



# TRISTAN DA CUNHA

THE MOST ISOLATED INHABITED ISLAND  
IN THE WORLD

# PILOT PV SOLAR FARM



## Context

### An emblematic island steeped in the Enviroearth history

Located in the middle of the South Atlantic, the Island part of the British overseas Territory of St Helena is accessible **only by boat, after a journey of seven days from South Africa**. The nearest inhabited earth, Saint Helena Island, is 2 400 km in the northern direction. With only 9 annual maritime links with the city of Cape Town, Tristan Da Cunha is considered the most isolated inhabited island in the world.

Enviroearth is present since 2006 in Tristan Da Cunha and our engineers take turns each year to carry on the island various environmental surveillance missions and deployment of renewable energy. Due to its permanent presence, the jobs locally created and the ties with the population and local government, our company is now part of this **small community of 270 inhabitants**.

## Our missions

### Environmental monitoring

For nearly 10 years, Enviroearth is responsible for the operation and maintenance of a scientific basis for the account of a United Nations agency.

The stations are collecting data, radionuclide, infrasound and seismic measurements, monitoring of climatic and geophysical conditions (earthquakes, volcanic eruptions, tsunamis, nuclear tests ...) and integrated into a U.N worldwide monitoring network.

### Deployment of renewables

Aware of the ecological footprint of the island linked to the production of electricity from fossil fuels (diesel generators), Enviroearth conducted a study on the potential for renewable energies. A **first pilot project** was launched in 2015 thanks to the will and the **funding of the local Government**.

Enviroearth has dimensioned, supplies, organized logistics, installed and connected to the local electricity network, a **6,5KW solar photovoltaic plant**. This first step allows to collect the necessary data for future expansion of the solar farm.

In parallel, the **supply and installation of five solar water heaters** has enabled island families to reduce their gas consumption. An extension of this project is expected next year.

Engaged in the energy transition of the island, the stated objective of the local government **is to achieve 40% renewable energy by 2020**.

## Our added value

**The isolation of the island is the main difficulty.** Indeed, each project must be prepared and thought with the greatest rigor. Maintenance operations such as replacement parts or repair point failures can become real daily challenges if they are not adequately anticipated.

**Operator training is a major focus of the collaboration of Enviroearth with local actors.** Regularly trained in monitoring and maintenance of facilities, the referent local operators shall assist our engineer on site, particularly for preventive maintenance and Civil Works tasks.

**Tristan Da Cunha, Saint Helena, Easter Island, Robinson Crusoe Island (Pacific) ...** the Enviroearth engineers have gained extensive experience in very remote sites challenging strong geographical, environmental, technical, and logistics constraints.

