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**hidroambiente**  
elecnor group

| water treatment plants |

**FOOD & DRINKS**



# hidroambiente

elecnor group

Hidroambiente, an Elecnor subsidiary, was established in 1993 in Getxo (Spain) to deliver Water Treatment Solutions for the most demanding clients in the industrial and public markets.

We strive to meet our customers' satisfaction by addressing every stage in a Water Treatment Project, from Design, Construction, Assembly, Commissioning, O&Ma to Technical Assistance.

This value proposition is possible thanks to our highly professional, innovation-commitment and experienced staff.

Hidroambiente is strongly committed to the Environment, Quality, Safety, R&D and Innovation and is certified in all these areas through a comprehensive Integrated Management System.

Our extensive experience, countless references and prestige in the market encouraged us to set up our branch Hidroambiente SAU México in 2014 with the aim of serving our clients in North & Central America and the Caribbean with a permanent local structure.



## SERVICES

- Manufacturing of "Turn Key" Water Treatment Plants
- Equipment Manufacturing
- Supply of Materials
- "In house" Construction and Assembly
- Start-up Service
- Water Networks Audits and Solutions
- Technological Adjustment and Upgrading:
  - Transfers and Revamping
  - Basic Engineering Solutions
  - Detail Engineering
  - Technical Assessment on the Design of New Plants
- Operation & Maintenance (O&M) of Water Treatment & Desalination Plants.



## 1. Make up-Drinking water

Hidroambiente's Drinking Water Treatment Plants incorporate cutting-edge technologies such as membranes, THM precursor removal, reagent-free equipment, etc.

We have references in soft drinks and beer industries and for the canning sector we have supplied DWTPs for canned vegetables.

Moreover, we provide multiple designs of Compact Plants for small populations with advantages in low space requirements, minimal civil works and easy connection for immediate delivery of drinking water.

- Sludge Recirculation Decanters
- Lamellar Decanters
- DAF Flotation
- Closed and Open Sand Filters
- Microfiltration
- Activated Carbon Filtration
- Ultrafiltration and Reverse Osmosis
- Seawater Desalination
- Water Reuse



## 2. Demineralized water: ionic exchange & membranes

- Softening
- Decalcification and Decarbonation
- Cold Decarbonation
- Ionic Exchange: Equi and Countercurrent
- Fluidized & Lift Beds
- Atmospheric Degassing
- Mixed Bed
- Scavengers
- Resin Washers
- Disinfection and Activation of Coal
- Microfiltration
- Open and Closed Ultrafiltration
- Nanofiltration
- Degassing with Membranes
- Reverse Osmosis
- Electrodeionization (EDI)
- Electrodialysis Reversal (EDR)
- Energy Recovery Devices (ERDs)



### Condensate polishing

- Corrosion Products Removal
- Silica Removal
- Removal of Salts produced by Leaks in Condensates
- Oil Removal by Activated Carbon
- Cartridge Filters
- Cation and Mixed Beds
- Pre-coat of Powdered Resin



## 3. Waste water

Our designs range from conventional plants to more innovative layouts including SBR, MBR or EDR technologies.

We boast many revamping references in large WWTPs through the integration of thermal sludge drying systems, large mechanical dewatering processes, auxiliary cogeneration plants, membranes upgrading and tertiary treatments for water reuse and zero discharge.

And through the redesign of standard equipment such as conventional decanters, floating decanters, degritters or screening systems.

Greenfield WWTPs for soft drinks and beer industries and revamping and redesign of existing ones.

For the canning industry we have supplied Brackish Water Treatment Plants for fish and protein denaturation. And for industries with high fat content physical-chemical treatments, DAF Flotation Systems, etc.

- Ionic Exchange Regeneration Discharges
- Discharges of Plants with Membranes
- Discharges of Oily Waters



## 4. Sludge conditioning & odour removal

- Sludge from Lime Decarbonation
- Primary Sludge from Make Up plants
- Biological Treatment Sludge
- Static and Dynamic Thickeners
- Press Filters
- Belt Filters
- Centrifugal Filters
- Silos
- Belts & Screws Sludge Handling
- Thermal Drying

### Odour treatments

- Activated Carbon
- Biological Process
- Physicochemical process



## 5. Deacidification, debittering and resin treatments

Plants for fruit juices, natural extracts, essences, wine, grapes, liquid sugar, jellies etc.

Equipment for physical-chemical modifications through ion exchange resins, deashing, demineralization, discoloration, acidity adjustment, elimination of unpleasant odours and tastes, astringent or de-bittering compounds.



## 6. Operation & maintenance (O&M)

- Technical Assistance
- After Sales Service
- Integral O&M Services
- Provision of Spare Parts and Consumables



### SERVICES ON SITE:

- Water Analysis
- Performance Evaluation
- Process Optimization
- Evaluation of Modifications and Upgrades
- Performance Improvements
- Costs Reductions

All these services are managed according to:

- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System
- OSHAS 18001 Health & Safety Management



## 7. References

### Food & Drinks

Agrovic  
Antonio Muñoz  
Azucarera ACOR  
Barrañamar  
Carrefour  
Cervezas Damm  
Coca Cola - Femsa  
Coca Cola - Norbega  
Conservas Dardo  
Conservas Ortiz  
Copag  
Delicass internacional  
Ebro Agrícolas  
Fruit Tech Natural  
Iparlat  
Mahou  
Malvasia  
Mijoa  
Navarra Trout  
Pepsico  
Rich's

### Energy

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

### Iron, Steel & Metals

#### Aluminium

Alcoa  
Iberfoil  
Thyssen Guss

#### Copper

Outokumpu Copper Tubes

#### Ferroalloys

Ferroatlántica

#### Steel

Acerinox  
Aceros de Arequipa  
Alfonso Gallardo:  
Corrugados Azpeitia,  
Corrugados Getafe,  
AQS  
ArcelorMittal:  
Bergara, Olaberria, Madrid,  
Sestao, Zaragoza  
CAF  
Celsa:  
Celsa Barcelona,  
Celsa Steel UK, Global  
Steel Wire, Nervacero  
Condesa Fabril  
Fundición Nodular  
Megasider Zaragoza  
Riva:  
Siderúrgica Sevillana  
Sidenor (Gerdau):  
Azkoitia, Basauri, Legazpi,  
Reinosa, Vitoria/Gasteiz  
SIMEC:  
Siderúrgica de Mexicali  
SKS

Thyssen Mieres  
Tubos Reunidos  
Wino Iberica  
Primetals  
SMS-Sidernaval  
**Zinc**  
Befesa  
EIZinc (Asla)  
Hindustan Zinc

### Oil Industry

Cepsa  
Disa  
Esergui  
Fluor  
Galp  
GS  
Intecsa Industrial  
Itochu  
Meroil  
PDVSA  
Repsol  
Saipem  
Técnicas Reunidas

### Chemical Industry

Acideka  
Arkema  
Brilen  
Cabot  
Celanese  
Derivados del Flúor  
Fertiberia  
Lascaray  
Lurgi

Nivea  
Poliseda  
Portland  
Praxair  
Pro-Agroindustria  
SABIC  
Union Carbide

### Hotels & Resorts

Blue Diamond Resorts  
Excellence Hotels  
Grupo Hermes  
Sandos Hotels & Resorts  
Sirenis Hotels & Resorts  
Vidanta

### Pulp & Paper Industry

Echezarreta  
Ence  
Smurfit Kappa

### Others

CABB  
Cadagua  
Cespa  
DFB  
Ferrovial  
Gobierno de Navarra  
Grupo Antolín  
Mercedes  
Michelin  
Renault  
Satuerca  
SAV-DAM

