New Energy Solutions Optimised for Islands

NESOI

EUROPEAN ISLANDS FACILITY

" The project contributes not only to energy sustainability but also to water resources' preservation thanks to the shade provided by solar panels which will limit evaporation "

The EU Islands Facility NESOI is pleased to introduce the clean energy projects receiving its support:

CREATOR

Floating solar power generation for cleaner water system operation on Cres-Lošinj archipelago

| Country	Island	Project promoter	Sector	Project value
CROATIA	CRES - LOŠINJ	Vodoopskrba i odvodnja Cres Lošinj (VIOCL)	Solar energy	650,000 €

What is the project about?

- Vrana lake, located on the Cres island, is the only source of fresh water in the Cres-Lošinj archipelago.
- The project studies the possibility to install floating solar panels on the lake for self consumption: the electricity produced would cover the consumption of the pumping station.

How will the EU Islands Facility NESOI support the project?

- **Pre-feasibility study**: analysis of possible technological options; analysis of regulatory, environmental, social, economic and financial constraints; analysis of available business models and project financing model options; FPV supplier market analysis; definition of steps for project implementation and risks

- **Design study**: definition of FPV powerplant (exact location, sizing, nominal panel voltage, nominal frequency); definition of optimal technological solution; general definition of conceptual project design

- **Feasibility study**: assumption book; financial modelling; economic analysis ; impact assessment on energy, social and economy sectors; assessment of existing procurement options

- **Grid impact assessment study:** existing vs planned electrical grid state, solution for grid connection, analysis of power flow and safety in affected zone

- **Environmental impact assessment study:** Definition of the required environmental permitting procedures

- **Action plan**
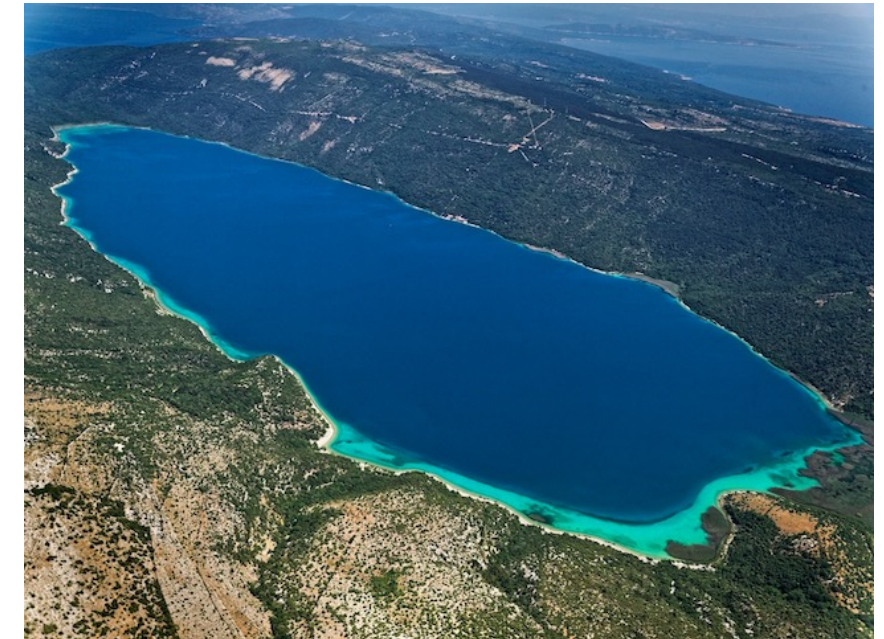
Vrana Lake where the floating solar panels would be installed

(Source: myistria.com)

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