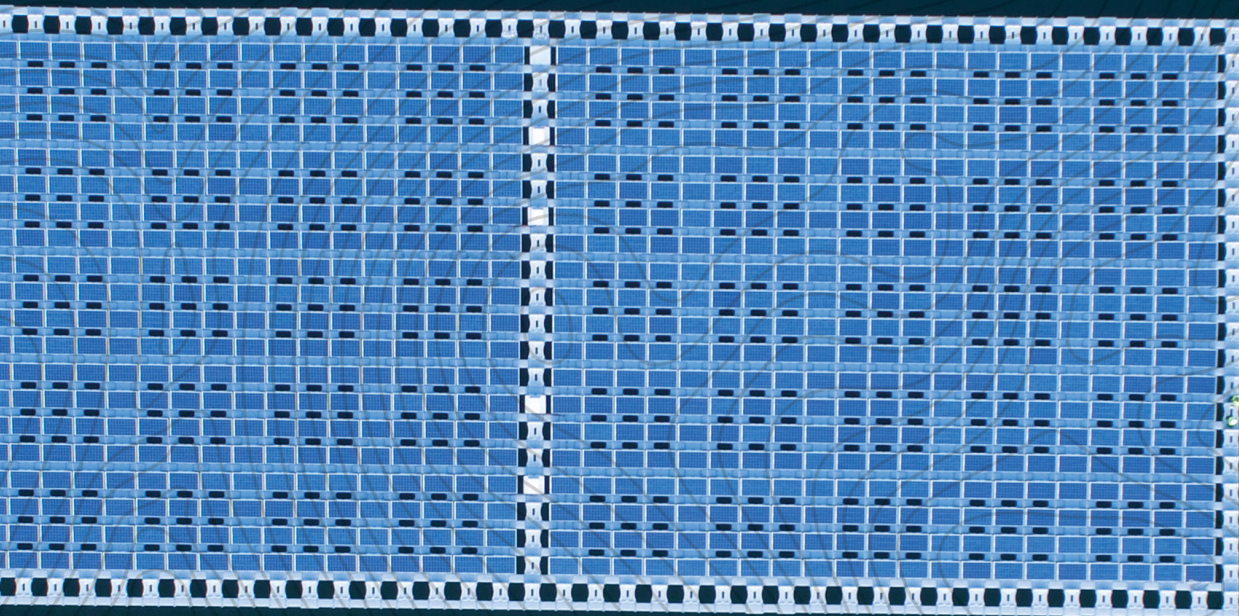




EDP  
INTERNACIONAL

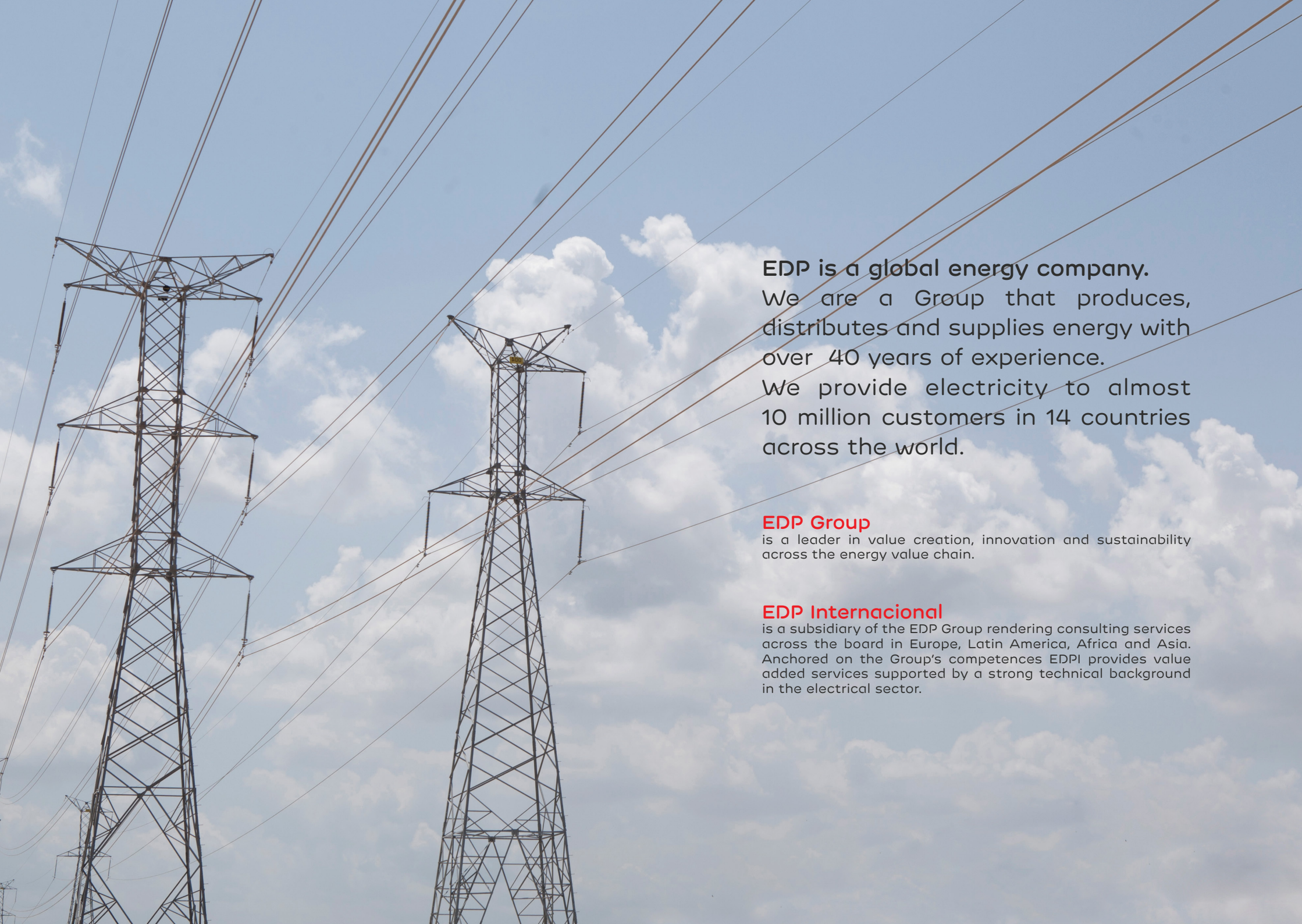




EDP  
GROUP

Floating Photovoltaic Solar Power Plant installed  
by EDP on the Alto Rabagão Dam reservoir, Portugal





**EDP is a global energy company.**

We are a Group that produces, distributes and supplies energy with over 40 years of experience.

We provide electricity to almost 10 million customers in 14 countries across the world.


**EDP Group**

is a leader in value creation, innovation and sustainability across the energy value chain.

**EDP Internacional**

is a subsidiary of the EDP Group rendering consulting services across the board in Europe, Latin America, Africa and Asia. Anchored on the Group's competences EDPI provides value added services supported by a strong technical background in the electrical sector.





EDP is a multinational, vertically integrated utility company

- / 1st class Iberian integrated energy business
- / Strong business in Brazil
- / Worldwide leader in green and competitive technology

EDP's Bemposta Hydro Power Plant, Douro, Portugal

EDP was created in 1976 originally incorporated as a state-owned company and is currently a leading integrated utility with global footprint.

EDP has evolved substantially over the last years, positively responding to the energy market's challenges and opportunities.

Installed capacity

**27** GW

Electricity distributed

**78,788** GWh

Distribution grid

**70** TWh

Customers

**~10** Million



**We are at the forefront of innovation and renewable energies.**

**We produce today the energy of tomorrow.**

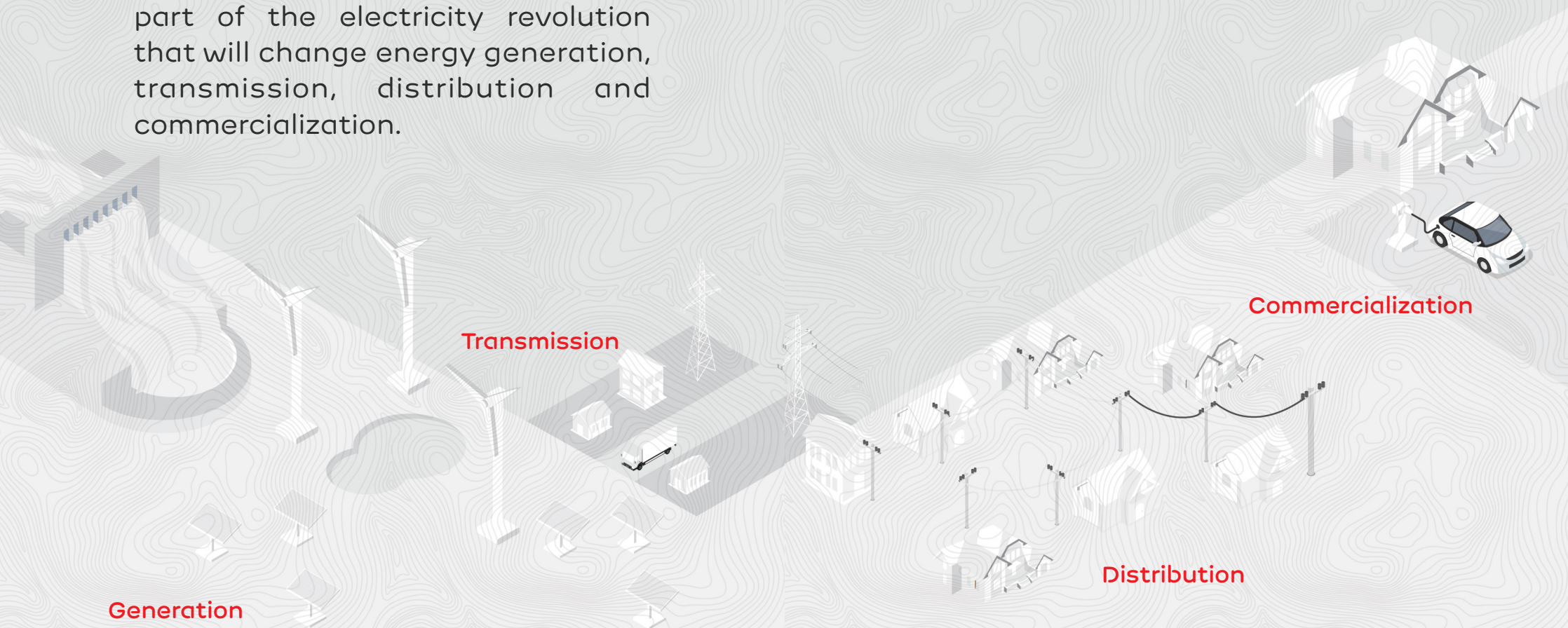
The EDP Group – as a leading integrated utility with experience across the value-chain in key markets (Portugal, Spain, Brazil) - is part of the electricity revolution that will change energy generation, transmission, distribution and commercialization.

We turn nature's energy our own and we bring our customers an essential resource for their lives.

EDP is developing new solar and hydro power projects in several locations and in different countries around the world.

The path of decarbonization implicates a deep change to the economic model based on fossil fuels, a strong bet in energy efficiency, electrification based in renewables and the promotion of innovation.

EDP's aim is to become a world leader in clean generation with distinctive low risk profile.

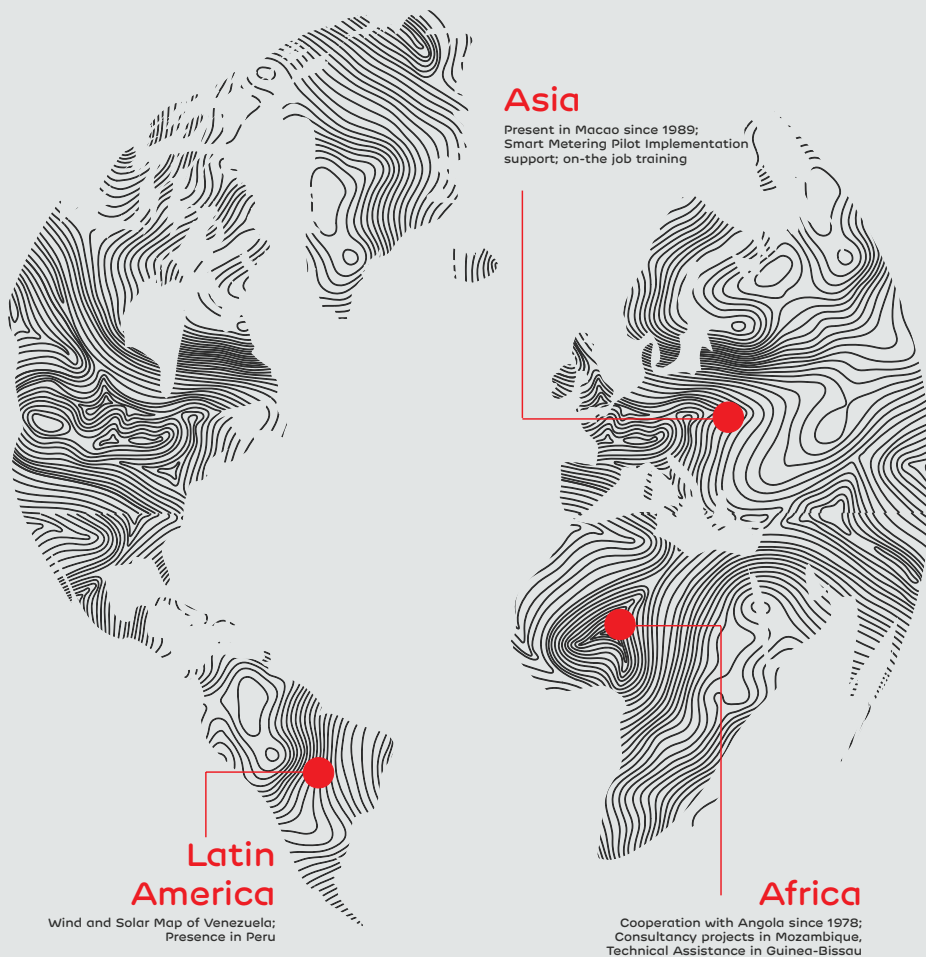




A photograph of a wind farm with several large white wind turbines. The background is a clear blue sky. Overlaid on the entire image is a faint, light blue topographic map pattern consisting of concentric, wavy lines. The text 'EDP INTERNACIONAL' is positioned on the right side of the image.

**EDP  
INTERNACIONAL**





EDP Internacional operates in international markets developing diversified projects of consultancy, strategic advisory for utility companies and training for energy sector clients.

Our projects have significantly contributed to development of the power sector in African countries such as Angola, Cape Verde, São Tomé & Príncipe, Kenya, Madagascar and Mozambique.

EDP Internacional has been present in Macao for almost three decades with success in supporting the modernization of the generation and distribution of energy that continues to grow in the region.

EDP Internacional provides value added services with a strong technical track record in the electrical sector and has a global experience in project Development.

We have technical teams and managers with an in-depth knowledge of the key challenges the energy sector faces both in developed economies and in emerging markets.

EDP Internacional has a long experience helping to develop power systems in several countries in a variety of topics, namely

/ Engineering Project Management (power plants, distribution lines and grids) and Asset Management operation

/ Strategic tools adapted to companies and governments operating in the power sector

## All our projects have 3 common goals

/ Development of the electric system

/ Increased efficiency and results

/ Ensure the continued involvement of local communities



The energy sector is currently undergoing major transformations.

In this changing environment EDP Internacional presents a solid experience and an extensive know-how across the power sector value chain that can be of great value.

We are available and ready to satisfy the expectations of our clients and to create successful partnerships.

## 1/ Strategy and Planning

- / Master plans
- / Strategic plans (generation and distribution)
- / Planning of systems and network design
- / Definition of optimal generation plans (renewable and fossil)



## 2/ Studies, projects and supervision works

- / Project development (across different phases)
- / Supervision of power plant (thermal and hydro) construction works
- / Analysis and validation of existing studies
- / Preparation and review of technical documents
- / Review of feasibility studies
- / Studies on renewables
- / Studies on integration of renewable energy
- / Studies on innovative energy solutions (wind, solar, operation of smart grids, storage, electric mobility)
- / Control and automation
- / Processes design
- / Technical assistance for restructuring / organizations of utilities
- / Studies on efficiency and loss-reduction
- / Smart grids
- / Studies for the expansion of generation systems
- / Studies for network expansion
- / Studies about technical loss-reduction



### 3/ Operation & maintenance

- / O&M services for generation assets
- / O&M services for distribution assets
- / Supervision
- / Control and automation
- / Processes design

### 4/ Training and transfer of knowledge

- / Capacity building for technicians and managers
- / On-the-job-training
- / Sharing of strategic knowledge on the future of energy (RE, innovation, smart grids, storage)
- / Support to energy sector companies in critical issues
- / Technical advisory for international investors
- / Consultancy for international organizations, development agencies and public institutions regarding key issues of the energy agenda
- / Rural electrification projects and off-grid decentralized solutions



Lajeado Hydro Power Plant, Brazil



### 5/ Renewable energy

- / Renewable energy atlas
- / Energy resources mapping (wind, solar, hydro, biomass)
- / Energy potential assessment for all renewable technologies
- / Integration of renewable energy in the grid

### 6/ Laboratories

- / Regulation studies (regulated or liberalized markets)
- / HV/MV/LV cable testing
- / Transformers (oil analysis; oil reclamation ; remaining lifetime estimation)
- / Tests for equipment and smart metering systems
- / Suppliers certification and auditing
- / Energy consulting (studies on efficiency and loss-reduction)









Avenida 24 de Julho, 12  
1249-300 Lisboa  
Portugal

[edpinternacional@edp.pt](mailto:edpinternacional@edp.pt)

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