

# Faraday

energy for the world

A Group company



## Presentation of the Group of Companies

Construction and maintenance services in industrial plants and renewable energies

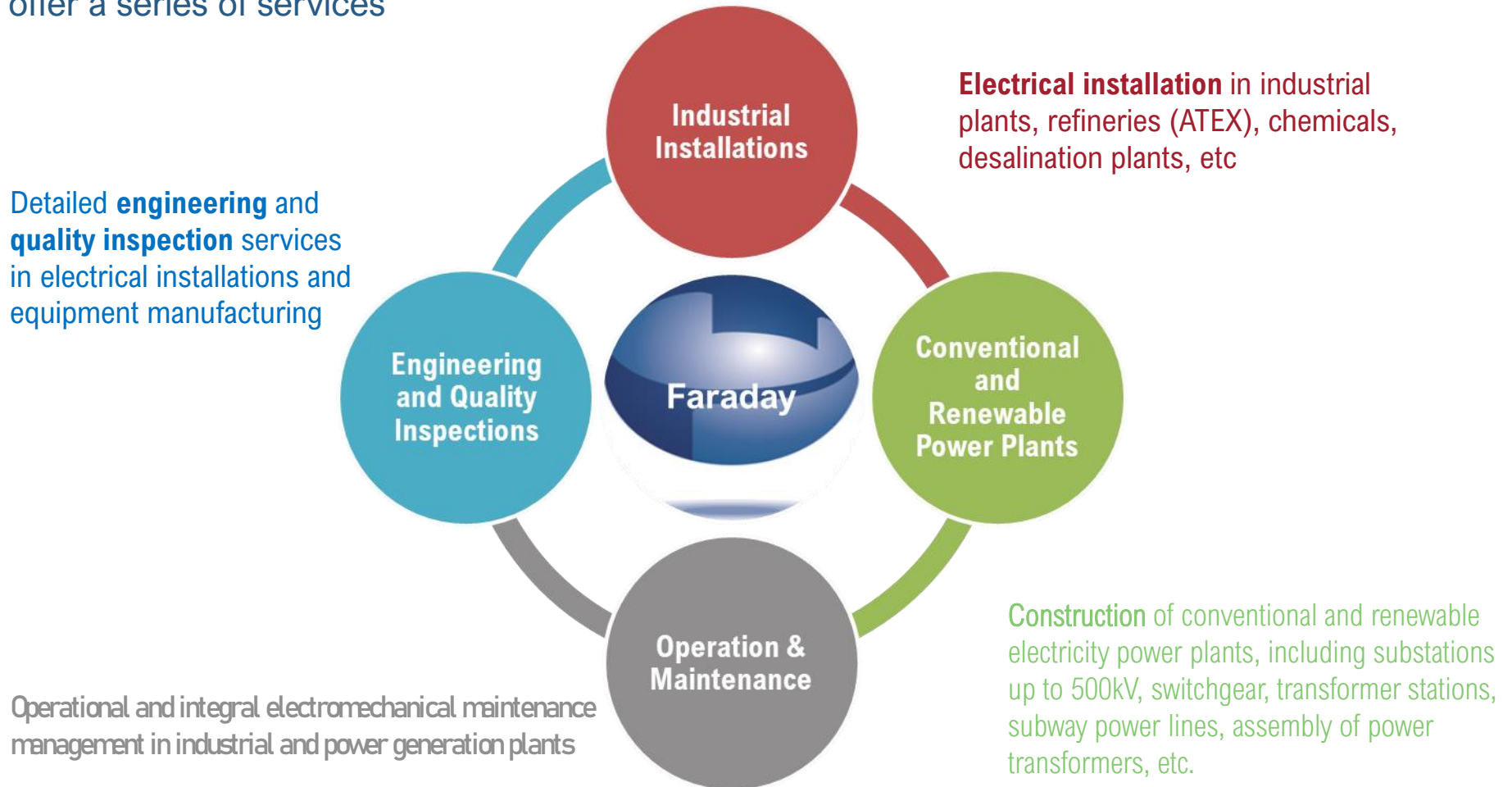
# Electrical Construction and Maintenance



Design, development, implementation, installation, operation and maintenance of electrical systems.

# Business lines

The Faraday International Group of Companies is created by two experts in the world of construction and maintenance of electrical and renewable installations to offer a series of services



# Core competences and know-how

## Presenting our team

We are a group of experts with extensive **experience** in large electrical installations in the industrial sector.

We have participated for more than 30 years in the development of major projects in oil refineries, industrial plants, power plants, etc.

We develop maintenance of electromechanical installations all over the world.

We **optimize processes** to achieve the satisfaction and loyalty of our customers.

We **take care** of our employees which is then reflected in our good technical work.

We work well because we have **experience** in the sector, we know the **business** and we take care of our employees and customers.



## Presentation of the Group of Companies

The Faraday Group of companies was created in Bilbao (Spain) in 2019 by two experts in construction and maintenance services for electricity generation and transmission infrastructures.

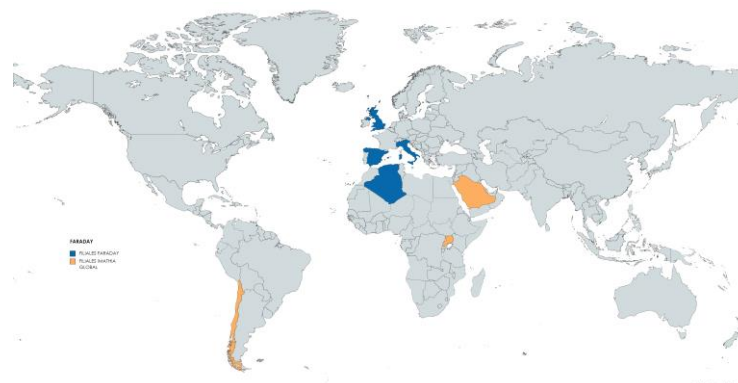
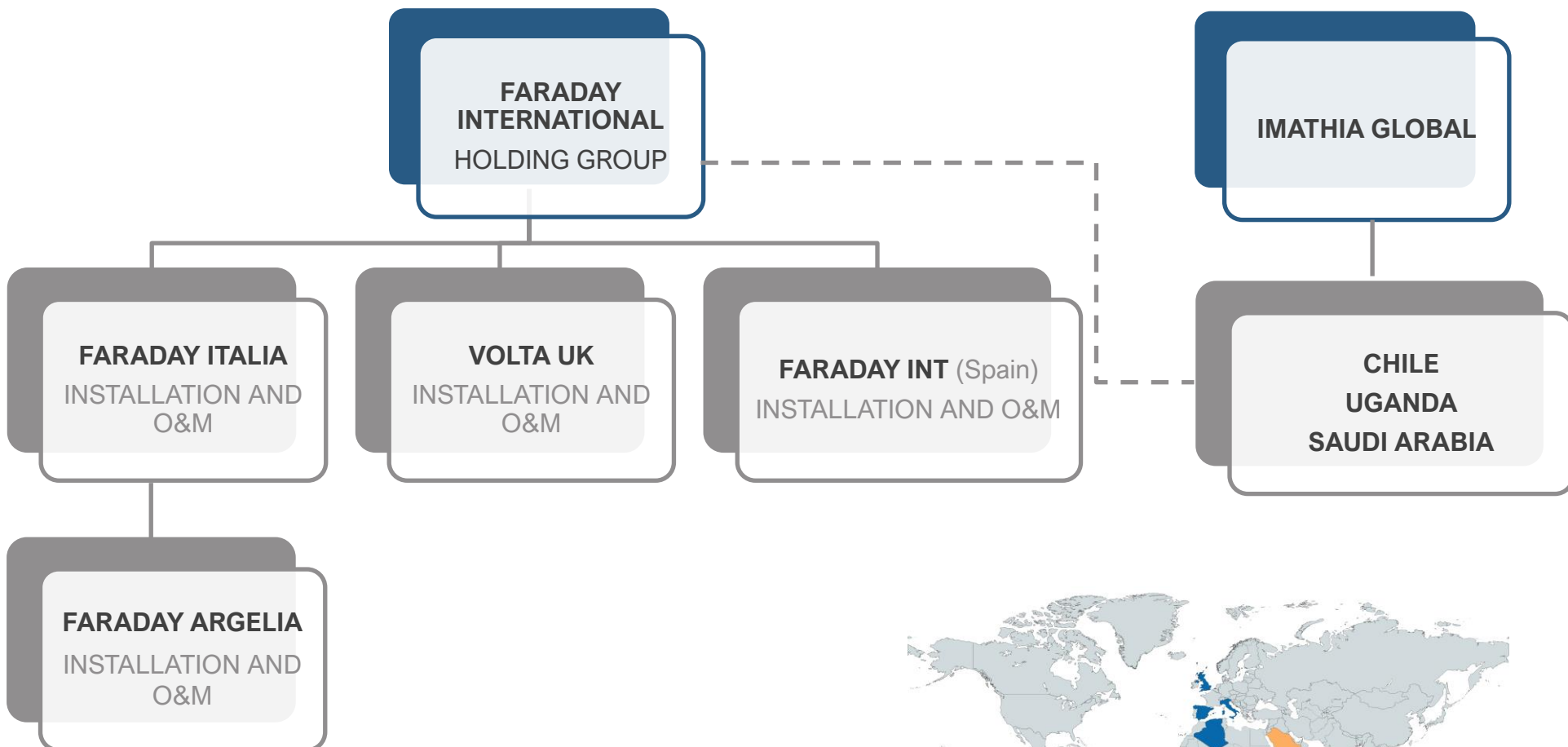
In 2023, the engineering and construction company Imathia Global (Imathia Construcciones and Consultrans) becomes a shareholder of Faraday, thus expanding the portfolio of services and moving its headquarters to Madrid (Spain).

Currently, together with Imathia Global, it has operational headquarters in Spain, Italy, United Kingdom, Chile, Uganda, Saudi Arabia and Algeria.)

Construction and maintenance services in industrial plants and renewable energies

# Group expansion

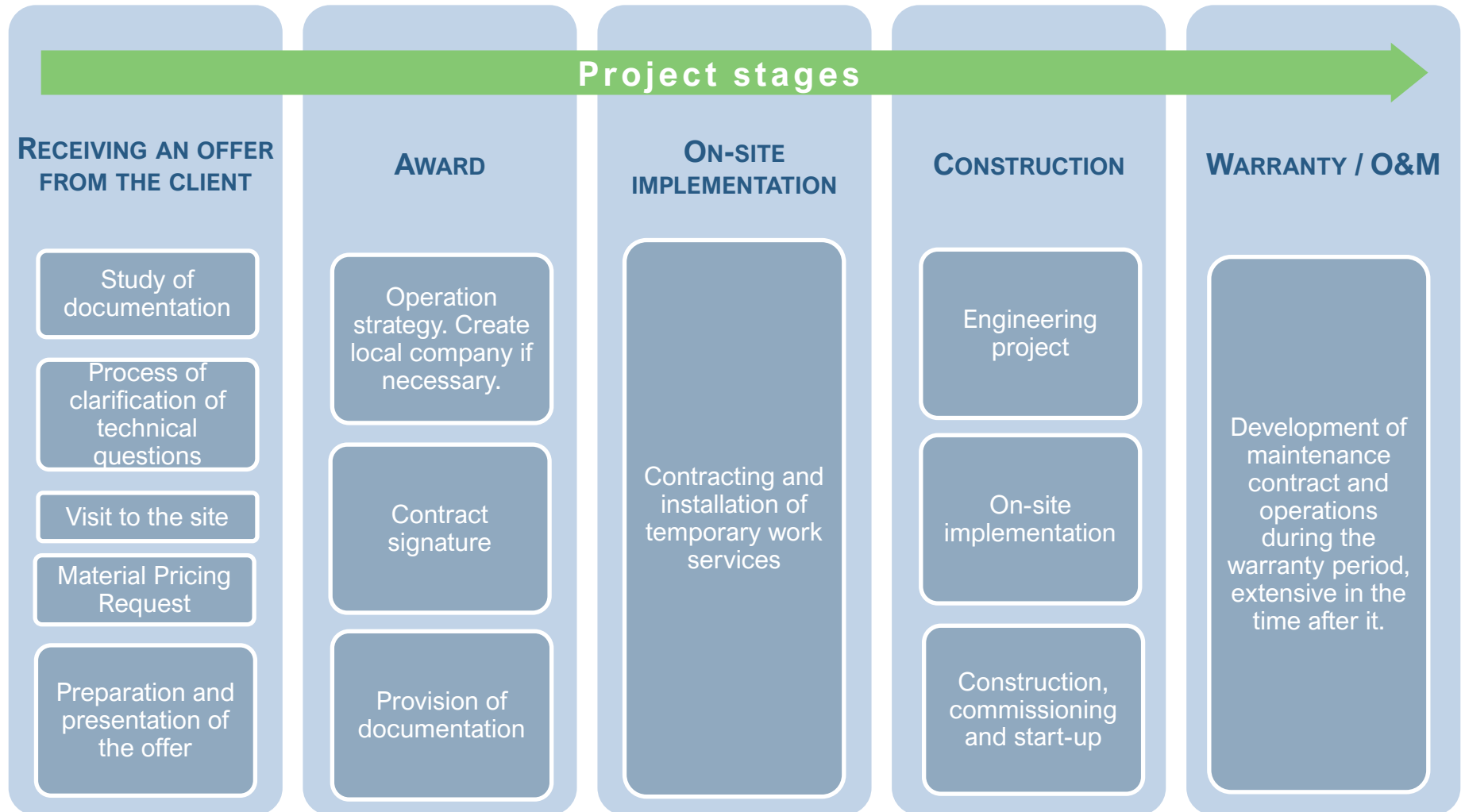
## Current structure





# Different activities depending on the project stage

## Our working procedure



# Scope of engineering and supply

## SCOPE supply of equipment



We carry out the engineering, adaptation and/or repair and supply of electrical equipment.

- ☐ Distribution, control and power panels
- ☐ GIS substations
- ☐ Substation equipment
- ☐ Power and current transformers, auxiliary services transformers
- ☐ Uninterruptible power supply systems (UPS) and batteries
- ☐ Generating sets
- ☐ PV Solar panels
- ☐ Photovoltaic inverters
- ☐ Lighting equipment





# Scope of constructions and O&M

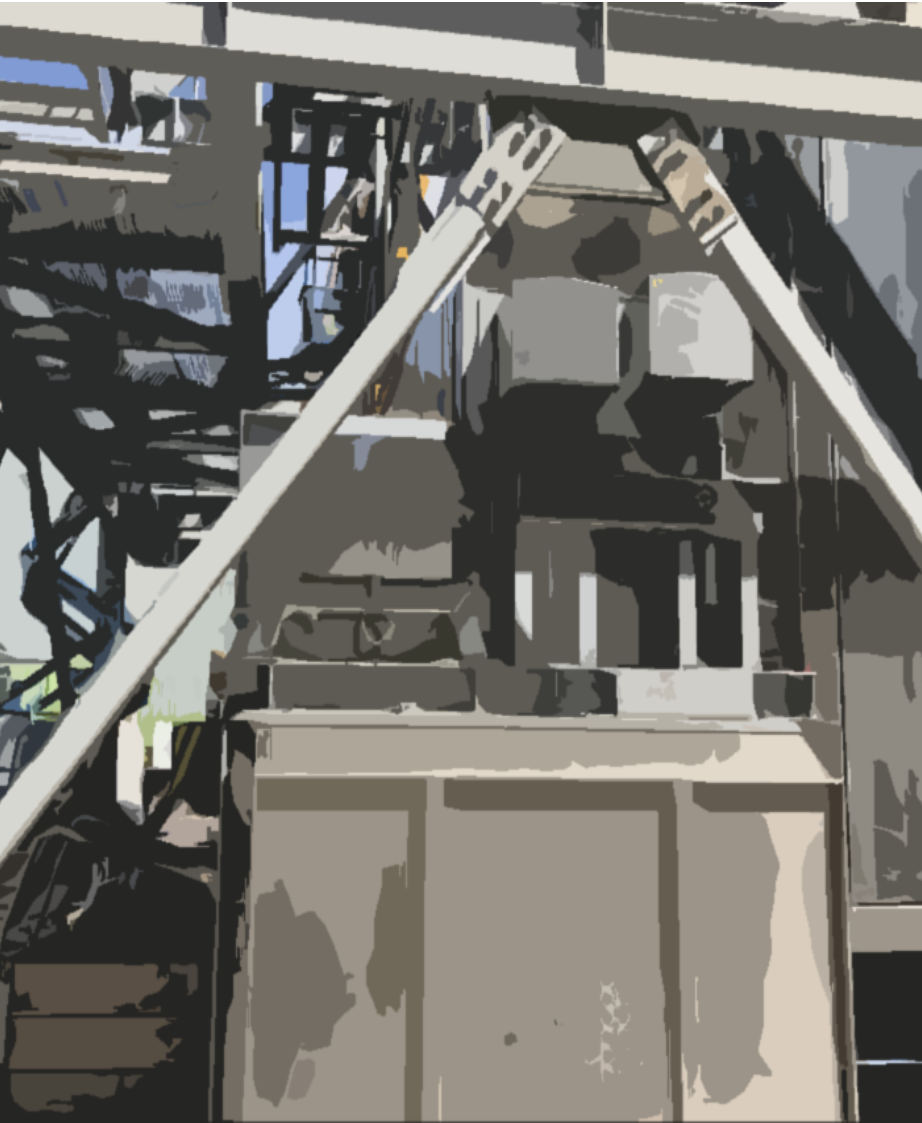
## SCOPE Electric erections



- ☐ Power Centers, MCC & Auxiliary Distribution
- ☐ Power & Distribution Panels
- ☐ Switchgear,
- ☐ Motor starter
- ☐ Uninterruptable Power Supply Systems (UPS) & Batteries
- ☐ Metering, Protection & Relays, Alarms
- ☐ Erection & instalation Cable tray, unistrut, Conduit
- ☐ Erection & instalation control station, junction boxes
- ☐ Pull, dress & termination earth Cables
- ☐ Pull, dress & power Cables
- ☐ Pull,dress & control Cables
- ☐ Final Banding
- ☐ Gland & termination power cables
- ☐ Gland & termination control cables
- ☐ Test power cables
- ☐ Test control cables
- ☐ Light fittings

# Scope of constructions and O&M

## SCOPE Instrument erections



- ☐ Erection & connection Pressure Transmitters
- ☐ Erection & connection Temperature Instruments
- ☐ Erection & connection Level Instruments
- ☐ Erection & connection Flow Instruments
- ☐ Erection & connection Vibration sensor, Velomitors & Speed Sensors
- ☐ Erection & connection Push Buttons, Selectors, Lamps, Hand Switches
- ☐ Erection & connection Remote Local Indicators
- ☐ Erection & connection Dust Transmitter.
- ☐ Erection & connection Position Transmitter.
- ☐ Erection & connection Weight transmitter.
- ☐ Erection & connection Torque Transmitter.
- ☐ Erection & connection Limit Switches
- ☐ Loop checks
- ☐ Erection valves.
- ☐ Erection & connection motor actuated valves

# Scope of constructions and O&M

## SCOPE Sets and power plants



- ☐ HV Switches
- ☐ HV Disconnectors
- ☐ Power transformers
- ☐ Bushings and connectors
- ☐ Measurement and protection transformers and REAs
- ☐ MV Outlets
- ☐ Capacitor banks
- ☐ Lightning arrestor systems
- ☐ Earth grids
- ☐ AC power auxiliary services
- ☐ DC power auxiliary services
- ☐ Protection relays
- ☐ Measurement equipment
- ☐ Remote control
- ☐ Safety equipments
- ☐ Fire protection equipments
- ☐ Generators
- ☐ Integral maintenance of perimeters, fences, CCTV

# Scope of constructions and O&M

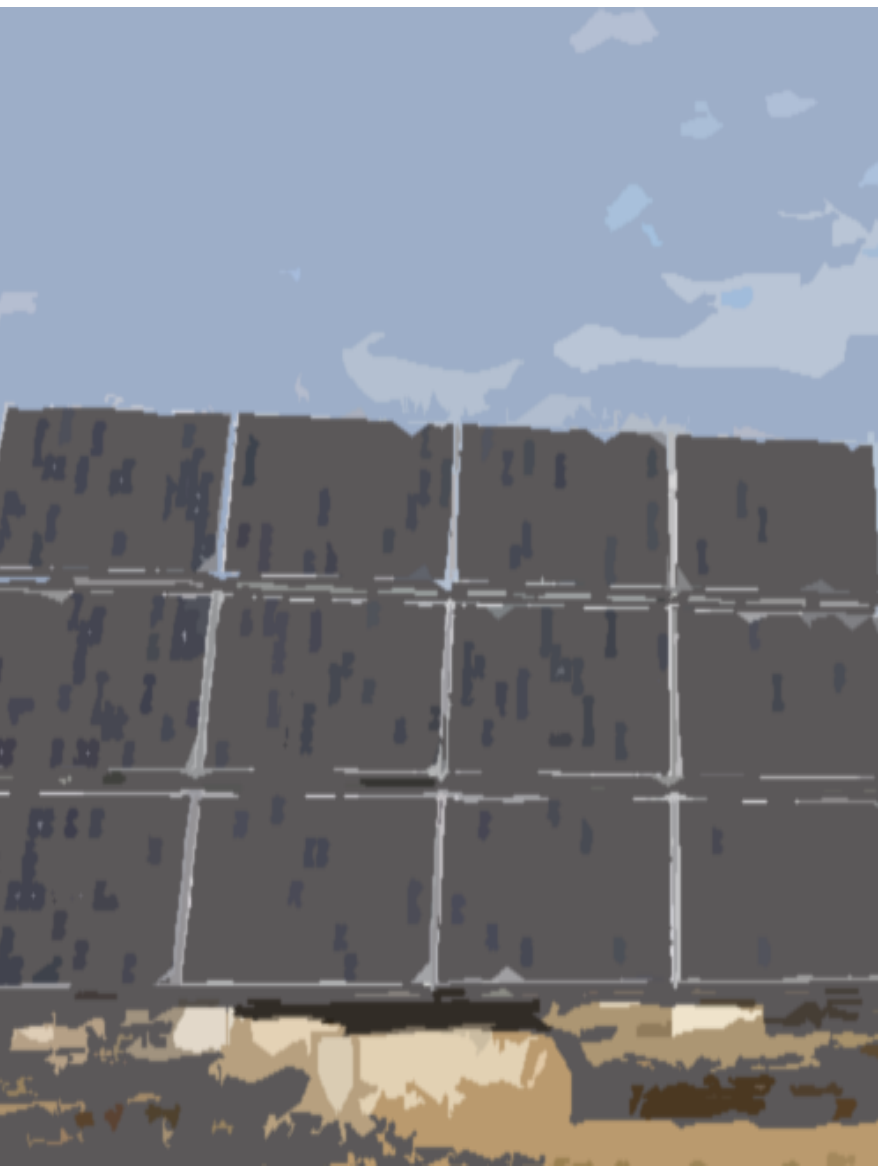
## SCOPE Sets and power plants – Power transformers



- ☐ Transformer erection and disassembly, joints replacement, levels, bushing, valves, Buchholz, etc.
- ☐ Transformer relocation.
- ☐ Filling treatments of new Transformers of any type (power, furnace, cored, column, reactances, etc.)
- ☐ Transformer and equipments monitorization. SMS communication of critical alarms to maintenance manager cell.
- ☐ Operation display in real time, etc.
- ☐ Oil conditioning UNEEN-60422
- ☐ Intensive demisturization of the transformer core/active part.
- ☐ Intensive oil degasification with the transformer in service.
- ☐ Oil passivation.
- ☐ Conditioning of synthetic esters and isolating silicone.
- ☐ Analysis and diagnosis of dielectric fluids

# Scope of constructions and O&M

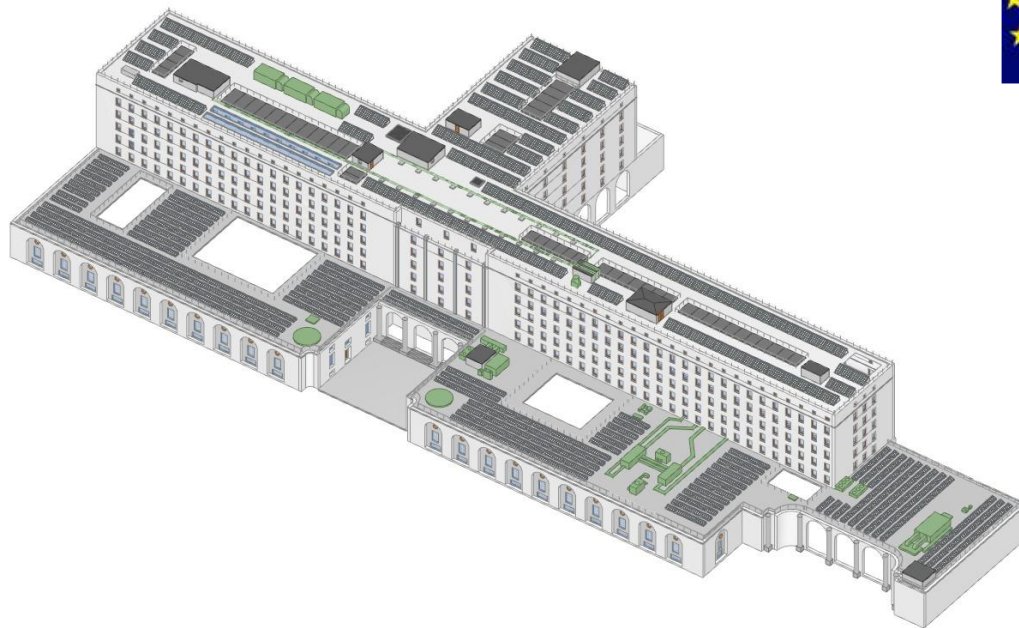
## SCOPE Sets and power plants – Renewable O&M



- ☐ Preventive, corrective and conductive maintenance on inverters. Data programming and download. Reprogramming. Air filters and batteries replacement.
- ☐ Maintenance of the perimeter fences, enclosures and TVOC.
- ☐ SCADA plant monitorization.
- ☐ Modem installation according to A72 and 595.
- ☐ LV and MV electrical conductors replacement.
- ☐ Maintenance of meteorological station.
- ☐ Maintenance and servicing of optical fiber.
- ☐ Revamping of modules and inversors.
- ☐ Lawn mowing.
- ☐ Cleaning of panels.
- ☐ Mapping.
- ☐ Thermography, I/V curve, isolation control.
- ☐ Level boxes maintenance.
- ☐ Electroluminescence tests.



### MINISTRY OF ECOLOGICAL TRANSITION SOLAR 467kW3D PHOTOVOLTAIC SOLAR ROOF PROJECT MITECO (MADRID)



Datos Técnicos	
Primary Energy	SUN
Production	467 kW



### HYBRID POWER PLANT WITH ENERGY STORAGE

TORRE DE JUAN ABAD (CIUDAD REAL) - OWN DEVELOPMENT FARADAY

ENERGY PRODUCTION- It is proposed to build a 49.9 MW hybrid electricity production plant, managed by the vehicle company Navalavaca Tecnologías Energéticas- Developed in 5 Phases from 4 to 15 MW- Possible Mix of Technologies:- Photovoltaic installation with 1-axis trackers.- Generation facility using lean cycle engines for Biomass Syngas.- Storage facility using 2 x 40ft containers with 10MWh of storage.- Wind power installation with 3.5 MW wind turbines.

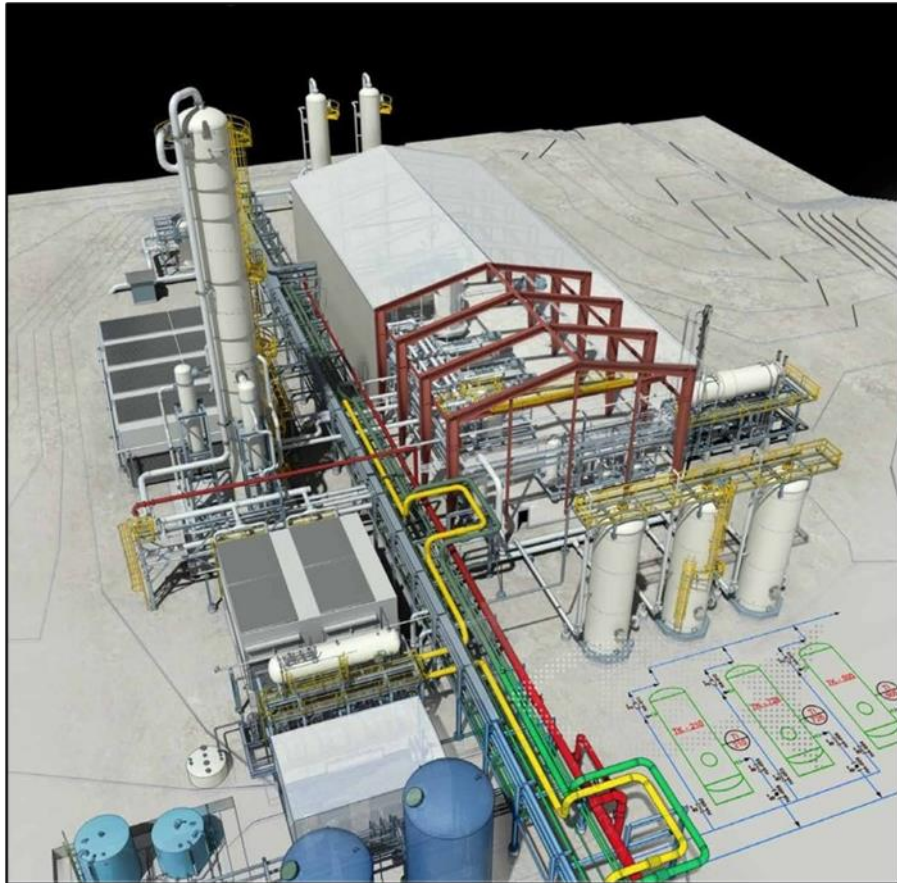
#### NAVALAVACA TECNOLOGÍAS ENERGÉTICAS


Datos Técnicos	
Primary Energy	SUN WIND BIOMASS
Production	49,9 MW

# References

## Main References · [SPAIN]

### POWER PLANT FOR THE REVALORISATION OF GREENHOUSE PLASTICS FOR CONVERSION IN METHANOL, ALMONTE (HUELVA) - OWN DEVELOPMENT FARADAY



NOVA  CONDADO

Datos Técnicos	
Primary Energy	PLASTICS, BIOMASS
Production	METHANOL, HYDROGEN

# References

## Main References · [UK]

**TEES RENEWABLE ENERGY PLANT [REP], TEESSIDE**  
IT'S A 299 MW BIOMASS-POWERED, COMBINED HEAT AND POWER (CHP) PLANT.



**SAMSUNG**

### Technical Data

Primary energy	BIOMASS
CHP	299 MW



# References

## Main References · [SPAIN]

### SET PEAKERS SOLAR 50MW SOLAR POWER PLANT ESCATRON (ZARAGOZA)



Technical Data	
Primary energy	SUN
Power	50 MW

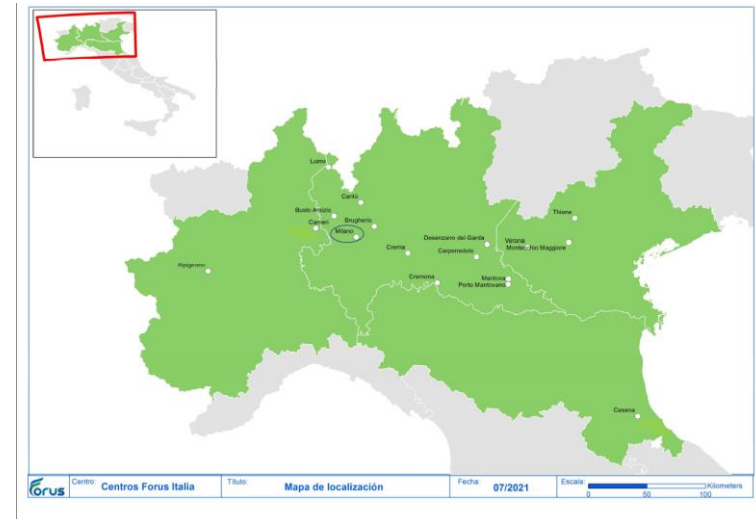


# References

## Main References · [ITALY]

### FORUS SPORTS CENTRES

COMPREHENSIVE MAINTENANCE OF FORUS SPORTS CENTRES IN ITALY



LV, MV, HVAC, structure, swimming pools,  
solar photovoltaic, gas...

### PHOTOVOLTAIC SOLAR PLANTS

COMPREHENSIVE MAINTENANCE OF MORE THAN 500 MW AT PSFV ITALIA





# References

## Main References · [CHILE]

### MULTISITE ENGINE POWER PLANT QUICKSTART 475 MW TECHNOLOGY: MTU 16V4000 ENGINES (Q264)



Rolls-Royce and TSK to deliver five power plants, 475 MW of backup capacity for Chile's national electricity grid.

#### Technical Data

Primary energy	GAS
Power	475 MW
Engines	264 Q



# References

## Main References · [CHILE]

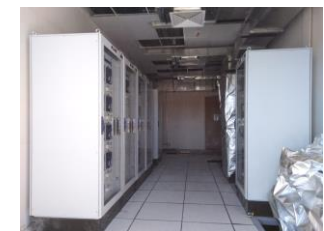
### LASANA PV POWER PLANT 50 MW SOLAR POWER PLANT SAN PEDRO



**PRODIEL**

#### Technical Data

Primary energy	SUN
Power	50 MW





# References

## Main References · [CHILE]

### CONSTRUCTION OF “SOL DEL DESIERTO” PV PLANT 250 MW SOLAR POWER PLANT AND SET



**PRODIEL**

#### Technical Data

Primary energy	SUN
Power	250 MW



## Main References · [ANGOLA]

### MALANJE WIND PLANT 104 MW ENGINEERING AND TECHNICAL ASSISTANCE FOR WIND ENERGY DEVELOPMENT



Technical Data	
Primary energy	WIND
Power	104 MW

# References

## Main References



**WORLDWIDE MAINTENANCE SERVICE FOR GAMESA INVERTERS**  
CORRECTIVE MAINTENANCE OF ELECTRIC INVERTERS



**DETAILED ENGINEERING FOR PHOTOVOLTAIC PLANTS FOR VENA ENERGY**  
QUALITY INSPECTION IN MANUFACTURING AT SUPPLIERS OF VENA ENERGY JAPAN



# Addresses



**FARADAY INT SL**  
Agustín de Foxá 26 · 28036 MADRID  
ESPAÑA  
+34 91 417 0310  
[info@faradayinternational.eu](mailto:info@faradayinternational.eu)



**VOLTA POWER SOLUTIONS UK LTD**  
LONDON, EC3M 8AA  
ENGLAND  
[jesus.olivar@voltapowersolutions.uk](mailto:jesus.olivar@voltapowersolutions.uk)



**FARADAY ITALIA SRL**  
Via della Sforzesca 1 · 00185 ROMA  
ITALIA  
+39 328 555 4282  
[uff.roma@faradayitalia.it](mailto:uff.roma@faradayitalia.it)

