

CORVO (Portugal)

Fernando Ferreira

Reserva da Biosfera da Ilha do Corvo

Corvo Island - Azores

Sustainable Corvo Project

COUNTRY: Portugal

INHABITANTS: 464 (2018)

TOURISTS: 1467 (2018)

SPECIF STATUS: Core zone of the Corvo Biosphere Reserve

CORVO

FLORES

Azores, Portugal



PROJECT / ACTION

Brief description

INITIATIVE/ ACTIVITY:

Corvo Island, classified as a Biosphere Reserve by UNESCO, has undertaken a pioneering renewable energy project aimed at installing solar panels and heat pumps in all dwellings with permanent occupancy.

PARTNERS / GOVERNANCE:

- EDA – Azores Electricity company
- Regional government of the azores
- MIT Portugal
- IST - Lisbon technical institute



PROJECT / OUTPUTS

MAJOR RESULTS:

Renewable penetration of electricity production by 70%;

Reduction of primary energy consumption by 25% (calculated according to IEA methodology);

Penetration of renewables in primary energy 25% (calculated according to IEA methodology).

CHALLENGES:

Renewable energy production solutions, namely wind and solar photovoltaic;

Intelligent electric grids for optimizing the production, distribution and end use of electricity;

Energy storage systems for network regulation and quality control and for energy transfer from no-load to full-time periods (flywheels, batteries, electric vehicles);



LESSONS LEARNED

- NEGATIVE -

- Making use of endogenous sources is not without its difficulties, largely due to the irregular nature of most existing energy sources, but also to economic reason

Following this project and in order to reinforce the renewable energy component on Corvo Island, a photovoltaic park will be installed in the short term.

+ POSITIVE +

- Harnessing endogenous energy sources, which are a strong alternative to current production systems, as they reduce their dependence on external energy sources.

