

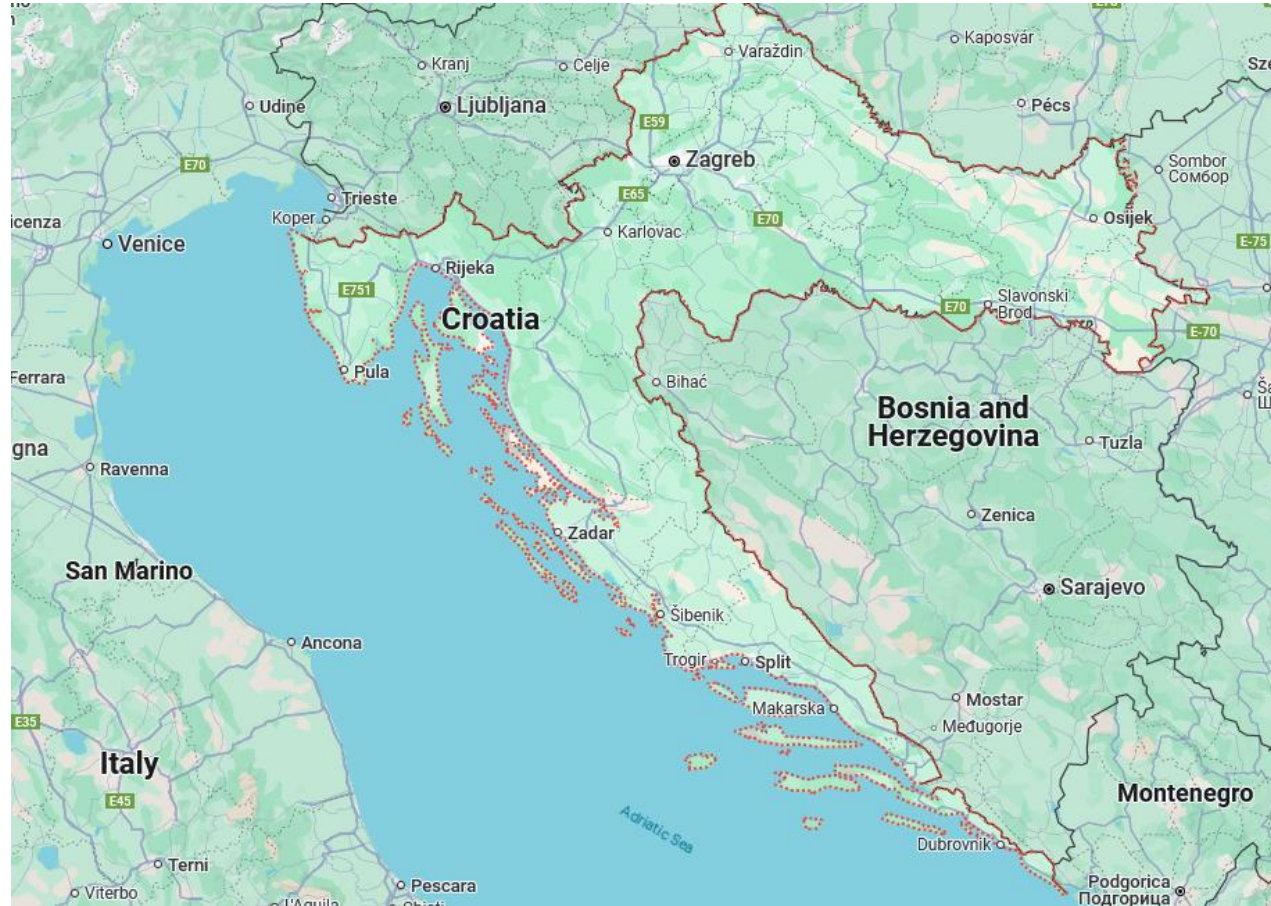


Clean energy for EU islands Forum 2025

## Public building decarbonization roadmaps on Korčula and Pašman

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# General information on Island Korčula and Pašman



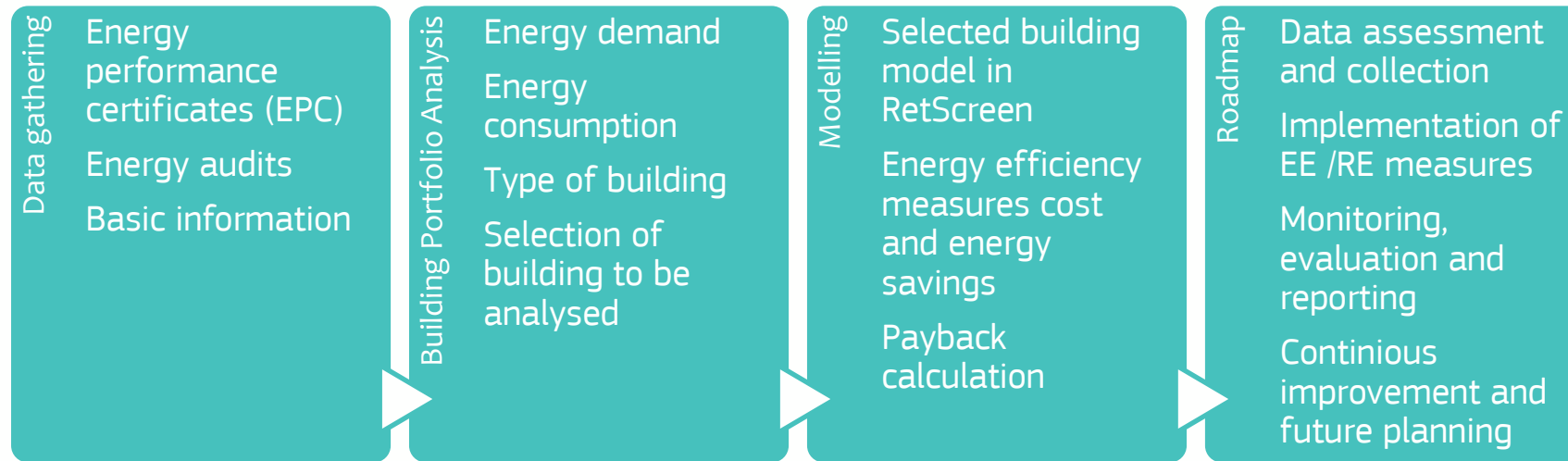
## Korčula Island

- **Area:** 279 km<sup>2</sup>
- **Total Population:** 14,612 inhabitants
- **Number of Settlements:** 13

## Pašman island

- **Area:** Approximately 60 km<sup>2</sup>
- **Total Population:** 2,136 inhabitants
- **Number of Settlements:** 13

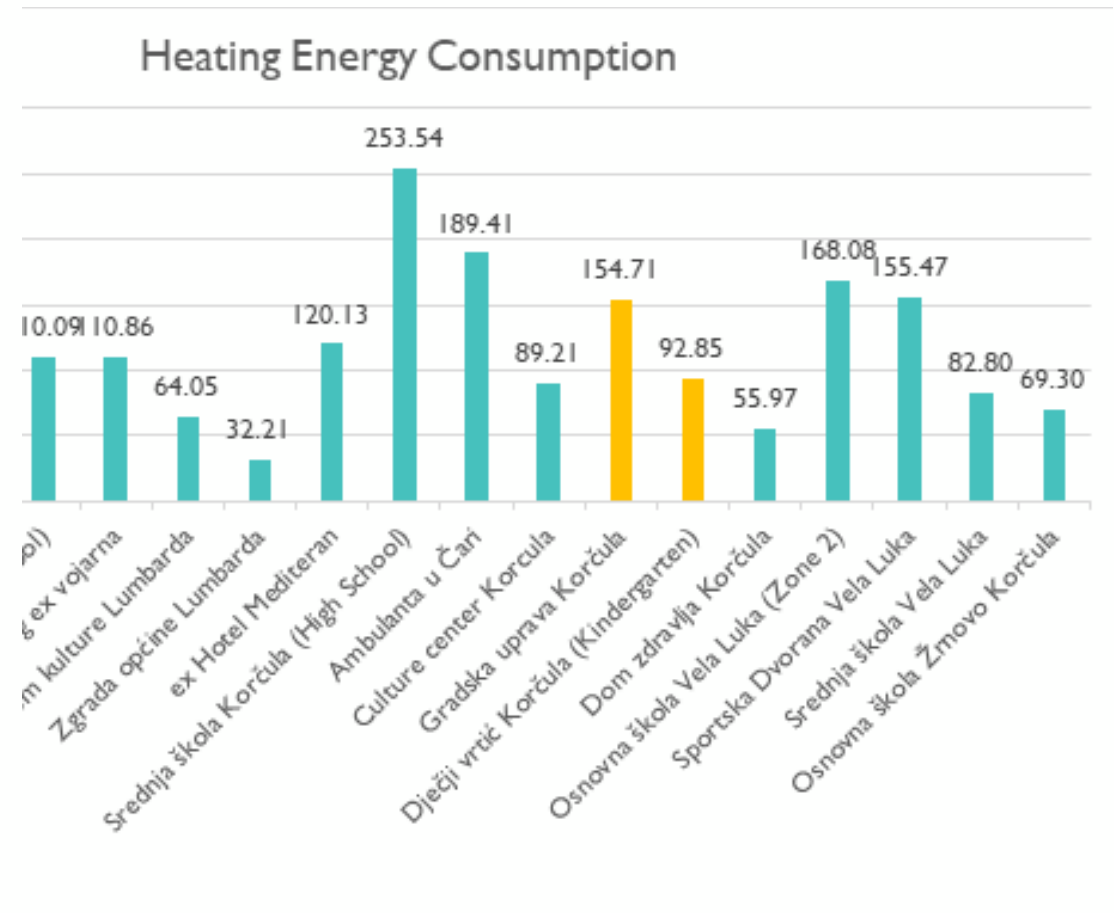
# Roadmap for decarbonizing public buildings



***Currently, exploring potential funding routes for renovation of selected public buildings***

# Korčula

- Portfolio: 15 buildings with data
- Selection of 2 buildings: Gradska uprava Korčula (town hall) and Dječji vrtić Korčula (kindergarden)
- Modelling based on audit and EPC (lack of data, hypothesis made)
- Heritage building and local regulation: **No PV**





# General info on the Gradska uprava Korčula (Town hall) and Dječji vrtić Korčula (Kindergarden) buildings

## **Town hall Korčula**

Built in 15th Century

Full protection of historical structures /Zone A/



## **Kindergarden**

Built in 1983.

Environmental heritage protection /Zone C/



# Korčula

## Gradska uprava Grad

- EE measures:
  - Upgrading to energy-efficient lighting systems,
  - Upgrading heating and hot water system
  - Upgrading cooling system
  - Improving insulation across various building components to enhance thermal performance (Walls, Roof and Floor) (internal insulation)
- Heritage building : Additional cost estimated of 35%

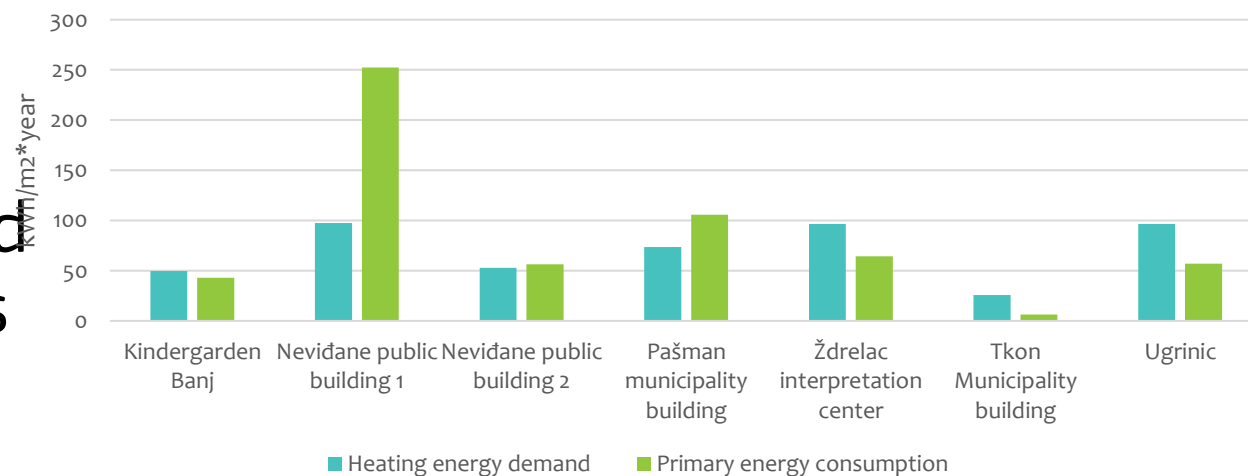
## Dječji vrtić Korčula

- EE measures:
  - Upgrading to energy-efficient lighting systems,
  - Upgrading heating and hot water system
  - Improving insulation across various building components to enhance thermal performance (Walls, Roof and Floor) (internal insulation)

| BUILDING NAME        | INVESTMENT COST (EUR) | ENERGY SAVINGS (KWH/YEAR) | ENERGY SAVINGS (%) | EMISSION SAVINGS (TCO2/YEAR) | FINANCIAL SAVINGS (EUR/YEAR) | INCREMENTAL O&M SAVINGS (EUR/YEAR) | SIMPLE PAYBACK (YEARS) |
|----------------------|-----------------------|---------------------------|--------------------|------------------------------|------------------------------|------------------------------------|------------------------|
| Gradska uprava Grad  | 489,776               | 201,078                   | 83.4%              | 47.2                         | 33,196                       | 39                                 | 14.7                   |
| Dječji vrtić Korčula | 64,230                | 41,235                    | 50.7%              | 9.7                          | 4,536                        | 6                                  | 14.1                   |

# Pašman

- Portfolio: 7 buildings with data
- Selection of 1 building: Nevidane public building 1
- Modelling based on audit and EPC (lack of data, hypothesis made)





# Pašman

● NEVIĐANE

● TKON

## Nevidane public building

Built in 1970.

Labelling level: **G**





# Pašman

## Nevidane public building 1

EE measures:

- Upgrading to energy-efficient lighting systems,
- Upgrading heating and cooling system
- Improving insulation across various building components to enhance thermal performance (Walls, Roof and Floor) (internal insulation
- Photovoltaic (PV) System for Reducing Electricity Consumption

## Extrapolation of results

- EE measures:
  - 3,44 EUR/kWh reduced

| Building name                 | Energy savings (kWh/year) | Investment cost (EUR) |
|-------------------------------|---------------------------|-----------------------|
| Nevidane public building 1    | 46 545                    | 160 402               |
| Kindergarden Banj             | 7 406                     | 25 518                |
| Nevidane public building 2    | 15 963                    | 54 999                |
| Pašman municipality building  | 53 459                    | 184 194               |
| Ždrelac interpretation center | 6 243                     | 21 511                |
| Tkon Municipality building    | 4 316                     | 14 869B               |
| Ugrinic                       | 5 080                     | 17 503                |
| TOTAL                         | 139 012                   | 478 996               |

**Thank you!**

