

# Sea water desalination plant

> Build a sea water desalination plant to obtain drinking water that can also be usable for irrigation



#### LOCATION

· Coastal area of Senegal



### **STUDIES**

- · Feasibility: carried out
- Environmental and Social Impact: to be finalized



### ESTIMATED COST

· 80 million USS



#### **ACTORS**

- Ministry of Agriculture and Rural Development
- · Ministry of Water Resources







- · Construction of an outlet into the sea
- Set up a raw water pumping station and a pre-treatment unit (pre-chlorination, floatation, clarification)
- Construction of storage and sludge drying infrastructure (storage and dehydration)
- Set up a reverse osmosis unit and a post-treatment unit (re-mineralization and final disinfection)
- Install a pipe to transfer water to the existing reservoirs
- Construction of operation buildings and a pipe for discharging brine
- Establish a system for connection from SENELEC's 90 KV loop (underground cable)
- Establish an autonomous energy generation plant

# SPECIFIC OBJECTIVES

- Contribute to meeting the drinking water needs of the population of Dakar by 2025
- Ensure an additional production of 50 000 m³/day by 2017 for the region de Dakar
- Make electricity available to about 200 000 additional people in Dakar by 2017
- Improve the quality of water distributed in the Dakar suburbs
- Reduce diseases linked to the water quality and improve the living conditions of the populations

## OVERVIEW OF THE SECTOR

- Inadequate satisfaction of the populations' drinking water needs
- Need to increase and diversify the drinking water sources
- High demand for salt export on the international market

