



water
infrastructure

ENGECORPS



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ENGEORPS is a consulting engineering company ready to respond to all the challenges of the country's growth and the globalization of the economy. Interested in maintaining itself well placed in a globalized scenario, ENGEORPS joins operational and technical excellences, world class and competitive costs.

Founded in March 1990, its multidisciplinary staff, with over 200 professionals, have been working together for over four decades, both in the domestic and in the international markets. Over this period, knowledge and experience have been gathered in projects of different complexities, in the various sectors of consulting engineering in which it operates, always standing out for quality and innovative solutions, which confirms its position as one of the leaders in quality and excellence within the Brazilian market. Similar policy is practiced by the TYPASA Group and that justifies its inclusion in that group in August 2009.

ENGEORPS holds back five offices in Brazil: Central Office: Alphaville/ Barueri - SP; Belo Horizonte (MG), Brasilia (DF), Rio de Janeiro (RJ) and Sao Paulo (SP) and two overseas offices: the Dominican Republic and Peru.

main activities

- Water Resources & Environment
- Management & Supervision
- Environmental Sanitation
- Water Infrastructure: Dams, dikes, tunnels, irrigation perimeters, physical, structural and computational hydraulic models, canals, pressure tunnels, pumping stations, hydraulic circuits of hydroelectric plants and pump house, hydraulic circuits of navigation locks, water intakes, water ducts, galleries, aqueducts and flood control reservoirs.
- Energy
- Mining
- Transportation

water infrastructure

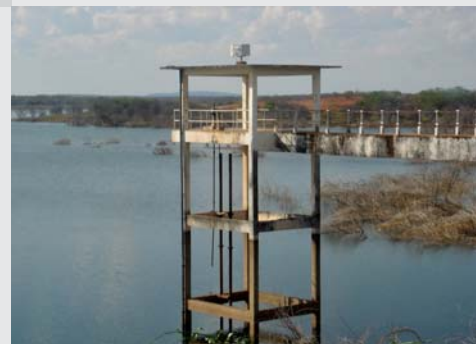
The Water Infrastructure area involves a broad set of interventions that seek, among other things, the multiple use of the water resources, the promotion of socioeconomic development of regions and areas of insertion of the works, the planning, improvement and rectification of operational conditions and flow of water bodies, in the light of existing environmental and technical constraints.

ENGEORPS has been acting in this segment throughout its 20 years, highlighting the MAIN PROJECTS listed below.

water infrastructure | main PROJECTS

- Recognition studies and multiple utilization of natural resources of the Terra Nova project, an integrating part of the São Francisco river watershed and the northeastern semi-arid region (PE), Sustainable Development Program. *CODEVASF*
- Feasibility studies for the São Francisco river basin transposition to the semi-arid northern region and basic project for the first stretch of works (Cabrobó-Jati), in Ceará and Pernambuco. *FUNCATE*
- Feasibility studies for the integrated usage of Pernambuco hinterland project of water resources and elaboration of the initial stretch basic project, including the complementation of the environmental studies for the Pernambuco hinterland channel, situated in the states of Bahia and Pernambuco. *CODEVASF*
- Feasibility studies and regional insertion for the project of the Tocantins river basin transposition to the São Francisco river basin, in the states of Tocantins and Bahia. *FUNCATE*
- Feasibility studies for the multiple use of Xingó's natural resources system, in the states of Alagoas, Sergipe and Bahia. *CODEVASF*
- Final projects for the implementing the São Francisco river integration to the northern northeastern hydrographic watersheds project – Lot A (Cabrobó-Jati), in the states of Pernambuco and Ceará. *Ministry of National Integration*
- Final project, adaptation of environmental studies and support to the supervision and inspection of the works destined to the multiple use of Jequitaiá (MG) Dam. *CODEVASF*
- Engineering studies and basic project for Stretch VI of the São Francisco river integration to the northern northeastern hydrographic watersheds project, in the states of Pernambuco and Ceará. *Ministry of National Integration*

multiple uses & interconnected reservoirs systems





Irrigation perimeters

- Feasibility studies and basic project for the reservoirs of Canoas I and II (PR/SP) HPPs - right border irrigation perimeters. *CESP*
- South and North Pontal irrigation perimeters assessment, targeting their inclusion in the Public-Private Partnerships Program (PPPs), PE. *IFC / World Bank*
- Environmental studies for the Jequitai hydro agricultural project, MG. *CODEVASF*



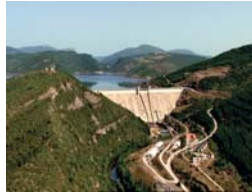
protection of rivers, canals & reservoirs

- Study for controlling erosion at the banks of Porto Primavera hydropower plant reservoir between the municipalities of Panorama and Pauliceia, SP. *CESP*
- Engineering project for protective rock fill, capstones and containment dikes at the right bank of São Francisco river – Cotinguiba/Pindoba, AL/SE. *CODEVASF*
- Alternative detailing studies and project for recovering the embankments of Henry Borden (SP) power plant's overflow channel. *EMAE*





a Global consulting group



transportation

industrial parks
shopping centres
office buildings & business parks
land development
residential complex & sports complex
universities & educational centres
hospitals & health care centres

environment & water quality

river basin management
inventory & analysis of irrigated land
irrigation networks
water supply & sewage networks
water treatment & purification
desalination plants
dams & reservoirs | hydroelectric power plants

renewable energy

TYPSA Engineers, Consultants and Architects is a consulting engineering firm based in Spain with more than 40 years of experience successfully executing major infrastructure projects in Europe, the Americas, Africa and the Middle East to improve and sustain enhanced living conditions around the world.

Founded in 1966, TYPSA is now one of the largest Spanish consultancy companies in its field, and a national leader in the exporting of consultancy services in civil engineering, according to the *Engineering News Record* (ENR).

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roads & motorways
railways & tramays | metro systems
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architecture, building engineering & urban planning

environmental engineering
forestry engineering
solid & industrial waste treatment
water quality monitoring (labs)

water management & hydraulic engineering

wind farms | thermo-solar & photovoltaic |
farms hydroelectricity | biomass



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