

# Study/exchange visit organization report

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## Content

<b>Content</b> .....	2
<b>Introduction</b> .....	3
<b>PP1 – IRENA – ISTRIAN REGIONAL ENERGY AGENCY</b> .....	4
<b>PP2 – CITY OF SAN BENEDETTO DEL TRONTO</b> .....	9
<b>PP3 – ABRUZZO REGION</b> .....	12
<b>PP4 – MUNICIPALITY OF PESCARA</b> .....	15
<b>PP5 – SDEWES CENTRE</b> .....	16
<b>PP6 – PRIMORJE-GORSKI KOTAR COUNTY</b> .....	27
<b>PP7 – COUNTY OF SPLIT-DALMATIA</b> .....	39
<b>PP8 – MUNICIPALITY OF VELA LUKA VIDEO</b> .....	49
<b>PP8 – MUNICIPALITY OF VELA LUKA WORKSHOP</b> .....	51

## Introduction

The deliverable summarizes activities of the project partners in their target area considering dissemination of the best practice activities in the development of the Joint\_SECAP actions. The particular focus is given to the actions considering adaptation to the climate change.

The aims were focused on building a strong IT-HR Joint SECAP Community through the involvement of about 30 municipalities belonging to the 8 project district areas, and all the stakeholders potentially interested in the Joint SECAPs implementation. Each district area will act on his territory, sharing in every case his activity with the other partners through the communication channel and events provided.

Every district area has organised one study/exchange visit, which was done as a physical event or video depending on the COVID-19 situation. The study visits planned to involve not only institutional actors but strongly targeted to the different stakeholders of the specific area: private companies, associations, every big or small subject that can be potentially interested in the implementation of Joint SECAP actions and measures (i.e. energy sector, engineering and construction companies, tourism sector activities, etc.).

The report is organised as a collection of separate reports on the study visits organised in each area. The reports are listed according to the partners organisation from the application form.

## PP1 – IRENA – ISTRIAN REGIONAL ENERGY AGENCY

### General info

<b>Topics covered</b>	<ul style="list-style-type: none"> <li>- Best practices of mitigation and adaptation climate change measures in the City of Poreč-Parenzo</li> <li>- An example of a good practice of climate change adaptation measures on the example of built rainwater drainage system in the city of Pula</li> <li>-SECAP process and best practices in the City of Pazin through LIFE SEC ADAPT project</li> <li>- SECAP results presentation for the Municipality of Brtonigla-Verteneglio, City of Buje-Buie and City of Novigrad-Cittanova</li> <li>- Discussion and Q&amp;A</li> </ul>
<b>Date</b>	30.04.2021.
<b>Location</b>	Online meeting
<b>Number of participants</b>	14

### Objective of the study visit

The objective of the study visit was to present best practices of implementation of mitigation and adaptation measures to climate change on the example of the cities Poreč, Pula and Pazin, three cities located in Istrian Region which were involved in and whose SECAPs were produced in the scope of the LIFE SEC ADAPT project in order to share possible methods of practical measure usage, financing, monitoring etc. The second objective was the presentation of the final SECAP results to all participants and subsequent discussion and Q&A.

### Description of the study visit activities

After a couple of weeks of effort to organize the study visit in person on a location related to a best practice in Istrian Region, the meeting was finally organised online due to organisational difficulties related to COVID-19. Therefore, since a field visit was not possible at that time, it was decided to present

best practices online to the participants involved in the project. The meeting began with the opening words and project introduction by Antonio Franković, senior associate from IRENA, followed by best practices of mitigation and adaptation climate change measures in the City of Poreč-Parenzo presented by Gordana Lalić, CEO of Parentium Ltd. Ms. Lalić presented the main climate change related issues related to the traffic sector in Poreč, one main traffic sector related measure defined in the SECAP document for the City of Poreč and the measures being implemented through two other Italy-Croatia programme projects, SUTRA and STREAM. The second presentation was an example of a couple of good practice adaptation measures of climate change on the examples of built rainwater drainage systems in the city of Pula presented by Tatjana Uzelac from Starum Ltd Pula. The examples demonstrated solutions to water flooding issues on five locations in Pula in the form of a new beltway with raingardens, parks with new drainage systems and water absorbing plants and conceptual design strategy for irrigation, all based on BGI Blue Green infrastructure and solutions. The next presenter, Claudia Pučić, CEO of Vortices SLtd, presented the experiences on LIFE SEC ADAPT project and climate strategy for the City of Pazin and the SECAP construction and implementation process through best practices involving local green parks and surfaces maintenance paired with raising awareness to climate change issues, food waste and composting educational activities through project PROEDUEKO, green infrastructure development in Natura 2000 protected area in Pazin, new developed bike routes, solar panels installation information and support through 'Good energy' tour organized in Pazin and electric recharging station installation in Pazin. Duška Šaša and Sanda Hunjak from ECORYS CROATIA Ltd then presented the main results and outcomes of the SECAP documents finalized for the IRENA target area (Municipality of Brtonigla-Verteneglio, City of Buje-Buie and City of Novigrad-Cittanova). The meeting was concluded with a general discussion regarding SECAP results and possibilities of future SECAP measure implementation and financing, and discussion regarding shared experiences of the presented best practices.

Lecturers were already mentioned representatives from the three cities which participated in a previous LIFE2014-2020 programme project called LIFE SEC ADAPT aimed at SECAP development for six cities located in Istrian Region - Gordana Lalić, CEO of Parentium Ltd and Croatian ambassador for the European Climate Pact, Tatjana Uzelac, civil engineer, member of Croatian Hydrological Association and Croatian Chamber for Civil Engineers and employee of Starum Ltd Pula and Claudia Pučić, CEO of Vortices SLtd and member of 'Srce Istre ltd' development agency. Other lecturers included Duška Šaša and Sanda Hunjak acting as the external experts in the Joint SECAP project for ECORYS CROATIA Ltd.

Other participants consisted of IRENA staff, Sunčana Dežjot and Jana Šain from FLAG Pinna nobilis, Sabrina Quarantotto from the City of Buje-Buie, Maja Hranilović from ECORYS CROATIA Ltd, Valter Bassanese from Buje Tourist Association, Tea Rakar and Paolo Klarić from the Municipality of Brtonigla-Verteneglio and Corinne Pozzecco from the City of Novigrad-Cittanova.

## Results of the study visit workshop

The presented best practices of SECAP measure implementation provided all participants an insight into the experiences and climate related issues and obstacles of others and showed possibilities related to projecting solutions, construction solutions and financing that can be implemented on other areas in the Region of Istria. Presentation of the SECAP results for the Municipality of Brtonigla-Verteneglio, City of Buje-Buie and City of Novigrad-Cittanova offered an insight into the future direction of these local government units regarding climate change mitigation/adaptation actions and strategy, and the possibility of joint cooperation between the local government units and other institutions participating on the study visit, since all of them share a similar vision for the future regarding issues and actions related to climate change. The participating cities showed great interest in the practical and operational part regarding SECAP measures which were demonstrated in the presentations, and the meeting provided a good platform for later discussion related to this topic.

## Study visit agenda



Sastanak 'Rezultati zajedničkog Akcijskog plana održivog energetskog razvoja i prilagodbe klimatskim promjenama (SECAP-a) za općinu Brtonigla-Verteneglio, grad Buje-Buie i grad Novigrad-Cittanova i primjeri dobre prakse mjera prilagodbe klimatskim promjenama'

Online sastanak projekta Joint\_SECAP

30.04.2021. u 09:00 h, Zoom webinar

Agenda

09:00 - 09:30	Online registracija sudionika	
09:10 - 09:15	Uvodni govor	Antonio Franković, IRENA
09:15 - 09:30	Grad Poreč-Parenzo: Mjere ublažavanja i prilagodbe klimatskim promjenama u primjeni (praksi)	Gordana Lalić, Parentum d.o.o.
09:30 - 09:45	Primjer dobre prakse mjera prilagodbe klimatskim promjenama na primjenu izgrađenih sustava odvodnje oborinskih voda u gradu Puli	Tajana Uzelac, Starum d.o.o. Pula
09:45 - 10:00	„Paži na klimu? Pazin?“	Claudia Pučić, Razvojna agencija Srce Istre
10:00 - 11:30	Predstavljanje SECAP-a za općinu Brtonigla-Verteneglio, grad Buje-Buie i grad Novigrad-Cittanova	Doška Salta i Sandra Hunjak, Ecorys Hrvatska d.o.o.
11:30 - 12:00	Diskusija	
12:00	Završna riječ	







## Annex

 <p><b>GRAD POREČ - PARENZO CITTÀ DI POREČ - PARENZO</b></p> <p>Online sastanak projekta Joint_SECAP Rezultati zajedničkog Akcijskog plana održivog energetskog razvoja i prilagodbe klimatskim promjenama (SECAP-a) za općinu Brtonigla-Verteneglio, grad Buje-Buie i grad Novigrad-Cittanova i primjeri dobre prakse mjera prilagodbe klimatskim promjenama</p> <p><b>GRAD POREČ - PARENZO</b> Mjere ublažavanja i prilagodbe klimatskim promjenama u primjeri (praksi)</p> <p><small>Goršana Lalić, mag.ing.str. direktorica projektnog uredništva PARENTOUM d.o.o. za izvođenje projekata iz područja energetske učinkovitosti i zaštite okoliša</small></p>	  <p>Primjer dobre prakse mjera prilagodbe klimatskim promjenama na primjeru izgrađenih sustava odvodnje oborinskih voda u gradu Puli</p> <p>Tatjana Uzelac, dipl.ing.grad</p> 
<p><i>Sastanak 'Rezultati zajedničkog Akcijskog plana održivog energetskog razvoja i prilagodbe klimatskim promjenama (SECAP-a) za općinu Brtonigla-Verteneglio, grad Buje-Buie i grad Novigrad-Cittanova i primjeri dobre prakse mjera prilagodbe klimatskim promjenama'</i></p> <p><i>Online sastanak projekta Joint_SECAP</i></p> <p><i>30.04.2021.</i></p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><b>PAZIŠ NA KLIMU? PAZIN!</b></p> </div> <p><small>Claudia Pučić, Razvojna agencija Srce Istre</small></p>	 <p><b>AKCIJSKI PLAN ENERGETSKI ODRŽIVOG RAZVOJA I PRILAGODBE KLIMATSKIM PROMJENAMA (SECAP)</b></p> <p><b>Općina Brtonigla - Verteneglio</b></p> <p>Joint SECAP</p> <p><small>European Regional Development Fund</small></p> <p><small>30/04/2021</small></p>

## PP2 – CITY OF SAN BENEDETTO DEL TRONTO

### General info

<b>Topics covered</b>	<p>Please shortly describe the topics covered in the video.</p> <ul style="list-style-type: none"> <li>- Flood risk</li> <li>- Hydrogeological risk</li> <li>- Coastal erosion</li> <li>- Rising temperatures and soil consumption</li> <li>- Climate change</li> <li>- Extreme events</li> <li>- Environmental legacy</li> <li>- Future / generational contrast</li> </ul>
<b>Date</b>	<p>Editing May/June 2021</p> <p>The video will be used in the future to involve the population in forthcoming events and to raise awareness.</p>
<b>Location</b>	<p>Territories of the 4 Joint_SECAP municipalities (San Benedetto del Tronto, Grottammare, Monteprandone and Cupra Marittima)</p>
<b>Video length</b>	<p>3 minutes, 54 seconds</p>

### Objective of the study visit

The video was used as a replacement for the study visits due to the impossibility of organising attending events because of COVID19 emergency.

Four local young people were involved, who through the message contained in the video will act as spokespersons towards the residents of the four municipalities, in particular towards the younger generations. Further, the content aims very much to address adults and to remind them of their responsibility towards young people.

That is why young people's message is aimed at adults and wants to make them aware of "the legacy they leave to the younger generations".

The choice was made to film in characteristic places of the area involved, easily recognisable to those who live there, but the intention was to launch universally shared messages and to this end the location was not explicitly stressed.

With this in mind, the videos could also be used in other territories and not only in our project area.

The issues addressed were:

- Flood risk
- Hydrogeological risk
- Coastal erosion
- Rising temperatures and soil consumption

## Description of the study visit activities

The study visits have been fully replaced by the video. The aim is to have an agile dissemination and awareness-raising material that can be used in the future to involve the public and explain the issues related to the impacts on the territory and the risks arising from the occurrence of extreme events resulting from climate change.

## Results of the study visit video

The videos were recorded in the 4 municipalities of the Joint Secap.

In San Benedetto del Tronto (Sentina Reserve), footage was shot for the Coastal Erosion; in Montepandone, along the Tronto River for Flood Risk and in the Industrial area for Rising Temperatures and Land Consumption. Soil consumption was also addressed with images shot in Grottammare and Cupra Marittima in residential areas. Finally, scenes on hydrogeological risk were filmed near the ruins of the Castle of San'Andrea in Cupra Marittima.

The filming was done both from the ground and also with the aid of drones. In addition, historical images of the area were included in the video to testify to the problems that have occurred over time. The young actors, with their messages, explain why some established practices are harmful to the environment; they highlight problems, inconveniences in the daily life of our cities and ask questions to the audience

regarding the development of the places where they live, in the hope that there will be a more sustainable future.

## Annex

Attach link to the video. Place video as a separate file on the google drive in WP2, task 2.3.

<https://drive.google.com/file/d/1CV0511LoleiTFUEbsgCK4cR5Emo5m3p/view?usp=sharing>

## PP3 – ABRUZZO REGION

### General info

<p><b>Topics covered</b></p>	<p>Within the Joint_SECAP project, Abruzzo Region has identified two target areas, the hilly one (made up by the municipalities of Penne, Elice, Castilenti and Castiglione Messer Raimondo) and the coastal one (made up by the municipalities of Silvi, Pineto, Roseto degli Abruzzi, Giulianova and Mosciano Sant’Angelo). Due to covid-19 pandemic, it has not been possible to organize the study visits in presence and thus, two videos “storytelling” have been realized, one for each target area. Concerning the formats, 6 video in total have been developed (3 per each target area: one in Italian in high resolution; one in Italian with English subtitles; one in low resolution for mobile phones).</p> <p>Each video is aimed at highlighting the peculiarities of each target area as well as the most relevant climate change issues and effects as defined by the risk and vulnerability assessment realized within the project.</p> <p>The video about the target area 1, after a description of the Fino river, the Fino Valley and the natural reserve of Penne, is focused on hydrogeological instability, water bombs, heat waves and weather instability. The targeted sector is agriculture and its products (oil and wine above all).</p> <p>The video about target area 2 is focused on the description of the coast of Teramo which is mostly sandy and on the Reserve of Borsacchio and protected area of Torre Cerrano. It then switches to the coastal erosion, sea storm and water bombs. A focus on the recognition of the blue flag as means of sustainable development is made, as well as on the tourism sector.</p>
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	<p>Two stakeholders per area have been interviewed to better focus the climate change effects, as well as all mayors of the involved municipalities to speak about the importance of the Joint PAESCs and the Joint_SECA project. The involved stakeholders belong to different sectors: for target area 1, one entrepreneur in the wine sector and one farmer; for target area 2, one biologist and one owner of a bathhouse.</p> <p>Both videos end with a message which underlies the importance to adapt to climate change, especially through joint actions, for the sake of future generations and the importance of communication and awareness activities in the field.</p>
<b>Date</b>	/
<b>Location</b>	/
<b>Video length</b>	<p>Target area 1: 05:27 minutes</p> <p>Target area 2: 05:43 minutes</p>

## Objective of the study visit

In accordance to the AF, the objective is to involve institutional actors and different stakeholders of the target areas in the project topics and activities and to make all people aware of climate change issues and the Joint\_SECAP project through the dissemination of the storytelling videos which describe the peculiarities of each area and the actions put in place to adapt to climate change thanks to the Joint\_SECAP project itself.

## Description of the study visit activities

The video of target area 1 focuses the Valfino-Vestina area, that is the territory crossed by the Fino River where the municipalities of Penne, Elice, Castilenti and Castiglione Messer Raimondo are located.

The video of target area 2 focuses the Teramo Coast and the neighbouring hilly towns where the municipalities of Silvi, Pineto, Roseto, Giulianova and Mosciano Sant'Angelo are located.

Thus, images are provided for the two areas along with their peculiarities as described in the previous section. In particular, for both areas the following climate change impacts and risks have been targeted: flood and landslide, extreme heat and drought. Real plagues are hydrogeological instability for target area 1 and coastal erosion for target area 2. It has been highlighted that target area 1 is mainly agricultural even if also may companies are present, meanwhile target area 2 is mainly touristic. To properly tackle these climate change effects and adapt, immediate action is required. The Joint\_PAESC and thus the cooperation between municipalities is dramatically needed.

Interviews have been made to:

- the mayors of the 9 municipalities. They sent a message together highlighting the cooperation within Joint\_SECAP and the need to act now;
- for target area 1, one entrepreneur in the wine sector and one farmer. The first one has explained that global warming has led to an earlier harvest and less tillage because of more intense rainfall and prolonged draughts. This problem, in the near future, will force him to move his vineyards to higher altitudes. The farmer has explained that he has seen climate change with his own eyes. In the Fino Valley they go from scorching heat to intense rain;
- for target area 2, one biologist and one owner of a bathhouse. The biologist has explained how the ecosystem of the Adriatic sea is changing due to climate change meanwhile the second has explained his difficulties due to the retreat of the coast.

## Results of the study visit video

It is interesting to notice that everybody, at any level (policy-makers, entrepreneurs, experts and citizens) are aware about the climate change issues and the need to act now.

## Annex

6 videos, 3 per area.



## PP4 – MUNICIPALITY OF PESCARA

### General info

<b>Topics covered</b>	Current situation on climate change in the Pescara area. Main risks and local common actions.
<b>Date</b>	29 may
<b>Location</b>	Varied locations
<b>Video length</b>	7' 37''

### Objective of the study visit

The objective of the video is to describe the area covered by the project, the main risks associated with climate changes and the main common actions to be implemented to mitigate this process. At the same time we want to disseminate a message: climate change affects everyone and we can all do something to stop it.

### Description of the study visit activities

The video summarizes the information that emerged thanks to the Joint Secap project and related activities. Some representative points of the city of Pescara and the target cities were filmed. In the interviews, the representatives of the city of Pescara and the city of Montesilvano told what the Joint Secap project meant for them and how climate change has had an impact on their territories

### Results of the study visit video

The video highlights a growing awareness of climate change and the need to act together and quickly.

### Annex

Attach link to the video. <https://www.youtube.com/watch?v=n30APG9ttV4>

## PP5 – SDEWES CENTRE

### General info

<b>Topics covered</b>	Best practice examples and presentations of projects developing solutions to mitigate climate change and adapt to it. Practices and procedures of development of SECAPs in other areas in Croatia have been presented.
<b>Date</b>	25 <sup>th</sup> of June, 2021
<b>Location</b>	Dubrovnik
<b>Number of participants</b>	20

### Objective of the study visit

The main object of the study visit workshop was to show best practices to the stakeholders from other areas and share the ideas. The objective was to bring representatives working on different projects that can help and be implemented in the targeted area of city Dubrovnik and municipalities of Ston, Dubrovačko Primorje, Župa Dubrovačka and Konavle. Specific goal was to inform the stakeholder on possibilities of implementation of heat pumps using seawater to develop more efficient and cleaner heating and cooling systems. Using these types of technology can be implemented in district heating and cooling systems which can be beneficial for the densely populated areas like Dubrovnik. Another benefit is to remove the AC units from the walls in the old city which is under architectural conservation. The goal was to share the experiences from other projects dealing with innovative approach in SECAP development and to share experiences from other partners in Joint\_SECAP project.

### Description of the study visit activities

After registering and short meeting with all the participants, Boris Čosić presented experiences from SEADRION project in which they installed seawater heat pump in Thalassoterapia, Crikvenica, where it is used for heating the pool. He also presented the case of seawater heat pump, which was renovated in Rector's Palace, in the old center of Dubrovnik. It is a great example of using clean technology for heating and cooling within the areas under architectural conservation. Boris Čosić is the Director of Center for

Technology Transfer on Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb. He also presented the project ZEVinnovation that is dealing with electrification of naval transport which can help the area due to short naval lines connecting the mainland with smaller islands Koločep, Lopud, Šipan and Lokrum. Potentials of Blue energy potentials in Adriatic Sea were presented by Hrvoje Stančin, explaining what are the potentials, opportunities challenges and barriers for the implementation technologies exploiting energy of waves, wind and tides on the Adriatic Sea. Hrvoje Stančin from Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb is working on BLUE DEAL project. Project Upgrade DH was presented by Tomislav Pukšec, also from University of Zagreb, showing the opportunities for implementation of district heating and cooling systems in old city centres. Innovative approach for the development of Sustainable Energy and Climate Action Plans was presented, which is the aim of PentaHelix project. Experiences from Velika Gorica and Karlovac have been presented by Ana Lovrak from University of Zagreb. It was interesting to share experiences on development of joint of Sustainable Energy and Climate Action Plans from other Joint\_SECAP project partners to compare the results and challenges that occurred during the project implementation. Barbara Mirošević and Jasna Maričić represented the Vela Luka municipality which developed joint Plan for all the municipalities on the Korčula island. Korčula island is near Dubrovnik and is second most populated islands in Croatia. They mentioned the SENSUM, consulting company that helped them with the project development which was needed to analyse the data and develop best measures needed on island Korčula. Joint Plan for Brač island was developed by the project partner – Split – Dalmatia County. Their experiences were presented by Martin Bućan who expressed the importance of cooperation between all the local governments and their representatives and their will to actually implement the measures from which the local society can benefit.

## Results of the study visit workshop

Main interests of the participants were on the best solutions that were presented – technologies that utilize energy of seawater for heating and cooling and district heating and cooling systems. Stakeholders expressed their concerns about possibility to actually realise such projects due to architectural conservation. Also, they were interested if this technology would affect the looks of the old city. Some experiences showed it would actually help with aesthetics, removing the small AC units from the walls, and that it is possible to install those systems. The stakeholders believe that general public has a positive opinion on implementation of SECAP and following adaptation and mitigation measures which is most important precondition. All stakeholders agreed that the will of governing bodies and their cooperation and their representatives are the key to successfully implement joint action plans.

## Study visit agenda

**Petak, 25/06/2021**

### **Tehnička radionica i primjeri dobre prakse Dan 2.**

10:00 - 10:15 Registracija i pauza za kavu

10:15 - 10:35 Virtualni posjet instalacijama dizalica topline na morsku vodu u Kneževom dvoru i Thalassotherapy Crikvenica te ZEVinnovation projekt (Boris Čosić, CTT)

10:35 - 10:50 Potencijali plave energije na Jadranu i rezultati Blue Deal transferring LAB-a u RH (Hrvoje Mikulčić, FSB)

10:50 - 11:05 Mogućnosti korištenja pretvarača energije valova za zaštitu obale od erozije kroz Blue Deal projekt (Hrvoje Stančin, FSB)

11:05 - 11:20 Upgrade DH – grijanje i hlađenje pomoću DHC sustava u starim gradskim jezgrama (Tomislav Pukšec, FSB)

11:20 - 11:40 Iskustva primjene PentaHelix pristupa prilikom izrade SECAP-a za gradove Velika Gorica i Karlovac (Ana Lovrak, FSB)

11:40 - 11:55 Iskustva u izradi Joint SECAP-a za otok Korčulu (Predstavnik općine Vela Luka)

11:55 - 12:10 Iskustva u izradi Joint SECAP-a za otok Brač (Martin Bučan, SDŽ)

12:10 – 12:30 Pitanja i odgovori

12:30 - Ručak

## Photos



Visit to the seawater heat pump in historical and protected building



Presentation of best practice examples for implementation of adaptation and mitigation measures





Blue energy potential in the Adriatic



Heating and cooling in historic cities



Presentation of best practice examples for implementation of adaptation and mitigation measures



Audience during study visit workshop





Audience during study visit workshop



Presentation of best practices from other target areas in Joint\_SECAP project



Presentation of best practices from other target areas in Joint\_SECAP project

## Annex

   
Interreg  
Mediterranean  
 BLUE DEAL

BLUE DEAL - Blue Energy Deployment Alliance  
Mogućnosti iskorištenje plave energije

dr.sc. Hrvoje Mikulčić  
Sveučilište u Zagrebu, Fakultet strojarstva i brodogradnje



**Interreg**  EUROPEAN UNION  
**Mediterranean**  
 **BLUE DEAL**

Dubrovnik, 2021. Hrvoje Stančin, mag.ing.mech.  
 Fakultet strojarstva i brodograđnje, Sveučilište u Zagrebu



## SEADRION

Fostering diffusion of Heating & Cooling technologies using the seawater pump in the Adriatic-Ionian Region

Virtuelni posjet dizalicama topline morska voda – voda u zgradama javnog sektora: Pilot postrojenja projekta SEADRION u Hrvatskoj  
 Predstavljanje ZEVinnovation projekt

JOINT SECAP – Tehnička radionica i primjeri dobre prakse, *Dubrovnik, 25. lipanj 2021.*

**Boris Ćosić, dipl.ing.**  
 Centar za transfer tehnologije d.o.o.

## ZEVinnovation

STRENGTHENING TRANSNATIONAL COOPERATION,  
KNOWLEDGE AND TECHNOLOGY TRANSFER IN DEVELOPMENT  
OF ELECTRIC VESSELS AND FOSTERING INNOVATIONS IN SMES

### ZEVinnovation – Poticanje inovativnosti MSP-ova i transfer znanja i tehnologije u razvoju brodova nulte emisije stakleničkih plinova

JOINT SECAP – Tehnička radionica i primjeri dobre prakse, Dubrovnik, 25. lipanj 2021.

Boris Čosić dipl. ing. stroj.  
Centar za transfer tehnologije d.o.o.

Working together for a **green Europe**.

The ZEVinnovation project has been funded by Isoland, Liechtenstein and Norway through the EEA and Norway Grants Fund for Regional Cooperation. The content of the document is the sole responsibility of the Center of technology transfer Ito, and can under no circumstances be regarded as reflecting the position of the EEA and Norway Grants Fund for regional Cooperation.



## Iskustva u izradi Joint SECAP-a za otok Brač

JOINTSECAP | UPRAVNI ODJEL ZA GOSPODARSTVO, EU  
FONDOVE I POLJOPRIVREDU | Ana Goatti, Martin Bučan  
Ana Kaštelanac,

Radionica SDWES | Dubrovnik | 25 June 2021



# Upgrade DH – grijanje i hlađenje pomoću DHC sustava u starim gradskim jezgrama

Doc.dr.sc. Tomislav Pukšec





## PP6 – PRIMORJE-GORSKI KOTAR COUNTY

### General info

<b>Topics covered</b>	Virtual study visits to best practice examples – retrofitted school buildings in PGKC  Presentation of other best practice examples in key areas (water supply, mobility, energy efficiency measures for households)
<b>Date</b>	23/06/2021
<b>Location</b>	Hotel Jadran, Rijeka
<b>Number of participants</b>	16

*Please note: Local technical workshop and study visit were held as a joint event. However, in its descriptive part, this report covers only the “study visits” part of the event.*

### Objective of the study visit

The objectives of the workshop were:

- To present the **local examples** of successful energy, climate and mobility projects
- To **motivate** the local authorities to engage more strongly with the realization of the Joint SECAP plan measures, by showcasing how others have done it

### Description of the study visit activities

The workshop was attended by **representatives of all 5 municipalities of the Primorje-Gorski Kotar target area (City of Kastav, City of Opatija, Municipality of Čavle, Municipality of Matulji and Municipality of Viškovo) and related stakeholders** who participated in the development of the first Joint Sustainable Energy and Climate Action Plan – JOINT SECAP.

Given the current epidemiological situation related to the COVID-19 pandemic, even though the numbers of COVID positive persons are decreasing, it has been decided that no physical visits will yet be organized. Instead, a virtual study visit, or a virtual demonstration of best practices was held.

Different projects in the field of energy and water supply that have been implemented or are being implemented, were showcased:

**Director of the Regional Energy Agency Kvarner Mr. Darko Jardas**, in the form of a virtual visit, presented the project Energy renovation of primary and secondary schools in Primorje-Gorski Kotar County, the largest capital investment in education so far, within which 8 school buildings and 4 school sports halls from were renovated.

**Mrs. Antonia Tomas Stanković from the Hrvoje Požar Energy Institute** introduced the REPLACE project implemented within the Horizon 2020 program, which seeks to motivate end consumers to replace old and inefficient heating and cooling devices with more environmentally and financially acceptable solutions and implement different renovation measures. which reduce the total energy consumption of buildings.

Representative of local utility company **Liburnian Waters Ltd., Mr. Vedran Dorčić** presented the investments that were systematically implemented in order to improve the water and communal infrastructure of the Liburnian Riviera and stressed the importance of searching for the new natural sources of drinking water, since the whole region to the great amount relies on only one water source - Zvir.

As one of the examples of good practice, a map of the solar potential of the City of Koprivnica was presented, through which citizens can get information about the solar potential of the roofs of their own houses. **Mr. Zvonimir Perko, a representative of the Regional Energy Agency North** informed the attendees about the functionalities and possibilities of applying the map also to other municipalities.

**Prof. Vedran Kirinčić, PhD, from the University of Rijeka Faculty of Engineering** presented examples of different local projects in the transport & mobility sector with emphasis on electromobility and construction of EV infrastructure in the Primorje-Gorski Kotar County.

## Results of the study visit workshop

Based on the follow-up participants' feedback, workshop organization was considered a success. Participants were able to:



- Hear about different examples of best practices in the thematic fields relevant for Joint SECAP;
- Exchange experiences among each other (regarding the internal procedures in the SECAP adoption, previous CoM engagements, active and planned energy & climate projects, etc.)

The local authorities' representatives expressed their awareness that energy & climate plans such as Joint SECAP will surely be a necessity in the next financial period, but it will be important to secure funding for their implementation and ensure the step from planning to realization.

## Study visit agenda

 **Interreg**  
Italy - Croatia  
Joint\_SECAP   
EUROPEAN UNION

**JOINT\_SECAP**

**TEHNIČKA RADIONICA I PRIMJERI  
DOBRE PRAKSE**

**Predstavljanje Zajedničkog akcijskog plana energetske i  
klimatski održivog razvitka - JOINT SECAP**  
**(Grad Kastav, Grad Opatija, Općina Čavle, Općina  
Matulji i Općina Viškovo)**

**Srijeda, 23.6.2021.**  
**Hotel Jadran, Rijeka**

European Regional Development Fund [www.italy-croatia.eu/joint\\_secap](http://www.italy-croatia.eu/joint_secap)

## PROGRAM RADIONICE

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09:20 – 09:30	Registracija sudionika
09.30 – 09:40	Uvodni govor i predstavljanje programa radionice (Ana Vukušić, Primorsko-goranska županija)

### I. DIO: TEHNIČKA RADIONICA

09:40 – 10:10	Rezultati i naučene lekcije na Joint SECAP projektu (Ana Vukušić, Primorsko-goranska županija)
10:10 – 10:20	Predstavljanje Joint SECAP platforme - video
10:20 – 10:30	Primjer korištenja Joint SECAP platforme - unos jedne mjere (Lea Perinić, Regionalna energetska agencija Kvarner)
10.30 – 10.50	Mogućnosti financiranja iz EU fondova te Nacionalnog plana otpornosti i oporavka (Lea Perinić, Regionalna energetska agencija Kvarner)
10:50 – 11.05	Pauza za kavu
11.05 – 12.30	Seminar na temu procesa izrade SECAP-a (Jurica Perko i Ivana Derežić, Regionalna energetska agencija Sjever)
12.30 – 13.00	Predstavljanje Joint SECAP-a Grada Kastva, Grada Opatije, Općine Čavle, Općine Matulji i Općine Viškovo (Darko Jardas, Regionalna energetska agencija Kvarner)

13.00 – 13.45	Pauza za ručak
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### II. DIO: PRIMJERI DOBRE PRAKSE

13:45 – 14.05	Virtualni posjet energetske obnovljenim školama u Primorsko-goranskoj županiji (Darko Jardas, Regionalna energetska agencija Kvarner)
14:05 – 14:25	H2020 REPLACE - Učinimo grijanje i hlađenje u europskim kućanstvima učinkovitijima, ekonomičnijima, čistijima i klimatski prihvatljivijima (Antonia Tomas Stanković, Energetski institut Hrvoje Požar)
14:25 – 14:45	Poboljšanje vodno komunalne infrastrukture Liburnijske rivijere (Vedran Dorčić, Liburnijske vode d.o.o.)
14:45 – 14:55	Pauza
14:55 – 15:15	Mapa solarnog potencijala (Zvonimir Perko, Regionalna energetska agencija Sjever)
15:15 – 15:35	Elektromobilnost u Primorsko-goranskoj županiji (doc. dr. sc. Vedran Kirincic, Tehnički fakultet u Rijeci)

15:35 – 16:00	Zaključci radionice, diskusija
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## WORKSHOP AGENDA (IN ENGLISH)

09:20 – 09:30	Registration
09.30 – 09:40	Introductory speech and presentation of the workshop program (Ana Vukušić, Primorje-Gorski Kotar County)

### I. PART: TECHNICAL WORKSHOP

09:40 – 10:10	Results and lessons learned on the Joint SECAP project (Ana Vukušić, Primorje-Gorski Kotar County)
10:10 – 10:20	Presentation of the Joint SECAP platform - video
10:20 – 10:30	Example of using the Joint SECAP platform - entering one measure (Lea Perinić, Regional Energy Agency Kvarner)
10.30 – 10.50	Funding opportunities from EU funds and the National Resistance and Recovery Plan (Lea Perinić, Regional Energy Agency Kvarner)
10:50 – 11.05	Coffee break
11.05 – 12.30	SECAP preparation process seminar (Jurica Perko, Ivana Derežić, Regional Energy Agency North)
12.30 – 13.00	Presentation of the Joint SECAP plan of the cities of Kastav and Opatija and municipalities of Čavle, Matulji and Viškovo (Darko Jardas, Regional energy agency Kvarner)
13.00 – 13.45	Lunch break

### II. PART: STUDY VISIT & BEST PRACTICES

13:45 – 14.05	Virtual visit to renovated schools in Primorje-Gorski Kotar County (Darko Jardas, Regional Energy Agency Kvarner)
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14:05 – 14:25	H2020 REPLACE - Let's make heating and cooling in European households more efficient, economical, cleaner and more climate-friendly (Antonia Tomas Stanković, Hrvoje Požar Energy Institute)
14:25 – 14:45	Improvement of the water utility infrastructure of the Liburnian Riviera (Vedran Dorčić, Liburnia Waters Ltd.)
14:45 – 14:55	Break
14:55 – 15:15	Solar potential map (Zvonimir Perko, Regional Energy Agency North)
15:15 – 15:35	Electromobility in the Primorje-Gorski Kotar County (Assistant Professor Vedran Kirincic, PhD, University of Rijeka Faculty of Engineering)
15:35 – 16:00	Workshop conclusions, discussion

## Photos



**Mr. Darko Jardas, Virtual visit to renovated schools in Primorje-Gorski Kotar County**



**Mr. Vedran Dorčić: Improvement in water and utility infrastructure in the territory of the Liburnia Riviera**



**Ms. Antonia Tomas Stanković: H2020 REPLACE - Let's make heating and cooling in European households more efficient, economical, cleaner and more climate-friendly**





**Mr. Zvonimir Perko, Solar potential map**



**Vedran Kirinčić, PhD: Electromobility in the Primorje-Gorski Kotar County**



## Annex

Presentations' print screens:




 **Interreg**  
Italy - Croatia  
Joint\_SECAP   
EUROPEAN UNION

 **Poboljšanje  
vodno-komunalne  
infrastrukture  
Liburnijske rivijere**  

Vedran Dorčić, mag. ing. el., Liburnijske vode d.o.o.

 **Liburnijske vode d.o.o.**

 **Regionalna  
energetska  
agencija Sjever**

**Mapa solarnog potencijala**

JOINT\_SECAP: Tehnička radionica i primjeri dobre prakse

Rijeka, 23.06.2021.

**UPORNI  
DOSLJEDNI  
POUZDANI**

## Tehnička radionica i primjeri dobre prakse

### Elektromobilnost u Primorsko-goranskoj županiji



Assist. Prof. Vedran Kirincic, PhD

[vedran.kirincic@riteh.hr](mailto:vedran.kirincic@riteh.hr)

Sustainable energy / Mobility expert  
Faculty of Engineering, University of Rijeka, Croatia  
<https://www.linkedin.com/in/vedrankirincic/>



## PP7 – COUNTY OF SPLIT-DALMATIA

### General info

<b>Topics covered</b>	Day 2 started with a study visit to electrical charging station in Sutivan municipality along with the promotion of e-mobility that enabled participants to test drive an electrical vehicle. The workshop further on showed good practice examples and experiences in dealing with climate change issues (GIS, other online platforms etc.).
<b>Date</b>	11.06.2021.
<b>Location</b>	Sutivan and Supetar
<b>Number of participants</b>	More than 40 in Sutivan 28 participants on Day 2 – in Supetar

### Objective of the study visit

The main objective of the study visit was promotion of e-mobility since its one of the most important measures for GHG emission reduction in transport sector.

### Description of the study visit activities

The promotion took place at Sutivan and included a presentation of an electrical vehicle (Renault ZOE Twingo E-TECH) as well as test drives that could be performed by the participants themselves. Participants also visited a parking lot in Sutivan that is equipped with a charging station for electrical vehicles. The charging process was explained and directly presented.

The workshop further on consisted of several presentation which were mainly focused on good practice examples. Mr Bućan firstly presented lessons learnt from Joint SECAP followed by the presentation of Mr

Močnik on GIS options supporting decision making of local governments. Mr Sekovski, Programme Officer from PAP RAC, showed AdriAdapt online adaptation platform and how it can help municipalities, cities and counties in their adaptation goals. A representative from the Public authority for coordination and development of Split-Dalmatia County (RERA), Mr Novak presented their experiences in developing climate change adaptation plans. Since public lighting is one the sectors analysed and considered within the SECAP's mitigation domain, implementation of modern technologies in public lighting is relevant. Thus, Mr Samardžić from ELOS Ltd, a company dealing with the design and construction of public lighting systems, was invited to the workshop to share his knowledge and expertise in this regard. Two lecturers participated online – Mr Mikulčić, a researcher at the Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb and Mr Vajdić, senior researcher from the Energy Institute Hrvoje Požar. Mr Mikulčić presented the BLUE-DEAL project and accompanying activities while Mr Vajdić focused on EGP financing options for renewables. Day 2 to also ended with a fruitful discussion.

With regards to participants' structure, apart from the local authority staff, other representatives were present as well such as representatives from energy company HEP (national energy company, which has been dealing with generation, distribution and supply of electricity), water supply utility, automobile house selling electrical vehicles on the market, company dealing with the design and construction of public lighting, climate change external consultants etc.

## Results of the study visit workshop

The highlight of Day 2 was the study visit aimed at promoting e-mobility. Participants were given the opportunity to actually test drive an electrical vehicle and were presented with the whole process of charging and driving electric car. Good practice examples were very much welcomed since they provided a broader overview of climate change related aspects



## Study visit agenda



### JOINT\_SECAP

## TEHNIČKA RADIONICA I PRIMJERI DOBRE PRAKSE

**“Predstavljanje SECAP-a za područje Otoka Brača,  
primjera dobre prakse i mogućnosti za provedbu mjera”**

**Supetar, Bluesun Holiday Village Velaris – Supetar**

**Konferencijska dvorana „Velaris“**

**Put Vele Luke 10, 21400, Supetar**

**Petak, 11/06/2021**

## **Tehnička radionica i primjeri dobre prakse**

### **Dan 2.**

**10:00 - 11:30** Site visit – promocija razvoje e-mobilnosti prezentacija Renault ZOE Twingo E-TECH i mogućnost vožnje istih(Auto kuća Gašperov), Sutivan, parking na Pjoveru

**11:30 - 11:50** Registracija i pauza za kavu

**11:50 - 12:20** Naučene lekcije na Joint\_SECAP projektu (Damir Čarić, Martin Bućan, Ana Goatti)

**12:20 - 12:40** Mogućnosti GIS-alata kao pomoć JLS-ovima u donošenju odluka – (Ivan Močnik, Promet i prostor d.o.o.)

**12:40 - 13:00** Prezentacija AdriAdapt online platforme za prilagodbu općina, gradova i županija na klimatske promjene (ADRIADAPT – Ivan Sekovski, PAP RAC)

**13:00 - 13:20** "Iskustva u izradi Plana prilagodbe na klimatske promjene - Change we care" ( Mili Novak, RERA)

**13:20 - 13:40** „Primjena modernih tehnologija u javnoj rasvjeti kao odgovor na svjetlosno onečišćenje“( Zoran Samardžić, ELOS)

**13:40 – 14:00** Mogućnosti iskorištenje plave energije(Hrvoje Mikulčić, BLUE DEAL)-online

**14:00 - 14:20** „Mogućnosti financiranja obnovljivih izvora energije kroz financijski mehanizam Europskog gospodarskog prostora“ (Matija Vajdić, EIHP) -online

**14:20 – 14:35** Pitanja i odgovori

**14:35 - Ručak**

## Photos



Presentation of Mr Sekovski from PAP RAC on AdriAdapt online platform – Day 2



Study visit to electrical charging station in Sutivan and a presentation of an electrical vehicle and the process of charging – Day 2





Electrical vehicle test drive by participants – Day 2



Presentation of Mr Močnik from Promet and Prostor– Day 2

## Annex

# TEHNIČKA RADIONICA

**Evaluacija provedbe joint\_SECAP projekta naučene lekcije**

**Martin Bučan**

Splitsko-dalmatinska županija

Radionica Supetar| 11.06. 2021.

European Regional Development Fund

## Presentation no 1 – Day 2

  
**PROMET I PROSTOR**

**Mogućnosti GIS-alata kao pomoć JLS-ovima u donošenju odluka**



*„Predstavljanje SECAP-a za područje Otoka Brača, primjena dobre prakse i mogućnosti za provedbu mjera”  
Supetar, 10.6.-11.06.2021.*

*Predavač: Ivan Močnik, mag. ing. traff.*

   
EUROPEAN UNION

## Presentation no 2 – Day 2



## AdriAdapt platforma za prilagodbu jadranskih općina, gradova i županija

AdriAdapt | PAP/RAC | Ivan Sekovski

JointSECAP konferencija Supetar | 11 lipnja 2021

European Regional Development Fund

Presentation no 3 – Day 2

### JOINT\_SECAP TEHNIČKA RADIONICA I PRIMJERI DOBRE PRAKSE

Lipanj, 2021, Supetar, Hrvatska

**Iskustva u izradi Plana prilagodbe na klimatske promjene**  
**Projekti Co-evolve i Change we care**

Martina Baučić i Mili Novak  
Sveučilište u Splitu – FGAG, RERA

11/06/2021

1

Presentation no 4 – Day 2



Presentation no 5 – Day 2



Presentation no 6 – Day 2

   
*Mediterranean*  
 BLUE DEAL

Iceland  
Liechtenstein  
Norway grants

 EIHP

## Funding opportunity for implementation of Blue Energy technology

Presenter  
Matija Vajdić  
mvajdic@eihp.hr

2<sup>nd</sup> BLUE DEAL Transferring Lab – Split/Croatia | 18-21 May 2021

Presentation no 7 – Day 2

## PP8 – MUNICIPALITY OF VELA LUKA VIDEO

### General info

<b>Topics covered</b>	Examples of good practice in implementing energy efficiency measures and reducing CO <sup>2</sup> emissions.
<b>Date</b>	08.06.2021.
<b>Location</b>	Vela Luka, island of Korčula
<b>Video length</b>	11:10 min

### Objective of the study visit

Following the Task 2.3. of Joint SECAP project, the objective of the study visit was to show examples of good practice in implementing energy efficiency measures and reducing CO<sup>2</sup> emissions on island of Korčula. During the study visit participants could get familiar with photovoltaic panels and solar collectors in houses as well as touristic eco-houses and e-mobility, their benefits and procedures to implement such measures.

### Description of the study visit activities

The study visit started with presentation of Mrs Ivana Cetinić, on behalf of Novi otok association. The Novi otok association have a great experience with implementation energy efficiency measures since they were partners of Vela Luka Municipality in realization of the previous action plan SEAP. Mrs Cetinić presented some good practice examples aiming at improving the livelihood of islanders.

After the Study visit presentation the field trip was organized in Vela Luka vicinity and Lumbarda. In Vela Luka, participants visited two private houses where solar collector and photovoltaic panel were installed and hence were able to see and ask first-hand on the experience, benefits, challenges etc. In Lumbarda, participants were presented with the electrical charging station and a tour through the eco house.

The participants' structure was diverse consisting of the local authority staff as well as other representatives from the local development agency, tourist boards, health care sector and other municipal companies.

## Results of the study visit video

The main outcome from the study visits video is presenting a direct overview of potentials, benefits, and challenges with implementation of energy efficiency activities. The main interests shown in this video are great potential of solar energy considering the number of sunny days per year for the island of Korčula. Good practice examples were specifically presented.

## Annex

[https://m.facebook.com/JointSecap/videos/-pogledajte-video-izvje%C5%A1taj-sa-study-visita-u-veloj-luci-u-sklopu-tehni%C4%8Dke-radio/524958638868161/?\\_tn=-R](https://m.facebook.com/JointSecap/videos/-pogledajte-video-izvje%C5%A1taj-sa-study-visita-u-veloj-luci-u-sklopu-tehni%C4%8Dke-radio/524958638868161/?_tn=-R)



## PP8 – MUNICIPALITY OF VELA LUKA WORKSHOP

### General info

<b>Topics covered</b>	Examples of good practice in implementing energy efficiency measures and reducing CO <sup>2</sup> emissions.
<b>Date</b>	08.06.2021.
<b>Location</b>	Vela Luka, island of Korčula
<b>Number of participants</b>	21 participants

### Objective of the study visit

Following the Task 2.3. of Joint SECAP project, the objective of the study visit was to show examples of good practice in implementing energy efficiency measures and reducing CO<sup>2</sup> emissions. During the study visit participants could get familiar with photovoltaic panels and solar collectors in houses as well as touristic eco-houses and e-mobility, their benefits and procedures to implement such measures.

### Description of the study visit activities

The study visit started with presentation of Mrs Ivana Cetinić, on behalf of Novi otok association. The Novi otok association have a great experience with implementation energy efficiency measures since they were partners of Vela Luka Municipality in realization of the previous action plan SEAP. Mrs Cetinić presented some good practice examples aiming at improving the livelihood of islanders.

After the Study visit presentation the field trip was organized in Vela Luka vicinity and Lumbarda. In Vela Luka, participants visited two private houses where solar collector and photovoltaic panel were installed and therefore were able to see and ask first-hand on the experience, benefits, challenges etc. In Lumbarda, participants were presented with the electrical charging station and a tour through the eco house.

The participants' structure was diverse consisting of the local authority staff as well as other representatives from the local development agency, tourist boards, health care sector and other municipal companies.

## Results of the study visit workshop

The study visit was very fruitful because it provided the participants a direct overview of potentials, benefits and challenges of various activities. Considering the number of sunny days per year for the island of Korčula, potentials of solar energy and good practice examples were specifically presented.

## Study visit agenda

JOINT\_SECAP

PRIMJERI DOBRE PRAKSE  
|  
STUDY VISIT

Konferencijska dvorana Hotela Korkyre  
Vela Luka

Utorak, 08.06.2021.

Općina Vela Luka

**Utorak, 08/06/2021**

## **Study visit - Primjeri dobre prakse**

**14:00-14:15** Registracija

**14:15-14:45** Predstavljanje primjera dobre prakse – Udruga Novi otok (Ivana Cetinić, Novi otok)

**15:00-18:00** Obilazak (Fotonaponski sustav za zagrijavanje vode – Vela Luka, Fotonaponska elektrana na obiteljskoj kući – Uvala Nova, Eko kuća i električna punionica automobila – Općina Lumbarda)

## Photos



Study visit participants



Study visit - solar collector on house rooftop in Vela Luka





Study visit - solar photovoltaic panel serving as garage rooftop in Vela Luka



Study visit –Eco house in Lumbarda



Study visit – Electric charging station in Lumbarda

## Annex

Udruga Novi otok



novi otok

Presentation on good practice examples