



En/Es/Fr
2020

ENVIRONMENT

IDOM

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WHO WE ARE

€320 M

Turnover

60

Years

125

Countries

40

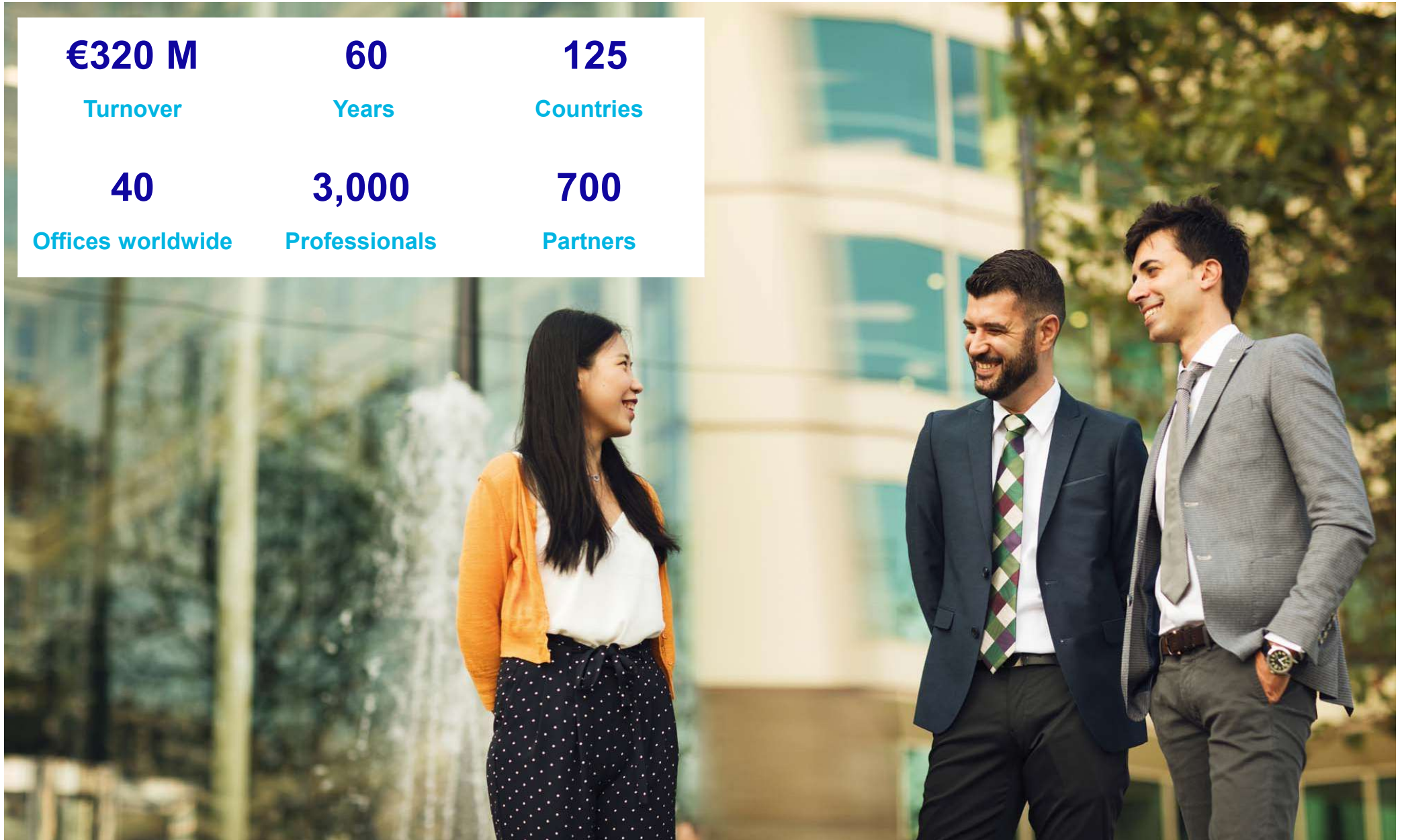
Offices worldwide

3,000

Professionals

700

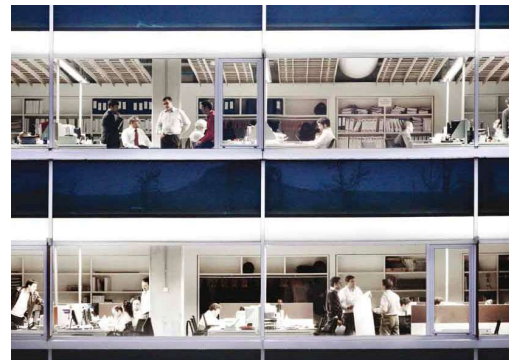
Partners



WHERE WE ARE

IDOM IN THE WORLD

- **Offices in over 20 countries including:** Algeria, Argentina, Brazil, Chile, Colombia, UAE, Slovenia, Spain, United States, India, Mexico, Poland, Portugal, United Kingdom, Senegal, Malaysia, Peru, Turkey, Canada
- **Projects in 125 countries**



Some offices of Idom

WHAT WE DO



INDUSTRY & ENERGY

> IDOM is always at the forefront in the demanding market of Industry and Energy. We look for the most efficient, reliable, sustainable and safety solutions for our clients

- ✓ Industrial Plants
- ✓ Energy (Renewables, Fossil-fuel, Nuclear)
- ✓ **Environment**
- ✓ Advanced Design & Analysis



INFRASTRUCTURES

> We add value at all stages of a project, from the preliminary studies to on-site supervision and commissioning works, exercising due diligence and preparing final reports, including design at all levels.

- ✓ Transport
- ✓ Mobility
- ✓ Telecommunications
- ✓ Basic Sanitation
- ✓ Water Cycle



ARCHITECTURE

> Teams of experienced architects and engineers work together to interoperate all the perspectives of the project and relate them to needs of customers in order to provide a truly integrated service.

- ✓ Buildings
- ✓ Urban Projects & Landscape
- ✓ Project Management
- ✓ Sustainability
- ✓ Green design



CONSULTING

> We provide advice to public and private entities to support the decision-making process, to improve the competitiveness and appeal of regions and corporations.

- ✓ Logistics & Operations
- ✓ Systems & Geosystems
- ✓ Strategic Consulting
- ✓ Development, Innovation, Competitiveness
- ✓ Territory & City

WHAT WE DO

MISSION

> Our multidisciplinary pool of environmental experts help our clients - to be aware of and comply with - environmental obligations, to improve their environmental performance, and to integrate sustainability into their activities. We offer an integrated and innovative range of consulting and engineering services, with high added value, ensuring our clients the maximum economic, social and environmental return on each and every project.



OUR FOCUS

- > Independence
- > Sustainability
- > Multidisciplinary
- > Integration, Innovation
- > Efficiency
- > Expertise
- > Communication

TEAM

> Environmental experts working in all the IDOM offices worldwide. An international multidisciplinary team of experts with the flexibility to adapt to needs of the client.



ACTIVITY

> Waste management & Circular Economy, Climate Change, Clean Energy, Polluted Soils, Natural Capital, Environmental Consulting.



For further information: <https://www.idom.com/projects/environment-2/environmental-engineering/>

WHAT WE DO



WASTE & CIRCULAR ECONOMY

- > Municipal, hazardous, other specific waste ...
- > Recycling, Waste To Energy, MBT, Landfill, Master Plans ...



CLIMATE CHANGE

- > Carbon footprint, mitigation, compensation, adaptation, water footprint ...



CLEAN ENERGIES

- > Renewables (wind, solar, biomass, biofuels, etc.)
- > Energy Efficiency



NATURAL CAPITAL

- > Natural resources management, conservation of species and ecosystems, biodiversity, landscaping ...



CONTAMINATED SOILS

- > Due diligence, research, remediation, risk analysis, reclamation of brownfields sites ...



CONSULTANCY

- > Environmental policies, clean production, cleantech ...
- > Environmental Assessment (EIA, SEA, etc.) ...

WASTE & CIRCULAR ECONOMY

“The time is coming when every person who lays claim to ability will keep the question of waste before him constantly. The scope of thrift is limitless.”

[Thomas A. Edison]

For over 30 years, IDOM has been developing projects in the waste industry, providing comprehensive engineering and consulting services, and introducing innovation. We are now a market leader in this sector.

IDOM has successfully undertaken projects involving all types of waste (domestic, industrial, construction, hazardous and special waste) and covering the entire lifecycle (prevention, generation, collection, transportation, transfer, treatment recovery and disposal).



Image: European Parliament

SERVICES AND CAPABILITIES

- > Solid Waste Management plans
- > Feasibility Studies
- > Design of Solid Waste Treatment & Elimination Facilities
- > Owner’s Engineer (PMC) & Works Supervision of Solid Waste Infrastructures

CLIENTS

> Public Sector

European Union (EU) - World Bank (WB) - Inter-American Development Bank (IDB) - European Bank for Reconstruction and Development (EBRD) - Asian Development Bank (ADB) - OMSAR\ Tragsa- Vaersa - Ecoembes\ Garbiker – Ihobe – Sogama - Tersa

> Private Sector

Global Steel Wire – Befesa – FCC - Ferrovial-Cespa – Lafarge – Fobesa – Guascor - Ros Roca – Sidenor – Tubacex - Urbaser-Tecmed - Taylor Woodrow

SOLID WASTE MANAGEMENT PLANS

TECHNICAL SUPPORT FOR UPGRADING THE SOLID WASTE MANAGEMENT CAPACITIES IN **LEBANON**

Enhance the solid waste management capacities of targeted municipalities, benefiting from the waste management programs of OMSAR, through implementing various activities related to the best practices of solid waste management.



DEVELOP THE NON-HAZARDOUS SOLID WASTE MANAGEMENT PLAN FOR THE PROVINCE OF **SEVILLE** (SPAIN)

The drafting of the Non-Hazardous Waste Plan for the province of Seville. The Scope of works was structured in two lines of work:

1. diagnosis, prognosis and characterization of waste, economic and social studies and programs for meeting objectives.
2. management models and territorial organization studies.



SOLID WASTE MANAGEMENT PLAN FOR THE PROVINCE OF ALAVA (SPAIN)

Establishing the objectives to be met in terms of the management of urban waste, based on the European, state and regional objectives. A series of actions have proposed, to be carried out in 3 different programs aimed at improving the current waste management system of the Territory:

1. Governance and strategic measures program
2. Infrastructure program
3. Other accompanying measures to improve the prevention and management of priority streams



TECHNICAL COOPERATION TO DETERMINE THE POTENTIAL OF THE STATE OF SÃO PAULO TO GENERATE ENERGY USING URBAN SOLID WASTE (BRAZIL)

Determine the potential existing throughout the State of São Paulo to generate energy using urban solid waste; as well as the identification, technical, economic and environmental analysis of existing technologies; and the definition of the business model for the use of urban solid waste.



FEASIBILITY STUDIES

FEASIBILITY STUDY, DETAILED DESIGN & WORKS SUPERVISION OF THE CONSTRUCTION OF A WtE FACILITY IN MILA (ALGERIA)

A feasibility study for waste management in the province; as well as the detailed design of the preferred solution; and the works supervision of the waste infrastructures.



FEASIBILITY STUDY & BASIC DESIGN OF A WTE PLANT IN BOGOTÁ (COLOMBIA)

Contributing to the development of a solid waste management system to enable the implementation of a Waste to Energy project for electricity generation in the city of Bogotá.



FEASIBILITY STUDY FOR THE DEVELOPMENT OF AN INTEGRATED SOLID WASTE MANAGEMENT SYSTEM (BRUNEI DARUSSALAM)



A feasibility study for the design of a national system for integrated waste management. The resulting scenario focuses on material and energy recovery through the introduction of source segregation of paper-cardboard and packaging waste as well as the construction of a Waste-to-Energy plant (WtE).

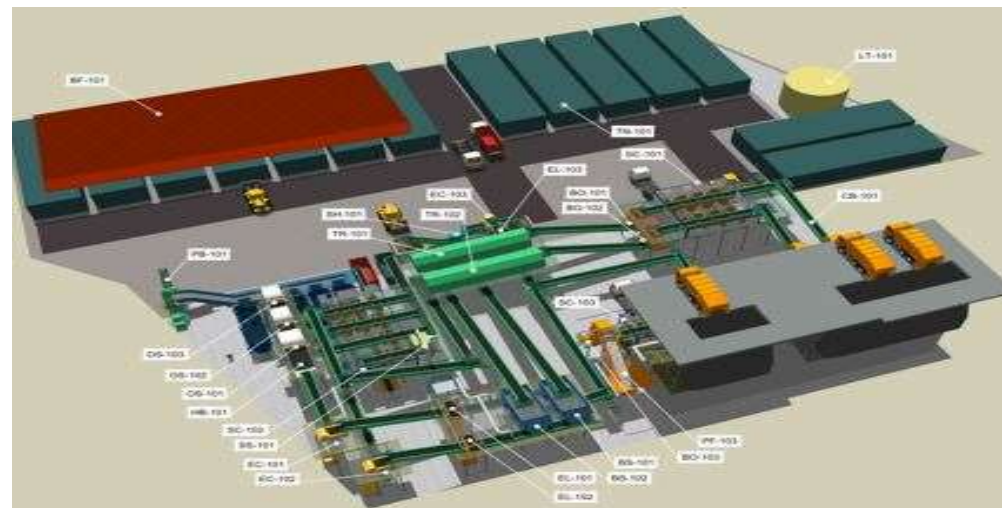
DESIGN OF AN ORGANIC WASTE MBT PLANT IN MEXICO

Supporting the client in the preparation of the basic design and BoQ to bid for the DBO tender process launched by the Municipality of Mexico City.



SOLID WASTE TREATMENT PLANT IN LEBANON

The design works for a Solid Waste MBT Plant in Lebanon. Specifically, the treatment of separately collected Residual Municipal Waste (dry waste and wet waste).



DESIGN OF SOLID WASTE TREATMENT AND ELIMINATION FACILITIES IN UK, IRELAND AND POLAND



Detailed Engineering Design of WtE plants for Hitachi Zosen Innova in UK, Ireland and Poland.

IDOM has been collaborating by contributing solutions to the problem of waste generation.

OWNER'S ENGINEER (PMC) & WORKS SUPERVISION OF SOLID WASTE INFRASTRUCTURE

DESIGN BUILD ENGINEER OF THE AMMAN SOLID WASTE MANAGEMENT PROJECT IN JORDAN

Support Greater Amman Municipality (GAM) during design, tendering and supervision of supply and contract works at Al Ghabawi landfill.



OWNER'S ENGINEER FOR THE CONSTRUCTION OF MBT AND WtE PLANTS IN GIPUZKOA PROVINCE (SPAIN)

Ensure proper procurement, design and construction of Solid Waste Treatment facilities.



TECHNICAL ASSISTANCE - UPGRADING SOLID WASTE INFRASTRUCTURES IN **NORTHERN CYPRUS**

Design review and work supervision of the new cell at the Güngör/Koutsoventis landfill.
 Work supervision of a system for the collection, storage and disposal by incineration of Animal By Products.



SUPERVISION - CONSTRUCTION OF THE SUBOTICA REGIONAL WASTE MANAGEMENT CENTRE & HAZARDOUS WASTE MANAGEMENT PLAN IN **SERBIA**

Contributing to achieving the National Waste Management Strategy 2010-2019 of the Republic of Serbia and EU Directives on Waste Management and Environmental Protection.



WORKS SUPERVISION - WASTE MANAGEMENT CENTRES IN **CANARY ISLANDS (SPAIN)**

Design review of the new landfill cells, technical assistance, work supervision services and provision of occupational health & safety services for the refurbishment of the Environmental Complexes of “Salto del Negro” and “Juan Grande”, in Las Palmas (Spain).

SALTO DEL NEGRO



JUAN GRANDE



CLIMATE CHANGE

“It is not the strongest of the species that survives, nor the most intelligent that survives. It is the one that is the most adaptable to change”

[Charles Darwin]

Climate Change forms part of the political agenda of most governments today. The principal solution to the problem is the control and reduction of greenhouse gas emissions and this is implemented through the Emissions Trading Market.

The legal, regulatory, scientific and technical framework in the fight against Climate Change is constantly evolving, and its real and effective implantation is proving to be complex. Consequently, institutions and companies often require the specialist experts support that IDOM can offer.



SERVICES AND CAPABILITIES

> Climate Change Adaptation

> Climate Change Mitigation

> Life Cycle Assessment (LCA)

CLIENTS

> Public Sector

European Union (EU)

World Bank (WB)

Inter-American Development Bank (IDB)

UNDP

Nordic Development Bank (NDB)

IHOBE

Ciudad del Saber de Panamá

EMERGING AND SUSTAINABLE CITIES PROGRAM (ICES)

Collaborating with the Inter-American Development Bank (IDB), within the Emerging and Sustainable Cities Program (ESC).

Land Use and Urban Planning; Housing and urban inequality; Mobility and Transport; Protection and enhancement of natural resources; Modern and efficient management; Territorial governance.



CONSULTING AND TECHNICAL ASSISTANCE - THE DEVELOPMENT OF ADAPTATIVE CAPACITY ON CLIMATE CHANGE FOR TRANSPORT SECTOR IN NICARAGUA

Support to the Ministry of Transport and Infrastructure to strengthen local capacities in the area of Climate Change.

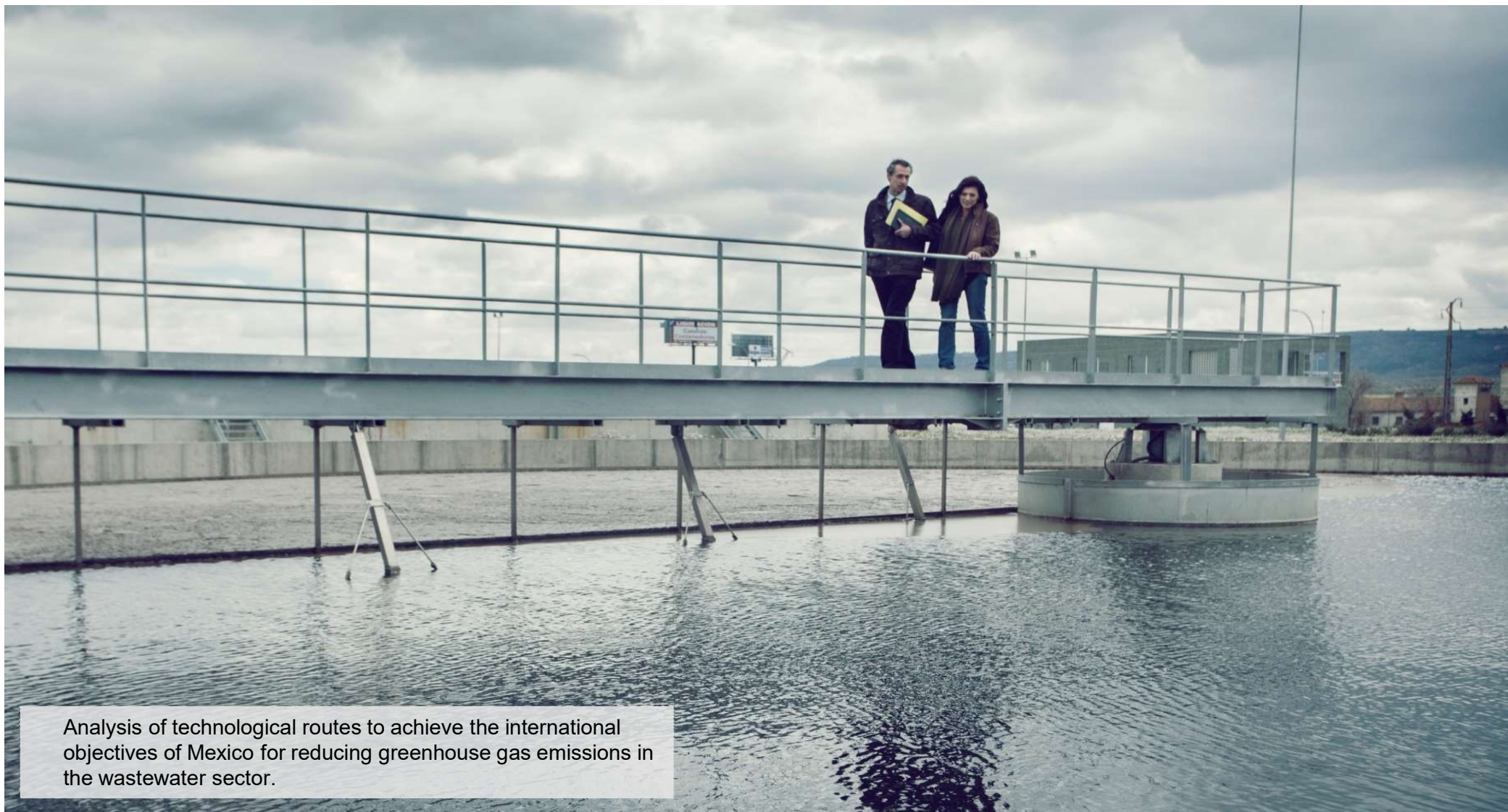
Including the generation of climate scenarios, the adaptation of road construction regulations and the development of 30 adaptation projects at critical points.



CONSULTANCY SERVICES - CAPACITY DEVELOPMENT PROGRAMME UNDER THE CLIMATE CHANGE ADAPTATION COMPONENT IN MOZAMBIQUE

Promote the adaptation to climate change of the infrastructure of water management in the coastal cities of Beira and Nacala.

CONSULTANCY TO SUPPORT THE DEVELOPMENT OF INSTRUMENTATION ROUTES FOR NATIONALLY DETERMINED CONTRIBUTIONS IN MITIGATION OF GASES AND GREENHOUSE COMPOUNDS (GYCEI) FROM THE WASTEWATER SECTOR IN MEXICO



Analysis of technological routes to achieve the international objectives of Mexico for reducing greenhouse gas emissions in the wastewater sector.

**CONSULTANCY SERVICES TO DEVELOP BASELINE AND GUIDELINE CONSTRUCTION FOR THE INDUSTRIAL SECTOR
NAMA PROJECT: TRANSPORTATION AND LOGISTICS OPTIMIZATION FOR THE INDUSTRY - LOW CARBON RESILIENT
DEVELOPMENT PROGRAM, LCRD (COLOMBIA)**

**CONSULTANCY SERVICES TO ESTABLISH A GREEN HOUSE GAS (GHG) MITIGATION SCENARIO AND A BASELINE OF THE
URBAN AND TERRITORIAL COMPONENTS OF THE NAMA HABITAT - LOW CARBON RESILIENT DEVELOPMENT PROGRAM,
LCRD (COLOMBIA)**

The goal of these projects in Colombia is to reduce GHG emissions, through comprehensive and sustainable land planning; including interventions that guarantee the recovery of degraded areas, the resettlement of population at risk and the provision of quality public spaces with criteria of climate change and sustainability that lead to the resilience of communities.



LOW CARBON BUSINESS ACTION IN MEXICO & BRAZIL



Start-up businesses based on technologies that reduce CO₂ emissions in the energy sector (energy efficiency) and waste (waste management).



EXTERNAL QUALITY ASSURANCE AUDIT (QA) OF THE SPANISH INVENTORY SYSTEM CORRESPONDING TO THE REPORTING YEARS 2018, 2019, 2020 & 2021 (SPAIN)

The purpose of this Audit Plan is to organize and implement QA activities which ensure that the inventory serves the original objectives and allows for improvement

STUDY ON THE IDENTIFICATION AND EVALUATION OF POSSIBLE EFFECTS & ENVIRONMENTAL IMPACTS PRODUCED BY THE GENERATION OF NUCLEAR ENERGY IN CHILE

Advising on the identification and evaluation of the main effects and environmental impacts of the generation of nuclear power, for each of the fuel stages. The life cycle analysis was developed following ISO 14040: three strategically selected nuclear generation technologies, comparing the results with other types of energy generation (wind, hydropower, combined cycle, coal...).



TECHNICAL ASSISTANCE - AN ANALYSIS OF THE COMPARATIVE LIFE CYCLE OF DOMESTIC AND COMMERCIAL WASTE MANAGEMENT OF THE PROVINCE OF GIPUZKOA (SPAIN)



The purpose of the study is to develop the Life Cycle Assessment (LCA) comparative of the current Waste Management in Gipuzkoa and the management, once the new Environmental Complex of Gipuzkoa.

Phase 1 (CMG1) has been launched. Mainly, it seeks to understand the environmental implications of the modification of the municipal waste management system in Gipuzkoa. It is proposed to create a tool that allows environmental monitoring of CMG1 over the years, with the aim of identifying possible improvements and critical points.

CLEAN ENERGIES

“No army can withstand the strength of an idea whose time has come”

[Victor Hugo]

There is no doubt that the time has come for clean energy. The combination of political and planning support, financial support through Feed In Tariffs and technical solutions available mean that clean energy schemes are now real alternatives to other commercial energy generation facilities.

For several years now, IDOM has been designing and developing facilities for conventional energy production. This experience allows us to offer important knowledge that is usable in the emerging field of clean energy, in its many and increasingly diverse aspects.



SERVICES AND CAPABILITIES

- > **Energy:** Wind \ Off-shore Wind \ Small wind \ PV Solar \ Solar thermoelectric \ Hydroelectric \ Bioethanol \ Biodiesel \ Biomass-Waste \ Biogas
- > **Products:** Sector plans \ Feasibility \ Foundation assessments \ basic construction projects \ Environmental Impact Studies and Environmental Monitoring Programmes \ Site Management \ Project Management \ Technical Assistance grants processing backup \
- > **Research and development:** Second generation biofuels \ Hydro – wind hybrid Energy \ Tidal energy

CLIENTS

> **Public Sector**

European Union (EU) - World Bank (WB) - Inter-American Development Bank (IDB) - European Bank for Reconstruction and Development (EBRD) - Asian Development Bank (ADB) \ CENER – EVE – IHOBE - SOGAMA

> **Private Sector**

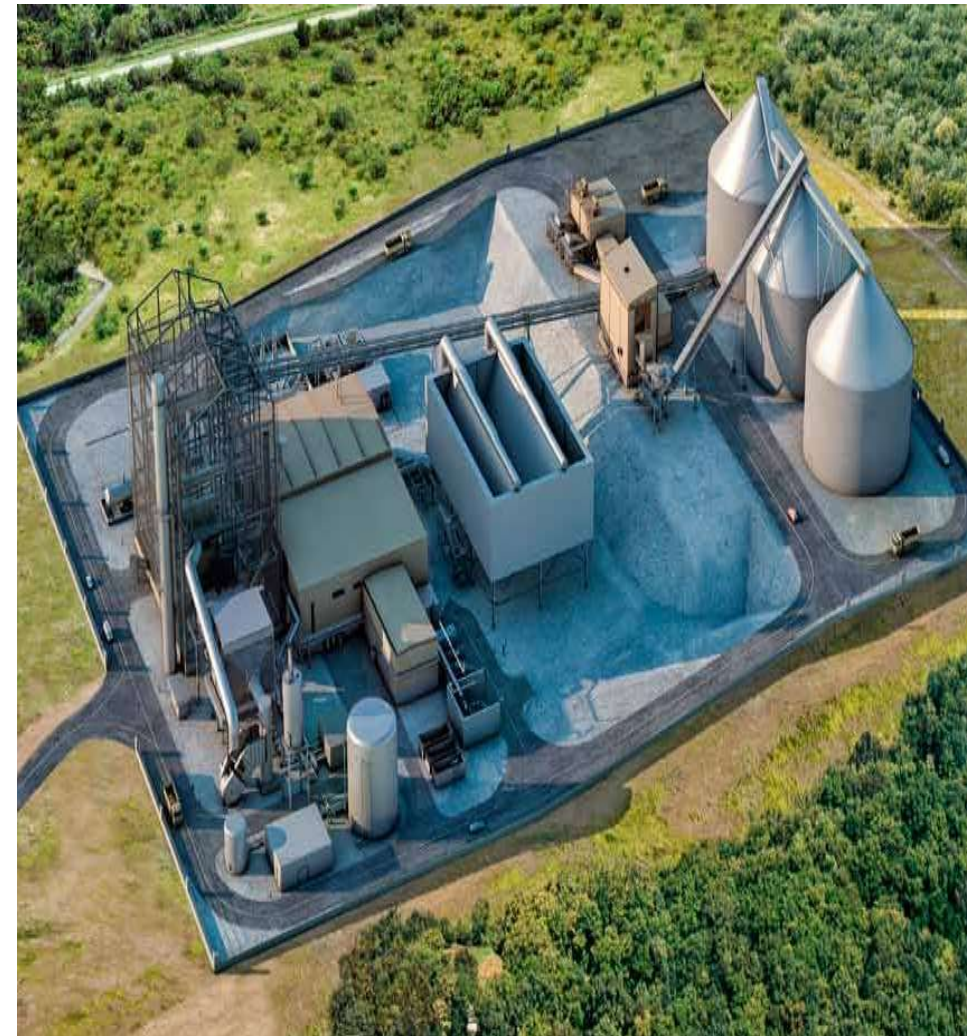
IBERDROLA – Gamesa – Isolux – Abener - AEC Engineering - Bio oils - Canon Power - Capital Energy – Ceowind – CESPAs – DERSA - Diesel Energy – Endesa – Eurovento - FCC Medio Ambiente - NEG Micon - NEK Eólica - Neo Energía - Ros Roca

TECHNICAL COOPERATION FOR ENERGY & ENVIRONMENT IN INDIA



40 MW BIOMASS PLANTS IN FORT ST JAMES AND MERRITT (CANADA)

Engineering Services for DALKIA BIOMASS PLANTS Merritt Green Energy & Fort St. James Green Energy (40MW each)



ASSESSMENT - ENERGY EFFICIENCY POTENTIAL AND DEMAND MANAGEMENT IN CENTRAL AMERICA (Panama, Costa Rica and Nicaragua)



RENEWABLE ENERGIES IN MEXICO

Developing a management and tracking platform (Ministry of Energy) for procedures, to facilitate the process of Renewable Energy projects in Mexico.



CRESCENT DUNES SOLAR ENERGY PROJECT IN NEVADA (EEUU)

The complete basic and detailed engineering of the power block and molten salts system, excluding the receiver itself; as well as civil and electrical design for the heliostats solar field. IDOM is providing technical assistance for purchasing equipment and engineering assistance on site.



HIGH-VOLTAGE DIRECT CURRENT (HVDC) TRANSMISSION BETWEEN ETHIOPIA AND KENYA

IDOM has developed the detailed engineering: converter stations, interconnections and expansion of existing substations.

The 6 GW mega-hydroelectric power stations under construction on the Blue Nile in Ethiopia will greatly alleviate shortages of power in the country.

Kenya will also benefit from this Herculean work, thanks to an overhead high voltage electrical connection, stretching over 1,000 km, allowing electricity supply from Ethiopia.



NATURAL CAPITAL

"If you serve Nature it will serve you"

[Confucius]

IDOM develops projects and studies on the Natural Environment, incorporating and applying key concepts for the modern management and rational use of natural resources:

- Sustainable Development, as the only viable approach in the ongoing conflict binomial Conservation versus Development
- Habitats, ecosystems and biodiversity, and an integrated approach, considering Natural Environment as a whole, rather than a set of isolated elements



SERVICES AND CAPABILITIES

- > **Studies of the physical environment**
- > **Engineering of the physical and bioengineering**
- > **Sustainable development and natural resource management**

CLIENTS

> **Public Sector**

European Union (EU) - Ente Vasco de la Energía (EVE) – AENA - Ministerio de Agricultura, Pesca y Alimentación - Ministerio de Fomento

> **Private Sector**

CESPA - Gamesa Promocion Eólica - Barking Riverside Limited - Barratt Homes - Huse Solar – Pavasal - Red Eléctrica Española - Redrow Homes - Grupo Stirling - Talgo



Financial and technical monitoring and control of the Life projects approved for Spain and Portugal. The Life Programme embodies European policy regarding Nature, Biodiversity, the Environment (waste, water, noise, the urban environment, eco-innovation, etc.), Climate Change and Environmental Information.

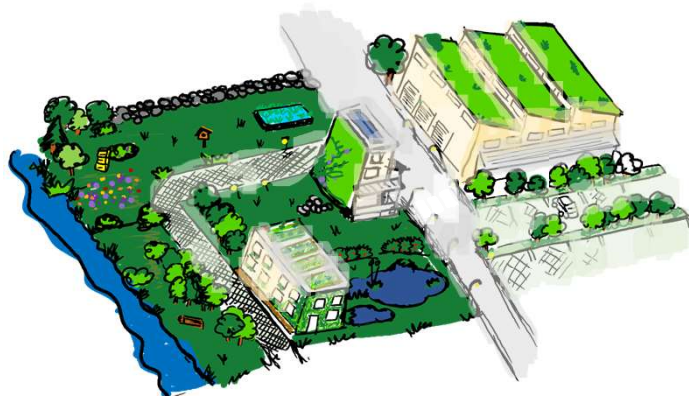
VULNERABILITY TO CLIMATE CHANGE OF THE NATURA 2000 NETWORK IN THE BASQUE COUNTRY IN SPAIN

Supporting the Basque Government in the evaluation the risks of climate change of the protected natural spaces within the Natura 2000 Network.

10 innovative management measures were proposed to increase the resilience of these spaces.



APPROXIMATION OF THE PROTECTION OF BIODIVERSITY IN THE ENVIRONMENTAL MANAGEMENT SYSTEMS OF ENTERPRISES IN SPAIN



A new way of understanding the environment; suggestions and recommendations for measures to integrate biodiversity were proposed and presented in a visual and interactive way.

OTHERS: CONTAMINATED SOILS

SAFETY CELL FOR HAZARDOUS WASTE IN BARAKALDO (SPAIN)

The largest environmental infrastructure and cost in the Basque Country. It was co-financed with the European Cohesion funds. In the cell are safely confined, 340,000 m³ of lands from contaminated sites with uncontrolled discharges generated as a result of the manufacture of the pesticide lindane and other industrial pollutants. The cell is located in Bilbao Metropolitan area. IDOM collaborated with IHOBE since the beginning in all the steps of the project.



FORMER ENGINEERING WORKS AT DUSTON, NORTHAMPTON (UK)

Site investigation, risk assessment and remediation supervision of a former Engineering works which manufactured roller bearings. IDOM-Merebrook advised the purchasers in respect of the sale and purchase terms and undertook further and better site investigations and risk assessments to allow the scope of remedial action to be decided. After purchase, IDOM-Merebrook specified a site remediation plan and obtained agreement from regulatory authorities. A contract was let and IDOM-Merebrook supervised the remediation.



OTHERS: GREEN ECONOMY

ENERGY EFFICIENCY, ARCHITECTURE DESIGN AND PROJECT MANAGEMENT OF OAMI'S (Office for the Harmonization of the EU Internal Market, European Institution) BUILDINGS-Technical assistance services for the definition and development of the EUIPO environmental strategy within the framework of the provision of external services for project management, consultancy and technical assistance in the field of building management in **SPAIN**

Commissioned by OAMI for different design, engineering and project management services, in order to condition and set up OAMI buildings, so they can obtain or keep different certifications: LEED (energy efficiency), BREEAM (sustainability), EMAS (eco-management), OSHAS, ISO14001, ISO 9001, among others.



TECHNICAL ASSISTANCE TO SUPPORT THE DEVELOPMENT OF GREEN ECONOMY IN **BELARUS**

Support and strengthen the Ministry of Natural Resources and Environmental Protection, in developing and implementing green economy mechanisms, as well as in the implementation of the actions proposed in the Program.

Program of Actions. Further enhancing cooperation between EU and Belarus.



OTHERS: CONSULTANCY

ENVIRONMENTAL CONSULTING SERVICES FOR THE PRECONSTRUCTION PHASE OF TWO PLANTS IN BOUFARIK AND DJELFA (ALGERIA)

Environmental consulting services for the environmental authorization of the plant, green Procurement implementation, Best Available techniques implementation and stakeholders engagement.



ENVIRONMENTAL CONSULTING SERVICES FOR THE PRECONSTRUCTION PHASE OF A NEW INTEGRATED STEEL PLANT IN **BELLARA (ALGERIA)**

Preparation of the Environmental Impact Assessment Report (EIA) and Study of Hazards (SH) according to Algerian Law, European Law and International Good Practices.

Inclusion of the environmental requirements in the Invitation to Tender for the EPC Contractors (Green Procurement conditions and Best Available Techniques –BATs- for the sector).

Technical assistance to the Client, during the environmental permitting process of the Complex, including preparation of environmental presentations for the different key authorities.



PREFEASIBILITY STUDY GARA DJEBILET MINE PROJECT. ENVIRONMENTAL ASPECTS. (ALGERIA)

Prefeasibility Study for the development of Gara Djebilet iron ore mine in Algeria.
Study of environmental and social aspects and impact mitigation.
Assessment of water resources and impact mitigation.

ENVIRONMENTAL AUTHORIZATIONS FOR THE BALBOA REFINERY IN SPAIN



Balboa is a root-grass refinery project, focused on the Spanish and European market needs. The project adopted all the best available techniques (BATs) concerning environmental matters.

The scope of environmental services provided by IDOM included the preparation of all technical documents needed to deal with the environmental permitting process:

- Environmental Impact Assessment (EIA) report.
- Integrated Pollution and Prevention Control (IPPC) project.
- Land Management Compliance reports.

OTHERS: WATER

CAPACITY FOR OPERATING SYSTEMS SANITATION DEVELOPMENT FOR FIVE CITIES IN INDONESIA

Technical assistance to develop capacity and organization of the agencies that will provide the services of management and operation of the water sanitation and purification of 5 cities in Indonesia.



SUSTAINABLE URBAN RENEWAL PROGRAMME AND INCLUSIVE UPGRADING OF INFORMAL SETTLEMENTS IN LUANDA (ANGOLA)

>Preparation of Urban Development Policies and Renewal Plans for informal and formal settlements for eleven districts in Luanda.

> Fieldwork and analysis of the present situation; provision of strategic guidelines for sustainable planning with a specific focus on urban renewal and inclusive growth, climate change adaptation and sustainable.



IDOM Environment

THANK YOU FOR
YOUR ATTENTION.

Please do not hesitate to
contact us, for further
information.

CONTACT

www.idom.com
ambiente@idom.com

