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

Energy System Description

Final Energy Consumption in 2018

<table>
<thead>
<tr>
<th>Energy Source</th>
<th>MWh</th>
<th>CO₂</th>
<th>tonne</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electricity</td>
<td>59,666</td>
<td>9,427</td>
<td></td>
</tr>
<tr>
<td>Heating</td>
<td>54,683</td>
<td>2,548</td>
<td></td>
</tr>
<tr>
<td>Transport to &amp; from</td>
<td>33,000</td>
<td>8,811</td>
<td></td>
</tr>
<tr>
<td>Transport on Island</td>
<td>22,862</td>
<td>6,440</td>
<td></td>
</tr>
<tr>
<td>Industry</td>
<td>506</td>
<td>135</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td>170,717</td>
<td>27,361</td>
<td></td>
</tr>
</tbody>
</table>

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
- Academia

R&D

Heritage control
- Ministry of Culture

Dissemination
- Island organisations