Clean energy for EU Islands Forum

20-22 November 2019

10.00 – 11.30: **Session #1**

Welcome by:
Mr Ivan Šale, *Deputy mayor of Korčula*
Mr Rikardo *Novak, Hvar*

Introduction to Renewable energy communities:
Feilim O'Connor Directorate General for Energy
Josh Roberts, REScoop (Video)

Presentation from Transition Coordinators from the hosts
Ana Marija Jakas, *the island of Hvar*
Zola Ivan Zokovic, *the island of Korčula*
Ana Ivkovic, *the island of Brač*

European Commission

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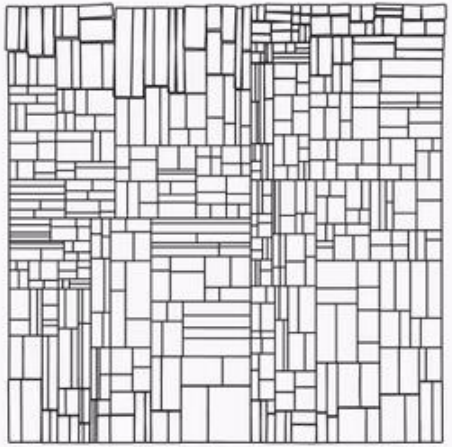
Energy Communities

Feilim O'Connor
European Commission
DG Energy, Unit C.2 New energy technologies

Today's presentation

European Energy Policy
Legislation on Energy Communities
Next Steps



HOW DOES IT LOOK LIKE?

2017

Today

European Commission

EU CLIMATE STRATEGIES AND OBJECTIVES

TARGET FOR REDUCING GREENHOUSE GAS
compared with 1990 level

20%

***EU climate and energy package until* 2020**

40%

COMMISSION OBJECTIVE
a climate-neutral Europe

TARGET FOR RENEWABLE ENERGY
% renewable energy

20%

***EU climate and energy targets until* 2030**

32%

TARGET FOR ENERGY EFFICIENCY
% improvement

20%

32,5%

***EU climate strategy until* 2050**

Purpose of Energy Communities

increase public acceptance

mobilise private capital

can increase flexibility

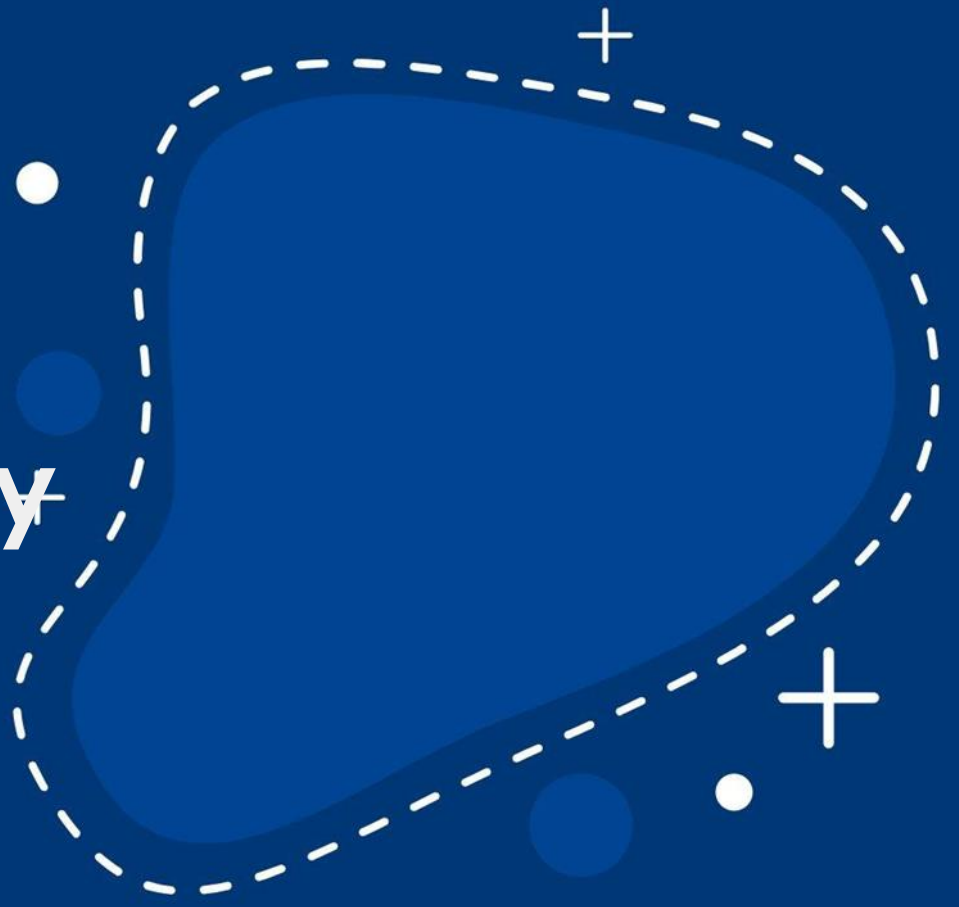
The Legislation

- Creates an enabling framework
- Recognition as market players
- Level playing field
- Favorable conditions
- Criteria for governance and participation
- Geographical proximity considered
- May have to the right to manage distribution networks

Table 1: Comparison of activities defined for energy communities in REDII and IEMD proposal

Types of activities	REDII	IEMD
Production of energy		
- Renewable electricity	✓	✓
- Non-renewable electricity		✓
- Renewable heat	✓	
- Renewable transport	✓	
Energy sharing	✓	✓
Distribution		✓
Supply		✓
Balancing responsibility	✓	✓
Consumption of energy	✓	✓
Aggregation		✓
Energy storage	✓	✓
Efficiency services		✓
EV charging		✓
Energy services		✓
Sales of energy	✓	
Market access (direct and via aggregation)	✓	✓
Possibility of cross-border participation	✓	✓

Funding for islands & Energy Communities



THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

Next Steps

TRANSPOSITION DEADLINES

ELECTRICITY DIRECTIVE

01.01.2021

ELECTRICITY REGULATION

30.06.2021

Further reading

ASSET (2019) Energy Communities in the European Union
https://asset-ec.eu/wp-content/uploads/2019/07/ASSET-Energy-Comminities-Revised-final-report.pdf

44 Quests and Answers on energy communities
https://www.rescoop.eu/blog/what-are-citizen-and-renewable-energy-communities?categoryId=39507

FSR (2019) The EU clean energy package
https://fsr.eui.eu/publications/the-eu-clean-energy-package/

Thank you for your time

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Clean Energy Transition Agenda

Clean energy for the island of **Hvar**

Clean Energy for EU Islands Forum Croatia 21 November 2019

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Island of Hvar

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The island shortly in numbers:

- 11. 077 inhabitants (cenzus 2011.)
- 297, 4 km², with archipelago islands 314 km²
- Interconnected to the mainland with 110 kV cable (Split-Brač-Hvar-Korčula)
- 35/110 kV on the island at City of Stari Grad

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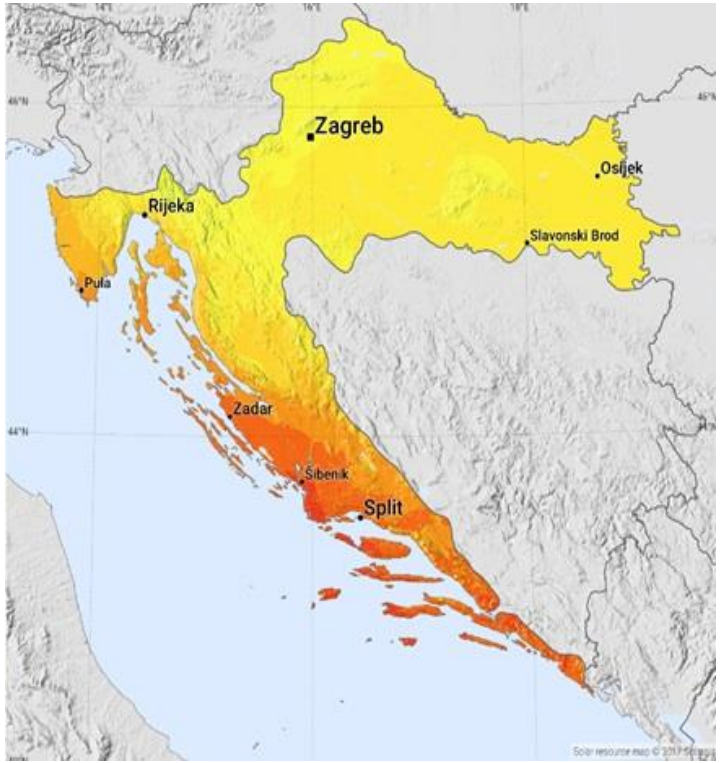
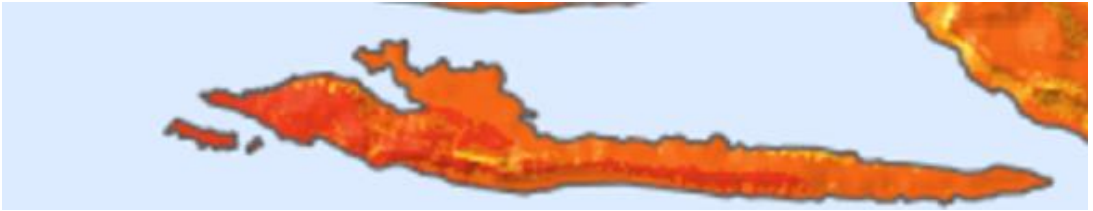
Island energy potential



- Solar energy



Spatial plan Split – Dalmatia County

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The CETA shortly in numbers:

- ✓17 organisations involved
- ✓1 meeting with local supporters
- ✓Agenda stage: 1st part - mid of December

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The CETA characteristics

- Non-existing energy strategies (Stari Grad 2016-2018)
- Low awareness of the topic
- Many stakeholders requires thorough and timely preparations and meetings

Future plan for CETA

- Workshops with local citizens throughout December
- Creating common vision with locals citizens and technical experts regarding possibilities
- January 2020 start of 2nd part of Agenda

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Thank you for your attention!

Energy transition team of
the Island of Hvar

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Clean Energy Transition Agenda

Clean energy for the island of **Korčula**

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Island of **Korčula**

Island of **Korčula**

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Town of **Korčula**

The island shortly in numbers

- Population: **15,522** (2011)
- Area: **279 km²** (108 sq mi)
- **110 kV** cable (Korčula-Hvar) **17,5 km**
- **110 kV** cable (Korčula-Pelješac) **2,15 km**
- **35/110 kV** on the island (TS 35/10 kV Blato, TS 35/10 kV Korčula)

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The CETA shortly in numbers

- 11 organisations involved
- 7 meetings with local supporters
- What is the current stage of the agenda?

  BASIC

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The CETA characteristics

- plans and strategies adopted (SEAP)
- favorable climate for **clean energy**

The CETA characteristics

- generally low awareness of the topic among the local population
- not high on the priority list
- unrealized measures from previous plans
- *business as usual* syndrome
- adapting to the specific circumstances of the islands

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The CETA creation timeframe:

1st part

- end of December 2019

2nd part

- starting at January 2020
- meetings before the tourist season
- finalizing by the end of April 2020

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THE FUTURE OF Korčula'S CETA:

- raise awareness of the local population
- establish a local energy community

HOW?

- continuous dialogue
- attention to people's concerns
- building trust among local community
- pushing local investments

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THE FUTURE OF Korčula'S CETA:

- rely on proven technologies
- work on both *small* and *large* projects
- synergy of all sectors

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THE FUTURE OF Korčula'S CETA:

- increase its share of renewable energy
- introduction of smart grids
- storage technologies

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Clean Energy Transition Agenda

Clean energy for the **Island of Brač**

Clean Energy for EU Islands Forum Croatia 21 November 2019

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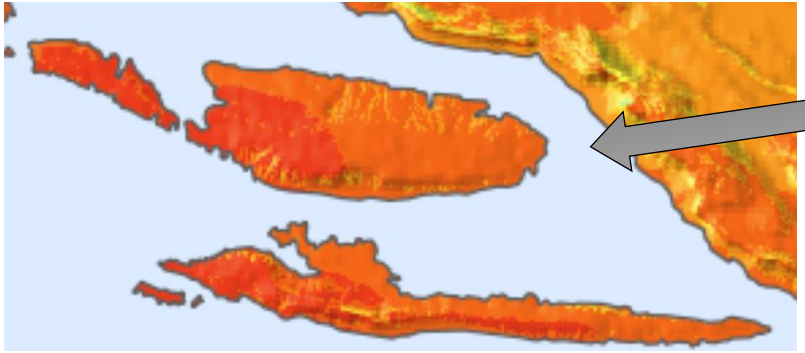
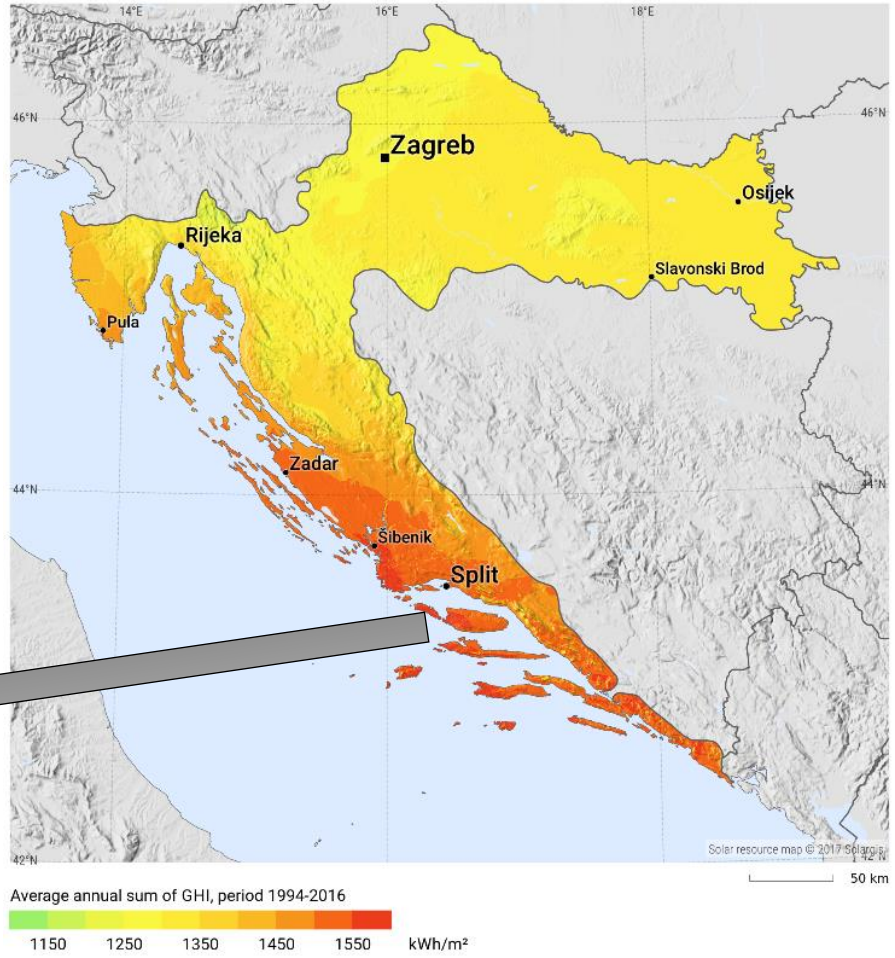
The island shortly in numbers

- 13.956 inhabitabts [2011.]
- 395,7 km^2
- 6 km out from the mainland
- Grid-tied to mainland (110 kV)
- 35/10 kV on the island

Island energy potential

- Solar energy
- Wind and sea energy





The CETA shortly in numbers

Examples

- 18 organisations involved
- 2 meetings with local supporters
- Agenda stage: 1st edition-end of December (waiting for more thorough dana of energy consumption)

The CETA characteristics

- No on-island production
- Resuming some of the pre-existing transition plans

Energetski razvojni plan otoka Brača
- 2009.

Lokalna razvojna strategija
- 2016.

Agenda Brača
- 2019.

JOINT SECAP Brač
- 2019.

Main ideas

- Building solar power plants with battery energy storage
- Supporting local agriculture with solar watering systems and solar collectors
- E-mobility (buses for schools)

Further ideas

- Public lighting
- Public buildings renovation using RES
- Smart Grid, Smart City
- Educational measures

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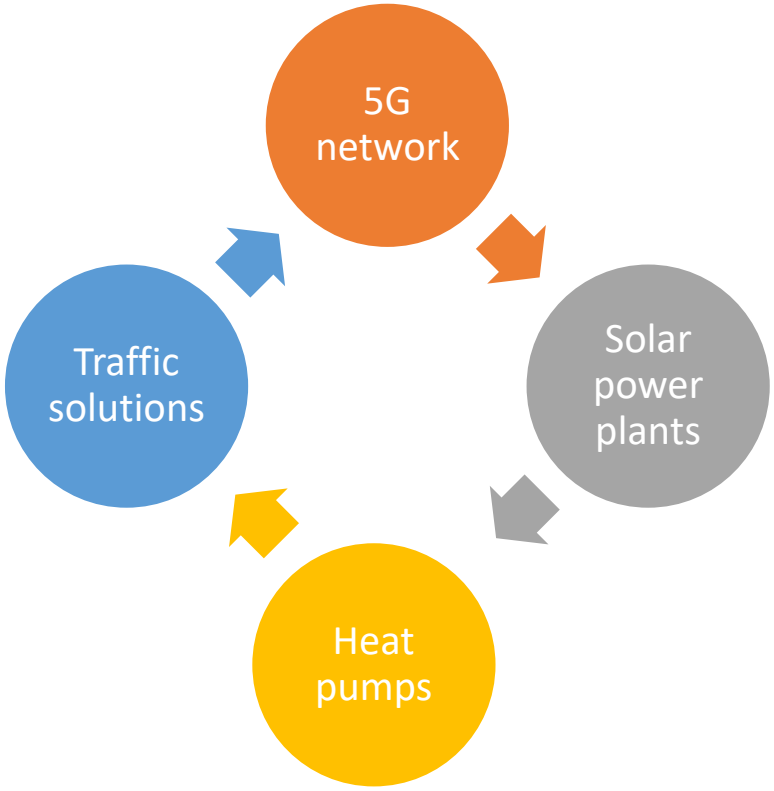
1-year plan

Local municipality space plan changing	Building projects for local solar power plants (2 ha)	Educational measures	Applying for 5G network calls	Finding new e-charging locations	Energy mapping project

Educational measures



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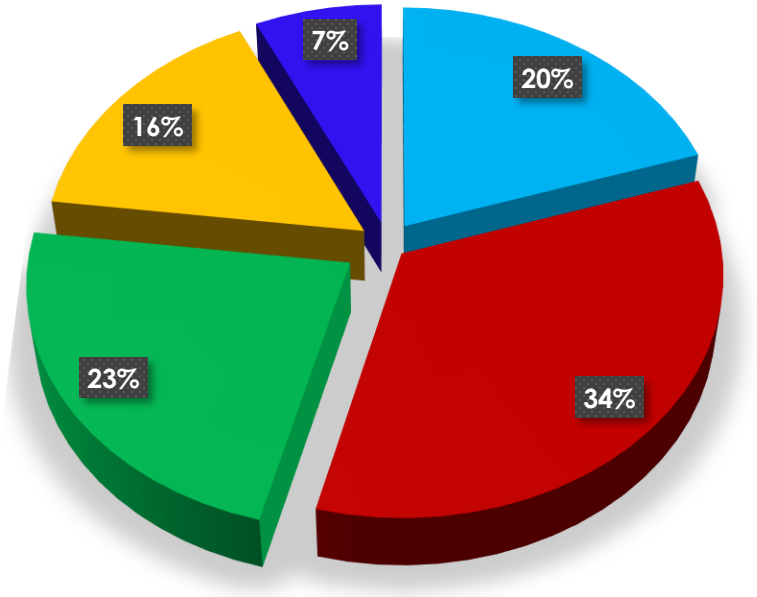
Possible energy solution

Island energy needs, 90 GWh



- Utility scale solar power plant
- Local power plants
- Private roof solar
- Sea/wind energy
- Further improvements

Thank you for your attention!