

Joint Sustainable energy action plan for municipalities of the Korcula island according to the option 2 of the Covenant of Mayors

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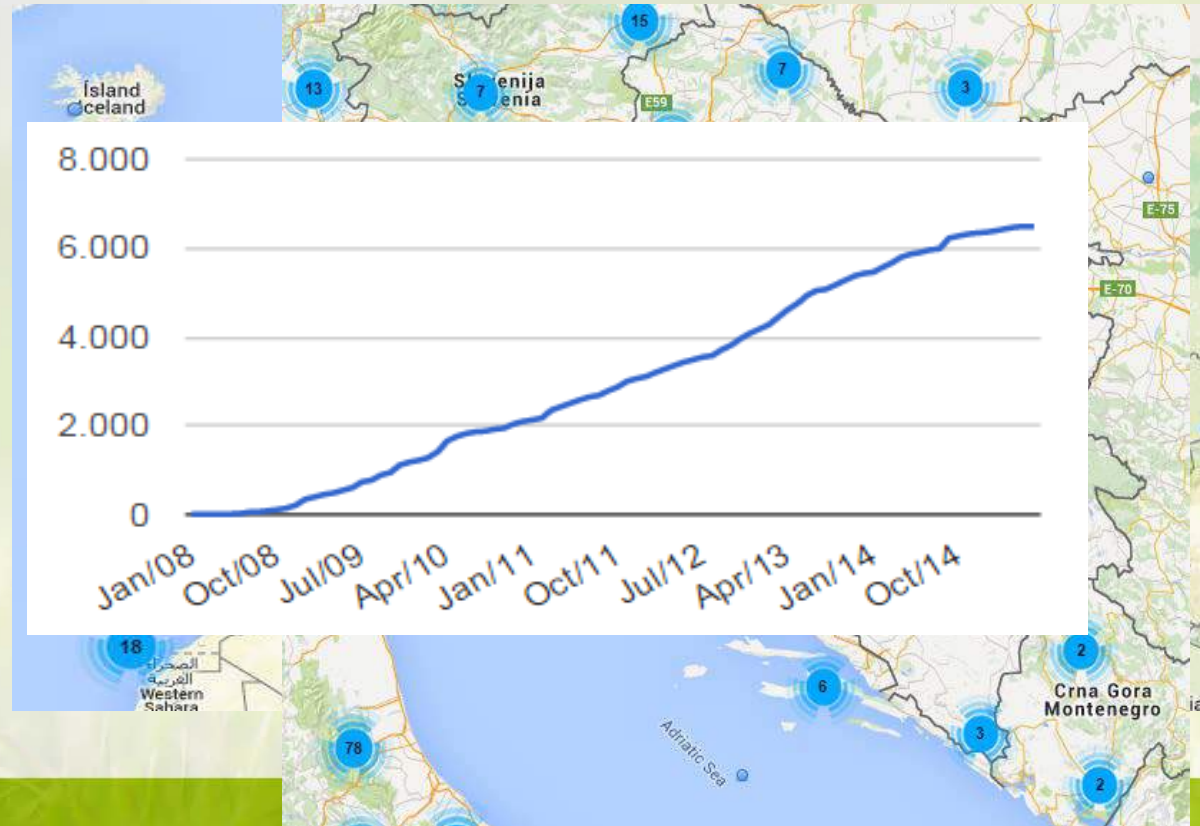
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Introduction: Covenant of Mayors



- Initiative started in 2008 by European Commission
- The inclusion of local governments in order to reduce CO₂ emissions by 20% by 2020
- Number of signatories 6 509, with more that 208 million inhabitants
- Submitted 4 837 SEAPs
- In Croatia 60 municipalities, 58 SEAPs



Options for joining the initiative

- Individual
- Joint
 - Option 1
 - Option 2

	Individual SEAP	Joint SEAP option 1	Joint SEAP option 2
CO ₂ Emissions Reduction Target			
Emission Inventory			
SEAP Actions			
SEAP City Council Approval			
SEAP Template Submission			
SEAP Document Submission			
Signatory Profile in the Website			

 individual |  shared



PHASE: Initiation

Political commitment and signing of the Covenant

Part I, Chap

Adapt city administrative structures

Part I, Chap

Build support from stakeholders

Part I, Chap

PHASE: Planning phase

Assessment of the current framework (*): Where are we?

Part I, Chap

Establishment of the vision: Where do we want to go?

Part I, Chap

Elaboration of the plan: How do we get there?

Part I, Chap + Part II

STEP 1: Signature of the Covenant of Mayors

Creation of adequate administrative structures

Baseline Emission Inventory & SEAP development

STEP 2 : Sustainable Energy Action Plan submission

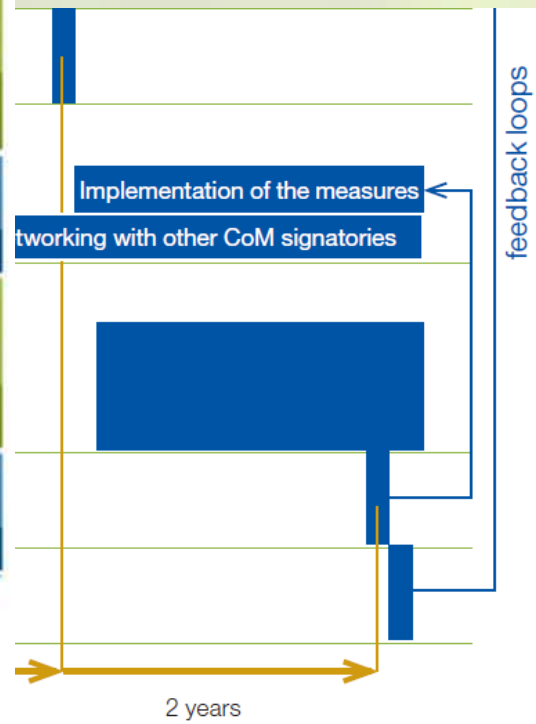
Implementation of your Sustainable Energy Action Plan

Monitoring progress

STEP 3 : Regular submission of implementation reports

-20% CO₂ by 2020

Step by step SEAP



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Methodology for SEAP

- Adhesion form for Option 2
- Creation of action group: municipalities, LAG 5, Dubrovnik-Neretva County, DUNEA, and others
- Choosing the coordinator
- Aligning with strategic documents and initiatives of local government
- Baseline year is 2012
- Sectors: Public
 - Buildings
 - Vehicle fleet
 - Transport
 - Lightning

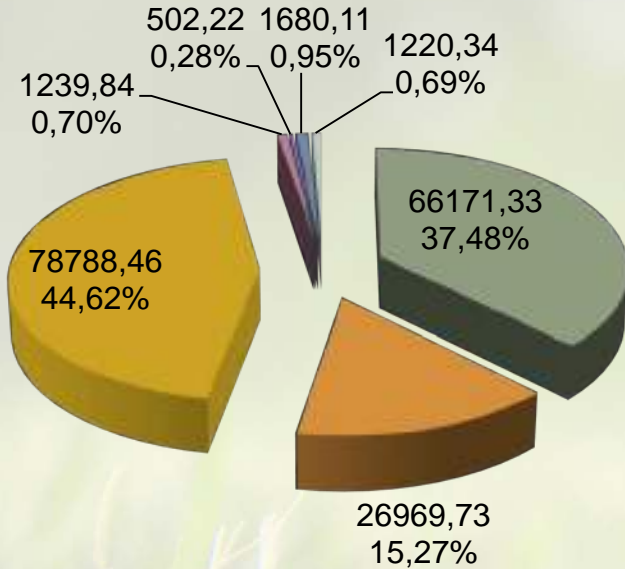


Methodology for SEAP

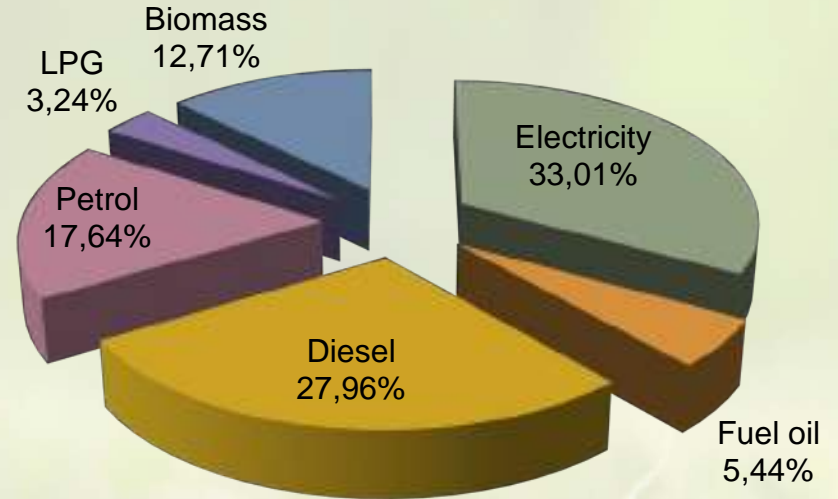
- Data are acquired by IEE Meshartility project
 - HEP ODS Elektrojug Dubrovnik, MUP, municipalities and city on the island, Autotrans Ltd.
- Rest of the consumption is estimated according to the data acquired from Croatia Bureau of Statistics and data from Program of Energy Efficiency in Dubrovnik-Neretva County
- Odyssee Mure database – for vehicles
- ICLEI Europe's Basic Greenhouse Gas Inventory Quantification Tool for calculation of emissions and Energy in Croatia publication



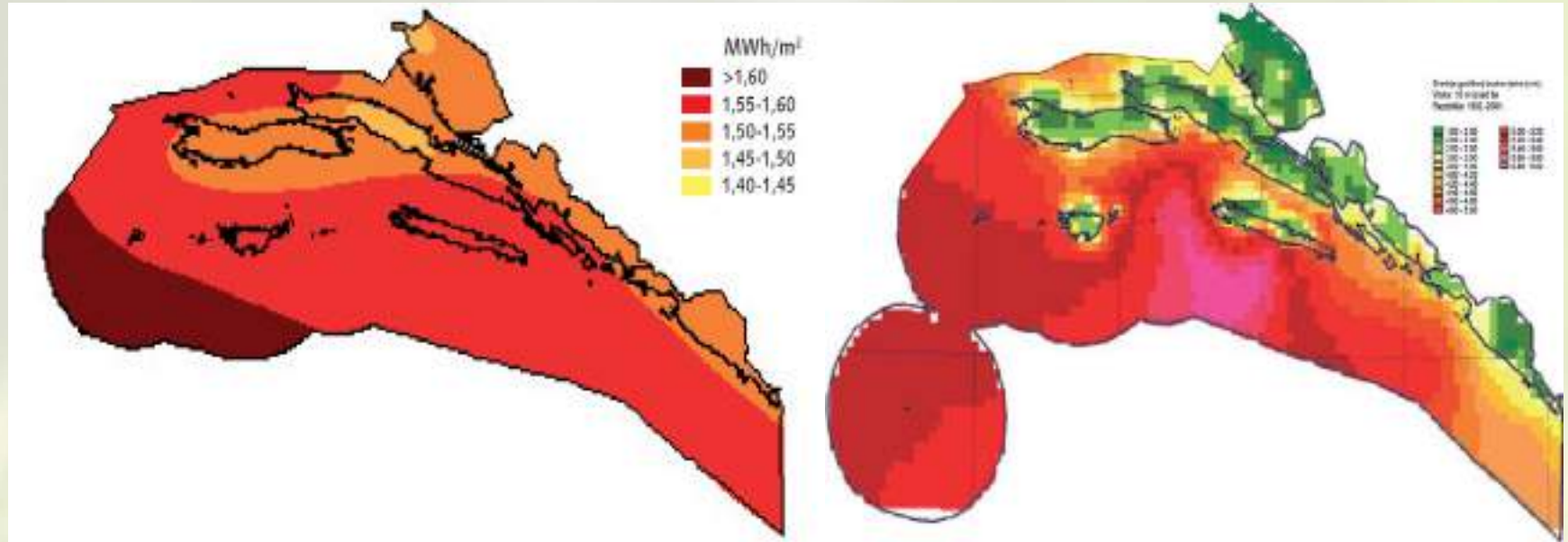
Final energy consumption (MWh)



- Households
- Commercial
- Transport
- Public buildings
- Municipal vehicle fleet
- Public lightning
- Public transport



Renewables potential



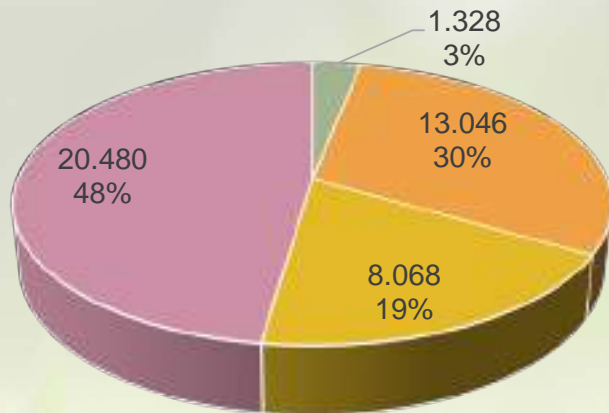
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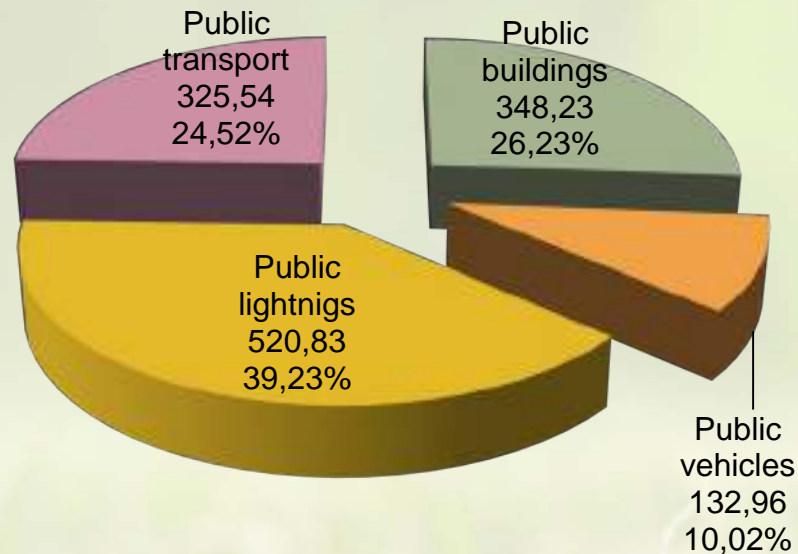
Beyond Energy Action Strategies



Baseline emission inventory (tCO₂)



- Public sector
- Households
- Commercial
- Other road transport



Baseline emission inventory (tCO₂)

Fuel type	Emissions (tCO ₂)	Energy Consumption	Emissions share (%)	Average emissions (tCO ₂ /resident)	Average energy consumption (MWh/resident)
Electricity	17 996	58 052	41.80%	1.159	3.740
Fuel oil	2 676	9 603	6.21%	0.172	0.619
Diesel	13 169	49 365	30.68%	0.848	3.181
Petrol	7 770	31 146	18.10%	0.501	2.007
LPG	1 301	5 729	3.02%	0.084	0.369
Biomass	11	22 440	0.02%	0.001	1.446
Total	42 923	176 335	100.00%	2.765	11.361



Actions and measures for emission reduction

Name of the measure	Energy saved /produced (MWh)	Emissions reduced (tCO ₂)
Promotion of the car sharing model on the island	588.15	152.88
Promoting the purchase of electric vehicles	1 333	346.54
Construction of new bike paths and promotion of bicycles as transportation vehicle	49.74	12.93
Introduction of 10% biofuels in the transport	fuel replacement	1 888
Promotion of public transportation	2 353	611.53
Promotion of electric bicycles with solar chargers	2 531	657.82
Eco driving education of drivers	3 939	1 024
Korcula-Lumbarda: expansion of county road for purpose of constructing a bike path	Necessary more info for estimation.	
Total	10 794	4 694

- Public sector, households, commercial, transport



Joint SEAP advantages

- Joint planning of measures
- Transfer of knowledges between municipalities
- Access to more financial instruments, joint public procurement, economy of scale
- Possibility to construct larger RES power plants
- Joint action group for SEAP coordination

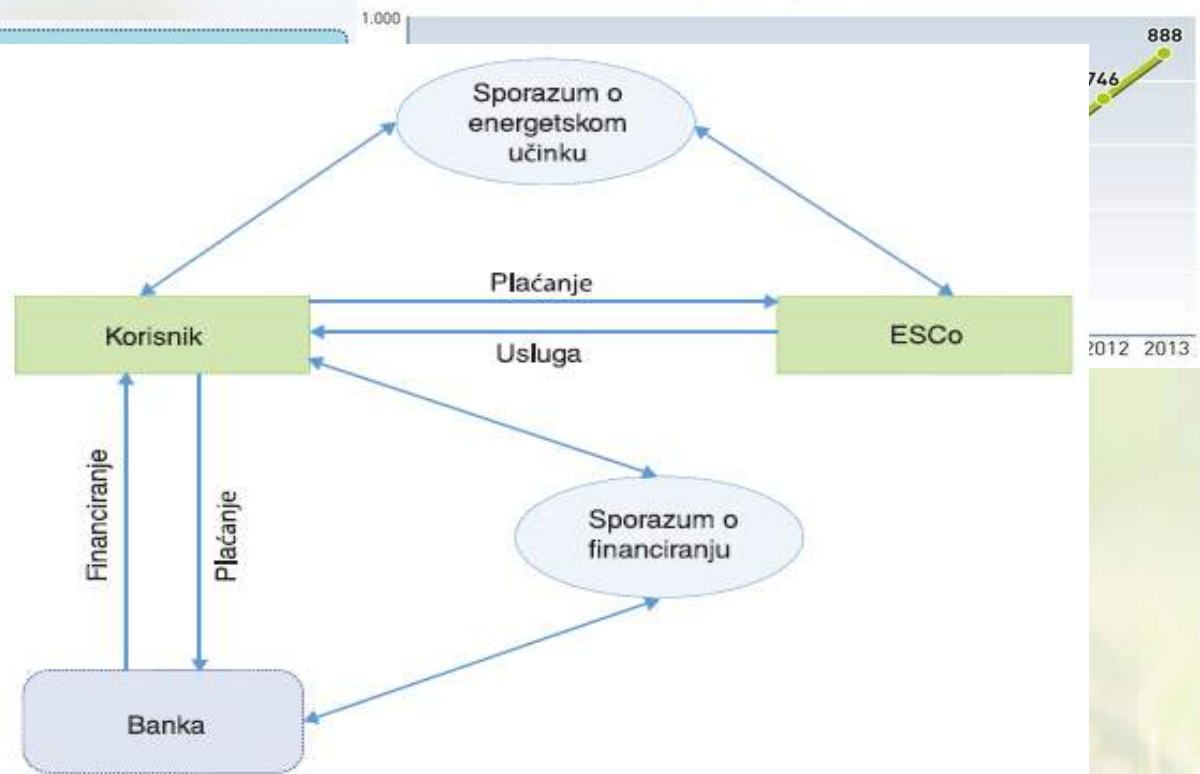
	City of Korcula	Mun. of Lumbarda	Mun. of Smokvica	Mun. of Blato	Mun. of Vela Luka	Island of Korcula
1	59 600 €	-	11 900 €	35 800 €	47 700 €	155 000 €
2	63 600 €	-	15 900 €	47 700 €	47 700 €	175 000 €
3	63 600 €	-	15 900 €	47 700 €	47 700 €	175 000 €
4	40 000 €	-	26 500 €	40 000 €	40 000 €	146 500 €



Financing sources



- EPEEF
- HBOR
- APN, Crowdfunding





- Public sector
- Other road transport
- Commercial
- Households



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Thank you for the attention!

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