

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

SMOSolarProcess

From municipal waste to clean Hydrogen on Cres-Lošinj Archipelago in Croatia



“ The project will allow Cres and Mali Lošinj to decrease their waste management costs by 50% and to cover 16% of their electricity consumption. ”



What is the project about?

- Within this project, a SMO pilot site will be built on the Croatian Island of Cres, consisting in a fully operational SMO unit and relevant infrastructures.
- SMO is the first energy-autonomous waste processor using exclusively solar thermal energy to transform carbon-based waste into competitively priced Clean Hydrogen, together with Carbon sequestration. Clean hydrogen is then used to generate electricity. The carbonated by-products of the process (carbon powder), will be sold to the tire and rubber industry as a replacement for fossil-based products.

How will the EU Islands Facility NESOI support the project?

- Analysis of comprehensiveness and compliance with current regulation of the permitting procedures
- Identification and analysis of existing litigations/appeals and evaluation of the associated risks
- Analysis of the soundness and coherence with current market practices
- Detailed permitting and authorizations procedures, expected budget, relevant subcontractors
- Listing of condition precedents for successive project implementation steps
- Eligibility and feasibility study for carbon certification
- Screening on EU opportunities or private financing (mapping opportunities)
- CAPEX consolidation study and identification of relevant service providers for construction phase
- Action plan and project identification of monitoring procedures
- Market study: Appropriateness, comprehensiveness and compliance with regulation and market practices
- Technical feasibility study: Technology benchmark, Levelized cost of Hydrogen, Life cycle analysis



The town of Cres (Author: Sl-Ziga)