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hidroambiente
elecnor group

| water treatment engineering services |

POWER PLANTS



Hidroambiente, within the Elecnor Group, was founded in 1993 to deliver Water Treatment solutions to highly demanding customers from the industrial and public sector.

We strive to meet our customers' satisfaction by addressing every stage in a water treatment project, i.e. Design, Construction, Assembly, Commissioning, Operation & Maintenance and Technical Assistance.

This commitment is possible thanks to a very experienced innovation-committed highly-skilled staff.

Our long-standing experience, our countless references and our prestige in the market together with the importance of our customers encourage us to go on with this strategy.



1. Services

- Manufacturing of "Turn Key" Water Treatment Plants
- Equipment Manufacturing
- Supply of Materials
- "In house" Construction and Assembly
- Start-up Service
- Technological Adjustment and Upgrading
- Transfers and Revamping

Before undertaking any Investment:

- Basic Engineering Solutions
- Detail Engineering
- Technical Assessment on the Design of New Plants
- Water Networks Audits and Solutions



2. Make-Up Water

- Sludge Recirculation Clarifiers
- Lamellar Settler Tanks
- Dissolved Air Flotation (DAF)
- Open & Closed Sand Filters
- Microfiltration
- Activated Carbon Filtration
- Ultrafiltration and Reverse Osmosis
- Seawater Desalination
- Water Reuse



3. Demineralized Water: Ion Exchange

- Softening
- Decalcification & Decarbonation
- Ion Exchange: Co & Counter-Current
- Fluidized & Lift. Beds
- Atmospheric Degasification
- Mixed Beds
- Scavengers
- Resins Washers
- Carbon Disinfection & Activation



4. Demineralized Water: Membranes

- Microfiltration
- Open & Closed Ultrafiltration
- Nanofiltration
- Degasification with Membranes
- Reverse Osmosis
- EDI Systems
- Electro Dialysis Reversal (EDR)
- Energy Recovery Systems



5. Condensates Treatment

- Corrosive Products Removal
- Silica Traces Removal
- Leaks Salt Removal in Condensates
- Oil Removal through Activated Carbon
- Cartridge Filters
- Cation Exchanger & Mixed Beds
- Pulverized Resin Pre-Coat



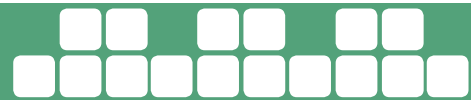
6. Effluents Treatment

- Effluents from Regeneration in Ion Exchange Systems
- Effluents from Membrane Plants
- Effluents from Coal Yards
- Oily Water Effluents
- Storm Water Runoff Treatments



7. Sludge Treatment

- Sludge from Lime Decarbonization
- Make Up Primary Sludge
- Biological Treatments Sludge
- Coal Yards Sludge
- Static & Dynamic Thickeners
- Press Filters
- Belt Filters
- Centrifugal Filters
- Silos
- Belts & Screws Sludge Handling
- Thermal Drying





8. Special Treatments

- Stripping
- Coal & Particles Scrubbers
- Enriched Matter Recuperation
- Coal Ashtrays
- Blow Down Water Recuperation
- Evaporation
- Desulphuration/Desulphurization Effluents
- Side Filtration in Cooling Circuits
- Chemical Treatment in Cooling Circuits



9. References

Energy

Acciona Energía
Cobra
Duro Felguera
Çalik Enerji
Electroingeniería
Iberdrola Ing. y Const.
Inelectra
Initec Energía
Isolux Corsan
Sener
TSK
Almaraz Trillo
American Energy Society
Elcogas
Enel
ESB
Iberese
MPX
Unión Fenosa
Gas Natural

Iron, Steel & Metals

Aluminium

ALCOA
Thyssen GUSS
Copper
ALSA
Outokumpu Copper Tubes

Ferroalloys

Ferroatlántica

Steel

ArcelorMittal:
Bergara, Olaberria, Madrid,

Sestao, Zaragoza

CAF
Condasa Fabril
Fundición Nodular

Gerdau:
Azkoitia, Basauri, Legazpi, Reinoso,
Vitoria/Gasteiz

Celsa:
Celsa Barcelona, Celsa Steel UK,
Global Steel Wire, Nervacero

Alfonso Gallardo:
Corrugados Azpeitia,
Corrugados Getafe

Riva:
Siderúrgica Sevillana

SIMEC:
Siderúrgica de Mexicali

SKS

Thyssen Mieres

Tubos Reunidos

Primetals

SMS-Sidernaval

Zinc

Asturiana de Laminados

Befesa

Hindustan Zinc

Chemical Industry

Acideka

Arkema

Brilen

Cabot

Celanesse

Derivados del Flúor

Lascaray

Lurgi

Michelin

Nivea

Poliseda
Portland
Praxair
SABIC
Union Carbide

Oil Industry

Cepsa

Disa

Esergui

Galp

Meroil

PDVSA

Repsol

Fluor

GS

Intecsa Industrial

Itochu

Saipem

Técnicas Reunidas

Food

Agrovic

Antonio Muñoz

Azucarera ACOR

Carrefour

Cervezas Damm

Coca Cola

Conservas Dardo

Conservas Ortiz

Copag

Delicass internacional

Ebro Agrícolas

Fruit Tech Natural

Iparlat

Mahou

Malvasia

Navarra Trout

Pepsico

Pulp & Paper Industry

Echezarreta

Ence

Smurfit

Others

Acciona

CABB

Cadagua

Cespa

DFB

Ferrovial

Gobierno Navarra

Grupo Antolín

Mercedes

Renault

SAV-DAM

