

Cres-Lošinj

Croatia



Cres-Lošinj in a nutshell

The largest archipelago in the Adriatic



Located in the Kvarner Bay, in the northern part of the Adriatic sea 34 islands, islets, mounds and reefs

Population increases by 200% during the summer



Permanent population: 10,995
Peak during the summer months: 33,588

Well connected by boat with Krk and mainland



6.5 km to Krk
25 min by boat

Tourism is the main economic activity



Although construction has become more important in the last years

Stakeholder mapping

Civil society

Kvarner Islands (action group)
Vela Vrata (fisheries group)
The Blue World Institute (research)
Island movement (coop. platform)
Cres renters association
Terra Hub association

Business sector

Jadranka
Cresanka
Lošinj shipping-holding
Autotrans
ACI Marina
PZ Cres
PZ Loznati
Drazica Plus
Secrets of Cres

Public sector

Town of Cres
Town of Mali Lošinj
Primorje-Gorski Kotar County
REA Kvarner (Regional Energy Agency)
Regional Planning Institute
Mali Lošinj Tourist Board
Cres Tourist Board
Open University Mali Lošinj

Academia

Faculty Naval Architecture
University of Zagreb
Faculty Engineering
University of Rijeka
Frane Petrić
Elementary School - Cres
Mario Martinolić
Primary School - Mali Lošinj
Kindergarten Girice
Kindergarten Cvrčak



Energy System Description

Final Energy Consumption in 2018 [MWh]

CO₂ [tonne]

Category	Final Energy Consumption [MWh]	CO ₂ [tonne]
Electricity	59,666	9,427
Heating	54,683	2,548
Transport to & from	33,000	8,811
Transport on Island	22,862	6,440
Industry	506	135
TOTAL:	170,717	27,361

Electricity

Interconnected with mainland via Krk

Peak consumption: 26 MW

Total installed solar photovoltaic capacity of 714 kW.

Heating

Households' heating is dominated by wood and electricity:

Wood	45%
Electricity	42%
Pellets	9%
Fuel oil	4%

Transport on the island

Passenger cars fuelled by diesel and gasoline dominate road transport.

Transport to and from the island

The vessels connecting Cres-Lošinj with mainland are powered by diesel engines.

There are:

- 2 car-ferry lines (up to 17 departures in summer).
- 2 fast catamaran lines (departures once a day).

Vision

The Cres-Lošinj archipelago is smart and energy-efficient. The local community is energy literate and actively involved in the energy transition. This will enable complete decarbonisation by 2040.

Transition pathways

Electricity interconnection with mainland



Solar photovoltaic:



To provide half of electricity consumption
Installation of 22.5 MW
New spatial planning for solar PV

Buildings

- Retrofitting for energy efficiency
- Solar thermal
- Wood chips & pellets
- Air source & seawater heat pumps
- Rooftop solar photovoltaic

Road transport

- E-bike sharing system
- Electric public vehicles
- Electric buses for public transport

Maritime transport

- Electric + LNG ferries
- Electrification of small boats
- Amend criteria for grants
- Adapt legislative framework

Raise awareness among citizens

Information campaigns

Transition governance

Leaders

Island development Agency (OTRA)
Town of Cres
Town of Mali Lošinj

Coordinator

Island Development Agency (OTRA)

Clean Energy Transition

Investors

Local businesses
Citizens
Public sector

Education R&D

Academia

Heritage control

Ministry of Culture

Dissemination

Island organisations