THE SOUTHEAST OF GRAN CANARIA: AN IDEAL SITE FOR MICROALGAE CULTIVATION

- <100 mm year \(^{-1}\) rainfall
- 18-25 °C year-long
- High quality seawater
- High microalgal biodiversity
- Favorable tax regime

MAJOR BOTTLENECKS IN MICROALGAE PRODUCTION

- Microalgal industrial activity is limited by:
  - Water supply
  - Effluent management
  - Land-use compatibility

The Techno-Industrial Area in Blue Biotechnology and Aquaculture of Pozo Izquierdo aims to solve these bottlenecks

THE TECHNO-INDUSTRIAL AREA OF POZO IZQUIERDO

- 200 ha area compatible with aquaculture (valorization of non-arable wastelands)
- Developed through three expansion phases
- 35 MM€ funding from the Regional and the Local Government

THE TECHNO-INDUSTRIAL AREA OF POZO IZQUIERDO – 1ST PHASE

- 2000 m\(^3\) h\(^{-1}\) seawater supply (water-well intakes)
- Two SWRO desalination plants (freshwater and brine availability for cultivation)
- Water treatment systems (input and output)
- Pooled infrastructure (filtering boreholes and outlet pipe) for effluents’ discharge

HIGH-TECH INCUBATOR

- Pre-industrial validation (TRL 4-7)
- Shared experimental spaces (demo site, laboratories, coworking facilities...)

1st Phase: 10 ha

2nd Phase: +40 ha

3rd Phase: +150 ha

PERSPECTIVE

The Techno-Industrial Area of Pozo Izquierdo is designed to be the first European hub specialized in Blue Biotechnology and Aquaculture, whose mission is to drive the socioeconomic development and diversification under an environmentally sustainable approach.

The Area will provide a framework for cooperation with other cultivation hubs to compare and validate algal strains’ performance and operational conditions across geographically diverse areas.

FUNDING

THE SOUTHEAST OF GRAN CANARIA: AN IDEAL SITE FOR MICROALGAE CULTIVATION

1 Instituto Tecnológico de Canarias, Pozo Izquierdo, Spain
2 Sociedad de Promoción Económica de Gran Canaria, Las Palmas de Gran Canaria, Spain

depbio@itccanarias.org; IAT@itccanarias.com