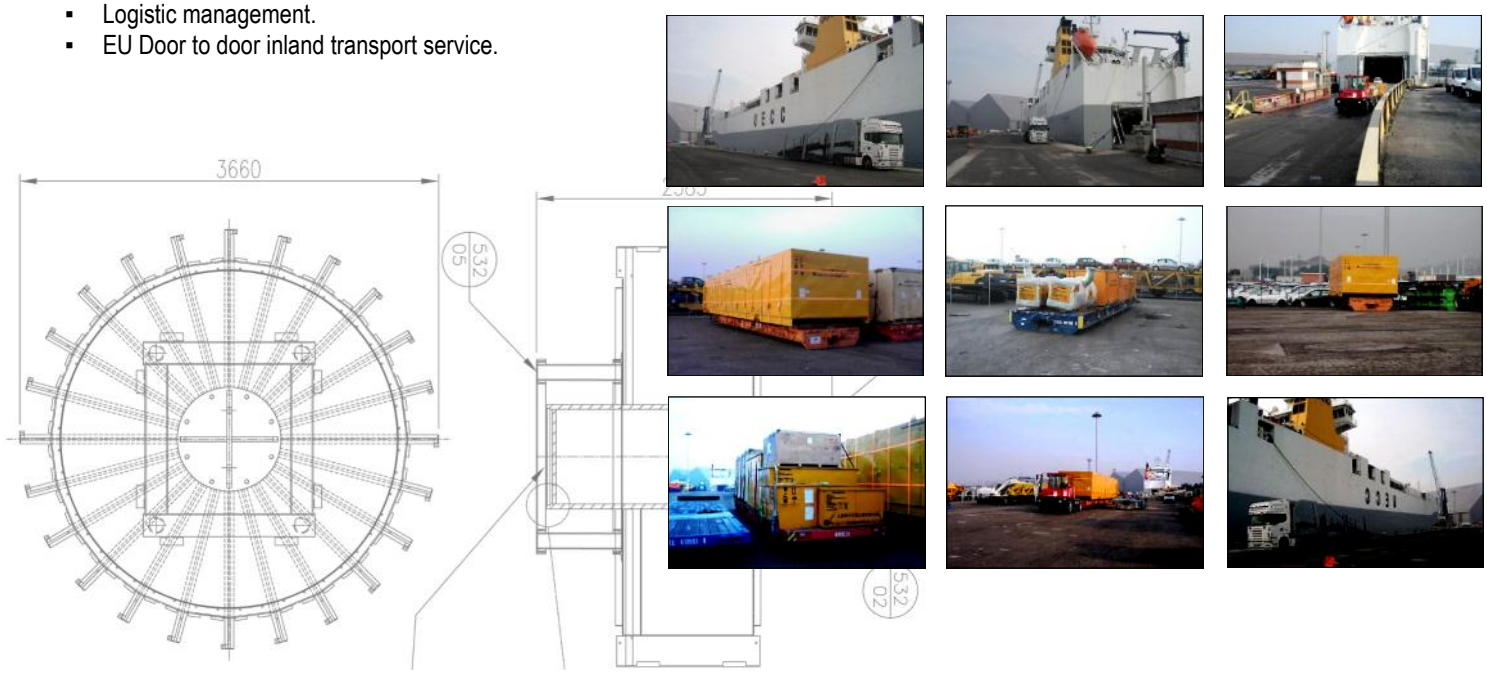
A total 290 tons with 2.300 cubic meters were managed by us. A breakbulk carrier transported main equipments from Thailand to the port of Gijon.

The main target of this project was the inland transportation from Poland, Hungary, Rumania and UK of the oversized components of the project by road from the different factories to the jobsite according the assembly sequence requirements.

Custom's clearance and payment of duties were included in the scope of our service contract.

Project Scope

- Port operations.
- Ship's agency.
- Custom's clearance.
- Inland transportation from port to jobsite.
- Logistic management.
- EU Door to door inland transport service.



totalproject

Project: SOLAR CAT

Project Details

Date	: 2007
Project Name	: TG Group 5
Type	: Ship Building
Country	: Spain
Location	: Cádiz
Description	: Integral Logistic Management
Owner	: Navantia
Technologist	: MAN

Project Brief

Using solar power only, the catamaran "sun21" undertook the first motorized crossing of the Atlantic with solar power to promote the great potential of this technology for ocean navigation.

The "sun21" arrived in New York after sailing from Cadiz (Spain), having covered about 7000 sea miles. Recently, the crew of the sun21 was awarded by the Guinness World Records for the fastest transatlantic crossing made completely under solar power.

TOTAL cooperated in this project with custom's clearance, agency and port operations.

Project Scope

- Port operations.
- Ship's agency.
- Custom's clearance.

project management

totalproject

Project: CCC SAN ROQUE

Project Details

Date	: 2001
Project Name	: CCC San Roque
Type	: Power Generation
Country	: Spain
Location	: Algeciras
Description	: Integral Logistic Management
Owner	: Endesa
Technologist	: ALSTOM

Project Brief

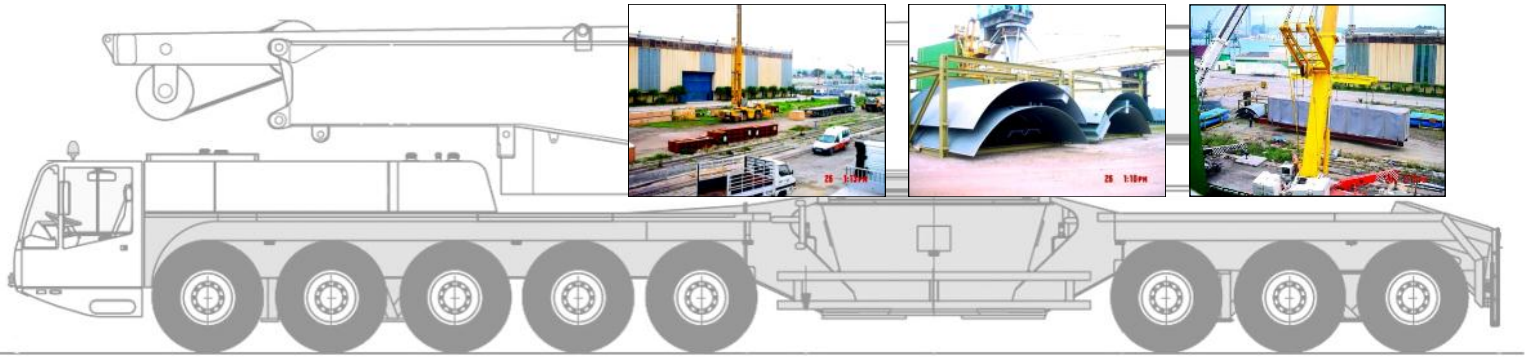
The 2x400 MW Combined Cycled Power Plant at San Roque enjoyed again of the logistic management of the project division of Total Logistic Services.

The cargoes arrived to the port in four shipments from different origins. TOTAL was in charge to manage more than 6.000 tons of equipments arranging stevedores, cranes, and specialized staff to coordinate the port operations and the transport of all units to the jobsite.

About one hundred transports were performed by TOTAL to transfer all the equipments received from the port to the jobsite.

Project Scope

- Port operations.
- Ship's agency.
- Intermediate storage service.
- Inland transportation from port to jobsite.
- Logistic management.



totalproject

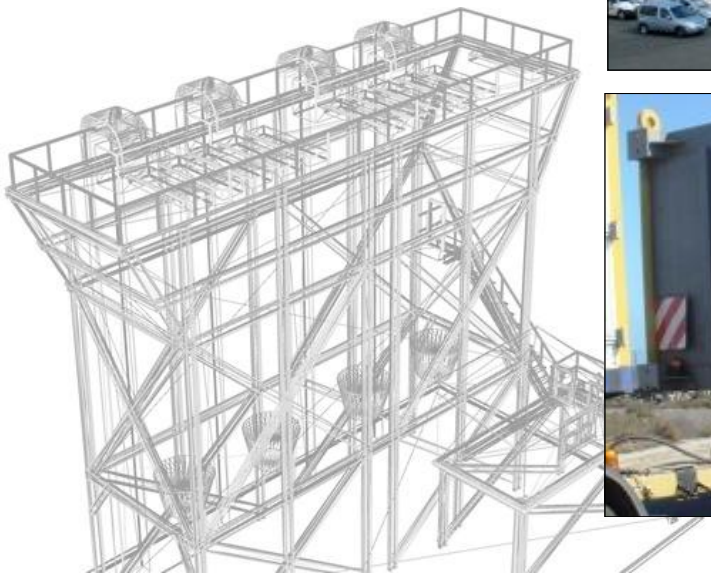
Project: CCC BARRANCO TIRAJANA II

Project Details

Date	: 2007
Project Name	: CCC Barranco Tirajana II
Type	: Power Generation
Country	: Spain
Location	: Las Palmas de Gran Canaria
Description	: Integral Logistic Management
Owner	: Endesa
Technologist	: GE

Project Scope

- Port operations.
- Ship's agency.
- Custom's clearance.
- Intermediate storage service.
- Inland transportation from port to jobsite.
- Logistic management.



Project Brief

The port of Arinaga in the Canary Islands was the scenery for the HRSG portion of this Combined Cycled Power Plant project TOTAL was involved.

The shipment arrived in a heavylift vessel including the HRSG tube blocks with a total weight of 1.200 tons and 2.900 cubic meters. The eights tube blocks units were unloaded from the vessel in a record time of seven hours. Once unloaded onto modular semi trailer, one by one were placed in the storage area onto beams and stools until were required by the jobsite.

The transport of the units from the port to the jobsite was performed with a modular semi trailer with 14 axles escorted by the local police and the typical sun.

totalproject

Project: US NAVY SUPPORT

Project Details

Date	: 2008 - 2009
Project Name	: Navy logistic support
Type	: General
Country	: Spain
Location	: Rota
Description	: Port support service.
Owner	: US Navy
Technologist	: N/A

Project Scope

- Port operations.

Project Brief

It's usual that the United States Government required to TOTAL a specialized team for stevedoring and port operations support at the Rota Naval Base (Spain).

Our team assist to the logistic of the Navy ships during operations in the Naval Base. Equipments as copters, containers and vehicles of several types, are handled by TOTAL in this support service.

totalproject

Project: CCC CAS TRESORER II

Project Details

Date	: 2009
Project Name	: CTCC Cas Tresorer II
Type	: Power Generation
Country	: Spain
Location	: Palma de Mallorca
Description	: Integral Logistic Management
Owner	: Endesa
Technologist	: GE

Project Scope

- Port operations.
- Ship's agency.
- Custom's clearance.
- Inland transportation from port to jobsite.
- Logistic management.
- Unloading onto foundations.
- Dismantling and repositioning of obstacles.

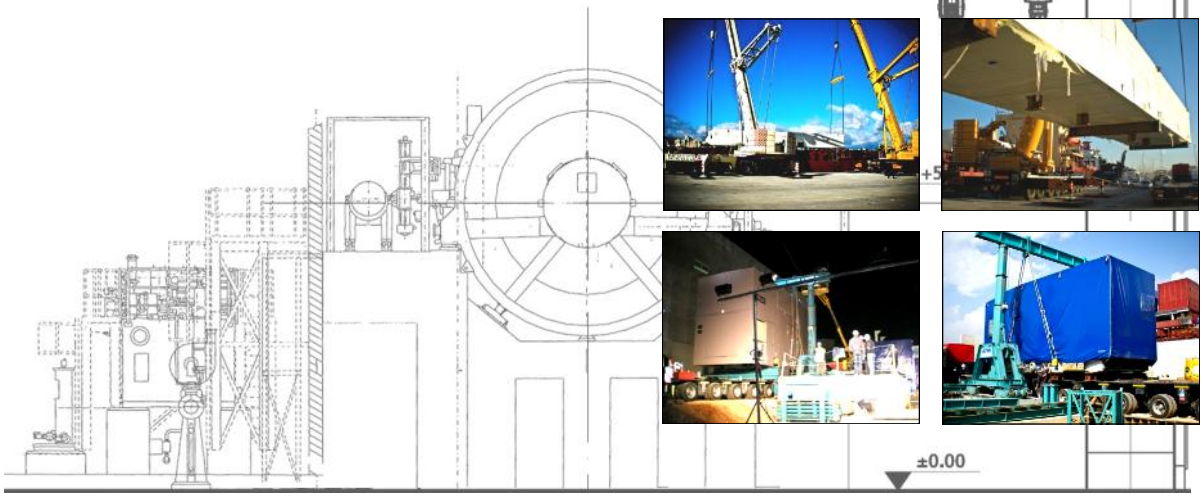
Project Brief

The logistic management of the combined cycled power plant Castresorer II in Palma de Mallorca has been in charge of our company.

A total of five heavylift vessels arrived to the port of Palma transported the total of components of this power plant. More than 3.245 tons and 13.400 cubic meters were the total of cargoes managed including 2 gas turbines, 2 generators and 8 HRSG tubeblocks as main heavy components.

The heavy transport were performed with a 16 axles modular semi trailer. Gas turbines with an unitary weight of 92,3 tons, generators with 136 tons and tubeblocks with a medium wight of 152 tons were transported by us from the port to the jobsite according to the client's requirement.

We also been in charge of the unloading of gas turbines and generators onto foundations.



totalproject

Project: CTCC C.COLON

Project Details

Date	: 2005
Project Name	: CTCC Cristobal Colon
Type	: Power Generation
Country	: Spain
Location	: Huelva
Description	: Maintenance and Repair
Owner	: Endesa
Technologist	: Mitsubishi Heavy Industries

Project Brief

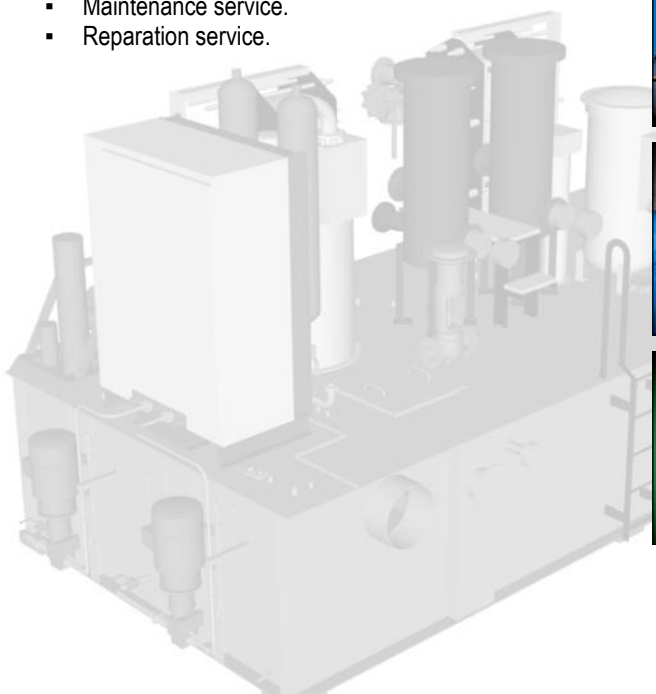
During the long term storage of the equipments of the Cristobal Colon power plant, TOTAL was required in several times to arrange and perform different maintenance and repairing works by the technologist of the project.

Between the services provided TOTAL arranged and performed cleaning of stainless steel fabrications, surface preparation, anti corrosion procedures, cleanliness mechanical, coats applications, etc.

Maintenance and repairing services helped to technologist to deliver the equipments in good order to the final client.

Project Scope

- Assistance staff.
- Loading & unloading operations.
- Crane and auxiliary machinery.
- Maintenance service.
- Reparation service.



totalproject

Project: SEF COMPOSTILLA

Project Details

Date	: 2007
Project Name	: SEF Compostilla II
Type	: Power Generation
Country	: Spain
Location	: Compostilla
Description	: Integral Logistic Management
Owner	: Endesa
Technologist	: Mitsubishi Heavy Industries

Project Scope

- Port operations.
- Ship's agency.
- Custom's clearance.
- Intermediate storage service.
- Inland transportation from port to jobsite.
- Logistic management.

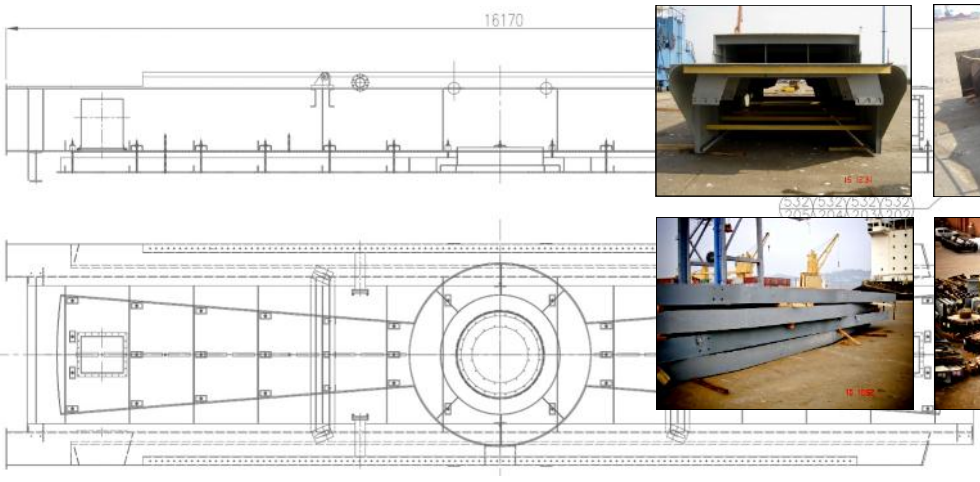
Project Brief

Our great Japanese client has given to us the opportunity to serve to them again in a project in Spain.

Total was in charge of the logistic management of the SEF Compostilla II Project. This project was the construction of a desulfuration plant in the second group of the Compostilla power plant.

A total 330 tons with 1.565 cubic meters were received in the port of Gijon in a breakbulk vessel arrived from Thailand. All cargoes were unloaded on port from where Total arranged the inland transportation to the jobsite at Leon (Ponferrada). Additional cargo was received containerised in the Barcelona port, arranging the unstuffing and transport to the jobsite also.

Custom's clearance and payment of duties were included in the scope of our service contract.



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Project: STF-HS ANDORRA TERUEL

Project Details

Date	: 2007
Project Name	: STF-HS Andorra Teruel
Type	: Power Generation
Country	: Spain
Location	: Andorra Teruel
Description	: Integral Logistic Management
Owner	: Endesa
Technologist	: Mitsubishi Heavy Industries

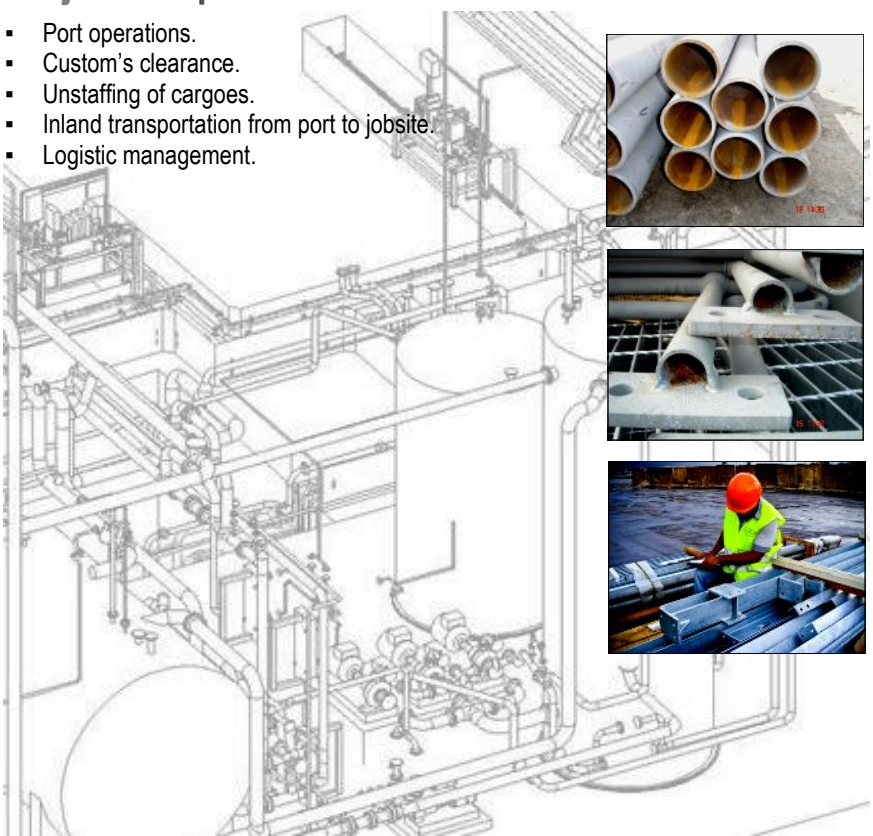
Project Brief

Total was in charge of the custom's clearance and inland transportation service for all the cargoes for this Wet Flue Gas Desulfurization power plant built by our client at the power plant of Andorra Teruel.

About 600 tons was transported in containers from Indonesia and Japan to Barcelona port. Once arrived the cargoes, Total was in charge of the custom's clearance of the cargoes according the order of our client. Once cleared, containers were unstuffed in our facilities from where were transported in semitrailers to the jobsite.

Project Scope

- Port operations.
- Custom's clearance.
- Unstaffing of cargoes.
- Inland transportation from port to jobsite.
- Logistic management.



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Project: SIF VELILLA 2

Project Details

Date	: 2007
Project Name	: SIF Velilla 2
Type	: Power Generation
Country	: Spain
Location	: Palencia
Description	: Integral Logistic Management
Owner	: Iberdrola
Technologist	: Mitsubishi Heavy Industries

Project Scope

- Port operations.
- Ship's agency.
- Custom's clearance.
- Inland transportation from port to jobsite.
- Logistic management.
- EU Door to door inland transport service.

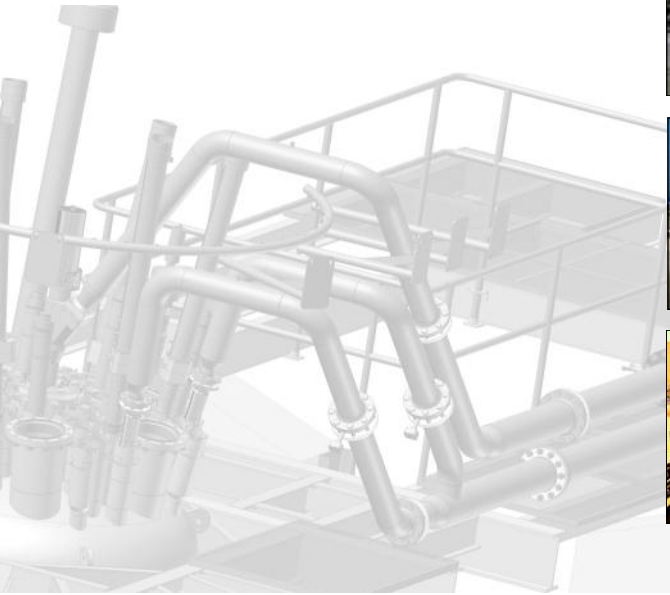
Project Brief

Total was in charge of the logistic management of the SIF Velilla II Project. This project was the construction of a desulfurization plant in the Velilla power plant.

A total 285 tons with 2.100 cubic meters were managed by us. Two breakbulk carriers transported main equipments from China and Indonesia to the ports of Gijon and Santander.

The main target of this project was the inland transportation from Poland and UK of the oversized components of the project by road from the factory to the jobsite according the assembly sequence requirements.

Custom's clearance and payment of duties were included in the scope of our service contract.



to rise to the occasion

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