



Project co-financed by the European Regional Development Fund



# A policy for Mediterranean Buildings

The path of the Efficient Buildings Community has now arrived to a crucial step. The Modular Projects have delivered the majority of their outputs and the Horizontal Project, MEDNICE, has now to review, synthesize and capitalize them.

Some months ago, IREC published the first technical paper on financing schemes. The document analyses the activities of the modular projects that developed solutions for the facilitation of financing energy efficiency investments in public buildings. The paper identified four main types of barrier for a full deployment of financial schemes such as Energy Performance Contracting (EPC):

- **structural barriers**, like non-standardized procedures at local level or conflicts of jurisdiction.
- **technical barriers**, such as lack of data on buildings
- **financial barriers**, like the reluctance of banks to take the risk of EE investments, or the limited capacity of local authorities in terms of budget constraints and human resources
- **knowledge barriers**, such as general lack of information on EPC and a lack of trust among public authorities and energy service providers

Partially based on the first findings of the technical paper, CMCC delivered a first policy paper on financing energy efficiency in public buildings. The document analysed the current European policy framework on this issue, it reviewed the new National Energy and Climate Plans (NECPs) and it explained how the results of the Modular Project can fit within this context. Finally The document includes five main policy recommendations:

1. **Integrate local level into policy development**, or at least clarify and ease implementation procedures between national and local level.

2. **Enforce systematically energy audits** for all public buildings in order to provide a complete information on the status of the public building stock, necessary to take any financial decision.
3. **Do not replicate policy schemes and instruments without adapting to local climate condition and energy use habits.** There is not a one-size-fits-all solution and Mediterranean regions use energy in different ways compared to Northern European countries (e.g. cooling in summer instead of heating in winter).
4. **Enforce a capacity building and awareness raising programme for local administrators**
5. **Prefer cost-effective and flexible policy schemes** such as white certificate market. It allocates efficiently the cost of measures among actors.

The technical paper and the policy paper on financing can be downloaded on our website ([click here](#)). More papers will be published in the next months and presented in the final conference of the Efficient Buildings Community in Brussels the next 10 October 2019.

## SAVE-THE-DATE!

10 OCTOBER 2019 - BRUSSELS

MED - Mediterranean Energy Debate

On 10 October 2019 the Efficient Buildings Community will organize its final conference in Brussels during the European Week of Regions and Cities. The event will be an occasion to present and capitalize the results of the Modular Projects in the European policy arena.



## CESBA MED

<https://cesba-med.interreg-med.eu/>

### CESBA awarded the most sustainable neighborhoods in Europe

CESBA MED organized the 1st CESBA Neighborhood Award 2019. Representatives of the project CESBA MED honoured the winners during the Sustainable Built Environment Conference 2019 in Scilla, Italy.

The neighborhood award was a competitive challenge for urban areas in three categories. 23 Submissions from 7 different European countries applied for the Award. Finally 4 winners and 3 honorable mentioned projects were assigned:

#### Category AREAS UNDER A PLANNED OR PROJECT PHASE RETROFITTING

- **Winners:** El Cabanyal (València, Spain) and Center Schnifis (Vorarlberg, Austria)
- **Honorable Mention:** Macrolotto Zero (Toscana, Italy)

#### Category EXISTING RETROFITTED AREA

- **Winner:** Strubergasse (Salzburg, Austria)
- **Honorable Mention:** Centre Krizevci (Križevci, Croatia)



The winners of CESBA Neighborhoods Award

#### Category NEW DEVELOPMENT

- **Winner:** Zac Castellane (Auvergne Rhône-Alpes, France)
- **Honorable Mention:** Sonod in Belley (Auvergne-Rhône-Alpes, France)

Each participant received a respective certificate and award booklets. In ongoing regional and local exhibitions from May – October 2019 the Award participating projects are shown to public. A dedicated time slot for presentation during the World Sustainability Built Environment Conference in Gotenburg in June 2020 is a further benefit to the participating projects.

[Click here to check all winning projects](#)

## ENERJ

<https://enerj.interreg-med.eu/>

### ENERJ launched the ENERJ web platform

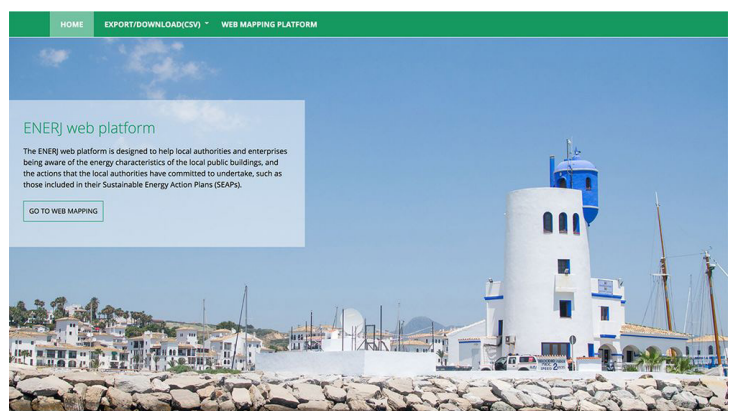
The ENERJ web platform is :

- A collection of data on local public building stock, to explore the possibility of implementing energy efficiency interventions;
- A dynamic database updated by the partners and the municipalities through controlled access that allows the public and the investors (ESCO), to know the state of the art of the public buildings regarding their state of efficiency.
- An updated database containing information on the actions envisaged by the SEAPs

The web platform is populated by data on buildings and SEAPs coming from ENERJ

partners and it can be openly accessed by local authorities, civil servants, investors or the general public to download data in CSV open data format.

[Click here to enter the platform](#)



The interface of ENERJ webplatform





## EDUFOOTPRINT

<https://edufootprint.interreg-med.eu/>

### EduFootprint as come to an end

In the final stage of EduFootprint project, the focus was on the transference of the EduFootprint model and results at local, national and transnational levels. Following the initial strategies designed for the transference of the results in the different pilot areas and transnationally, the partners organised and participated in several events and training actions. After the project testing activities with the schools/universities, there was an assessment of the environmental, social and economic impacts of the tested model. As regards the environmental impact, measuring the environmental footprint helped school organisations to identify the most relevant areas to improve with a life cycle approach and to plan those actions aimed at reducing the footprint. These actions produced positive social-economic impacts for the local communities: sustainable governance for policymaking, support for the growth of local communities, awareness of climate change, strengthening of the education community.

### The carbon footprint calculator for schools is out!

EduFootprint Project delivered the final version of its calculator to measure the environmental footprint of Mediterranean schools.

The user has to enter the data for 15 indicators covering the energy consumption of the building, the consumption of products, the mobility of students and teachers, food and waste. The calculator is calibrated the emission factors of the following countries: Spain, Portugal, Slovenia, Greece, Albania and Italy.

[Download the calculator and measure the environmental footprint of your school!](#)

## SHERPA

<https://sherpa.interreg-med.eu/>

### A joint plan for the Mediterranean

One of SHERPA's main outcomes is the Joint Action Plan on Energy Renovation in Mediterranean Buildings (JAP ERB). Coordinated by the CPMR-IMC, the Government of Catalonia and the CRES, it draws on the results of SHERPA, together with other EU, national, regional & local programmes and initiatives on ERB in the MED area.

The JAP is a common framework to streamline the policies of regions and match the needs of other stakeholders in the field of Energy Renovation and promoting investments and employment through ERB projects. The JAP develops a strategical axis (governance; training & knowledge; information systems; networking; and funding) that will be put into effect by the operational axis.

Its multilevel governance actions will be based on the current level of coordination and improvements needed to implement national strategies on ERB within the framework of EU directives. The other strategic topics will be developed into operative actions through a "Market Place" and new projects.



Last Steering Committee of SHERPA (Dubrovnik) where partners discussed the content of the JAP ERB



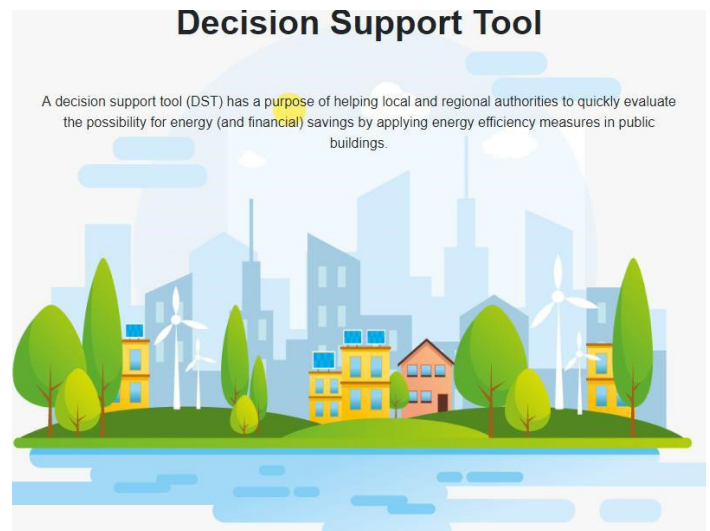
## PrioritEE

<https://prioritee.interreg-med.eu/>

### A Tool to support energy managers

PrioritEE is coming to its end! One of the main outcome is the PrioritEE Toolbox aimed to gather the knowledge acquired throughout the project in terms of technologies, decision support tools, good practices and strategies in one common platform. The Toolbox was co-developed, tested and finalized based on concrete experiences in five pilots in the partner regions, focusing on a diversified portfolio of local priorities and covering several key energy issues.

In particular, the **Decision Support Tool (DST)** has proven to be of great help to local administrations, both within and outside the Mediterranean area, to assess the cost-effectiveness of a predefined set of Energy Efficiency and Renewable Energy Sources measures and prioritize investments in terms of costs, energy savings and avoided CO<sub>2</sub> emissions. A tutorial helps new users to improve energy management of municipal public buildings.



The Homepage of PrioritEE's Decision Support Tool

The toolbox is freely available both in English and in five European languages (Italian, Portuguese, Spanish, Greek and Croatian) on the project website.

[Have a look to the Decision Support Tool!](#)

## STEPPING

<https://stepping.interreg-med.eu/>

### STEPPING is ready to tender

STEPPING project is coming to the end: the final conference will be held in Athens the 25th of October. Up to now most of the partners are finalizing the Investment Plans for the energy refurbishment of about 200 public buildings located in 80 municipalities.



Networking activity with PROSPECT Horizon project

The Energy Agency of Modena, has already awarded an EPC tenders with a bundling approach involving 7 municipalities and 63 public buildings, with a total investment of 6,3 M€ and a 30% of guaranteed energy saving. Two other partners: Piemonte Region and Aegean Energy Agency, are expected to do it after summer. During the last months the partners have organized several training courses on EPC addressed to different targets: public officers, professionals and ESCOs. The efforts are now focused on the draft of EPC MED guidelines, aiming to adapt the application of EPC scheme to MED specific context, and on the finalization of the Policy Recommendations, in order to support a larger implementation of EPC in the MED Area.

[More info on STEPPING website](#)



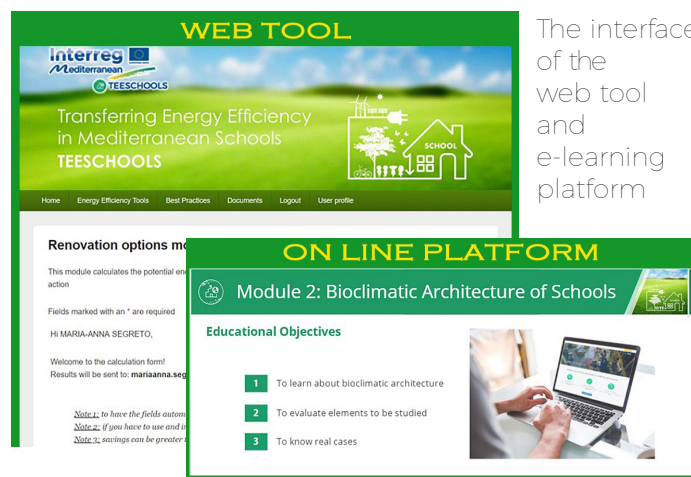
## TEESCHOOLS

<https://teeschools.interreg-med.eu/>

### Energy efficiency starts from schools

TEESCHOOLS aims to facilitate non-experts on calculating the energy efficiency of public buildings, to familiarize professionals and students with energy efficiency methodology and to contribute in behavioral change of pupils. The project realized these objectives by developing a user-friendly **web tool** for technicians and school staff, adapted to single climate zone. Moreover, TEESCHOOLS developed an **e-learning platform** with 13 modules on sustainable renewable solutions in schools, thermal, photovoltaic solar energy, geothermal and micro cogeneration, practical application cases. So far, the project carried out 10 open lessons (with short pre-

sentations, videos and energy games) in the pilot schools of the 7 participating countries to raise the awareness of students and teachers on the issue of energy.



The interfaces of the web tool and e-learning platform

## IMPULSE

<https://impulse.interreg-med.eu/>

### 3 simple steps to plan energy renovation

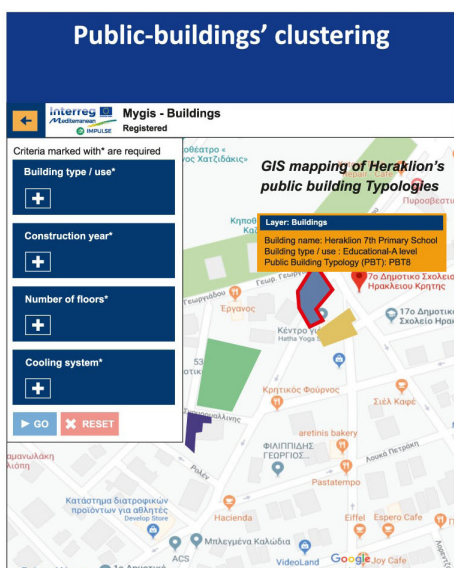
Close to its conclusion, IMPULSE project offers a set of practical tools for the automated generation of realistic and affordable plans for gradual energy upgrading of public buildings:

**Classification of the building stock.** A practical guide for the classification of buildings into representative typologies based on characteristics that influence the energy performance, for the selection of a representative “Ambassador” buildings from each

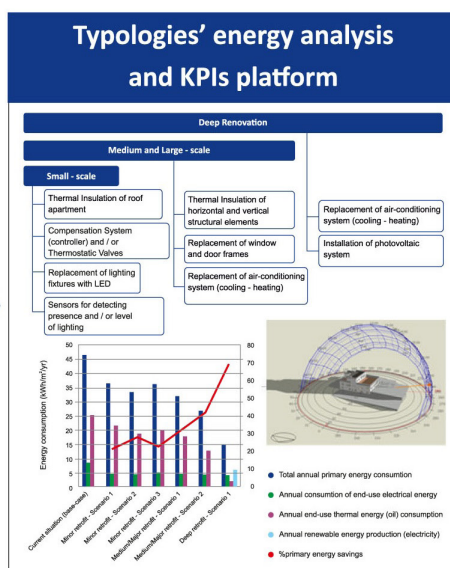
Typology and for GIS mapping of buildings. **Energy performance indicators’ platform.** A computational tool that processes the energy indicators of “Ambassador” buildings (obtained by energy simulations) and extrapolates indicators to the whole stock of buildings.

**Buildings’ prioritization platform.** A Computational decision-making tool for the hierarchy of buildings and energy-upgrading projects in annual basis in the long-term (Public buildings’ gradual energy renovation plan).

### Public-buildings’ clustering



### Typologies’ energy analysis and KPIs platform



### Decision-making for gradual renovation planning

Name of excell PILOT CITY file: D3-4.1_KPIs_Heraklion_ENG_rev1.xlsx			
	Weight factor	Measures	
23. Total annual primary energy savings - kWh/m²/yr	30	kWh/m²/yr	
35. Total annual avoided CO <sub>2</sub> emissions - kg/m²/yr	20	kg/m²/yr	
44. Annual savings of total energy - related operational cost - National	20	National Currency / m²/yr	
54. Total investment cost per total annual energy saved - National	20	National Currency / (kWh/m²/yr)	
55. Simple Payback period - yr	10	yr	

Building Typology	Option	Penalization (+30%)
PBT1	Deep retrofit	0%
PBT2	Deep retrofit	0%
PBT3	Deep retrofit	0%
PBT4	Deep retrofit	0%
PBT5	Deep retrofit	0%
PBT6	Deep retrofit	0%
PBT7	Deep retrofit	0%
PBT8	Deep retrofit	0%
PBT9	Deep retrofit	0%
PBT10	Deep retrofit	0%

Minor retrofit	Medium retrofit	Major retrofit	Deep retrofit
PBT1	✓	✗	✓
PBT2	✓	✗	✓
PBT3	✓	✗	✓
PBT4	✓	✗	✓
PBT5	✓	✗	✓
PBT6	✓	✗	✓
PBT7	✓	✗	✓
PBT8	✓	✗	✓
PBT9	✓	✗	✓
PBT10	✓	✗	✓

5%	%	Relative retrofit area annually	Up to 20 - year plan
110,583,570	m²	Total floor area	2
5,529	m²	Retrofit area annually	2
	Year		
Floor area retrofitted	m²	6,940.00	7,725.00
Annually investment	€	1,111,422	1,028,250
Savings - currency	€	28,662	28,224
Savings - CO <sub>2</sub>	kg/a	199	194
Savings - kWh	kWh/a	541,823	538,264

The flowchart of IMPULSE methodology: first the classification, then the measurement and finally the decision





## NEXT EVENTS.

READ THE FULL CALENDAR

<https://teamup.com/ks3igafk2z6w6pa8ns>



Modular Project  
Events



Horizontal Project  
Events



Interreg MED Programme  
Events

11  
SEP  
2019

**TURIN (Italy)**

**CESBA MED** Final Conference

**THESSALONIKI (Greece)**

**ENERJ** Final Conference

25-26  
SEP  
2019

**LEFKOSIA (Cyprus)**

**TEESCHOOLS** 6th Project  
Meeting

10  
OCT  
2019

**BRUSSELS (Belgium)**

**MEDNICE** "MED - Mediterra-  
nean Energy Debate. The chal-  
lenge of local energy gover-  
nance: the concrete solutions  
of the MED Efficient Buildings  
Community"

24  
OCT  
2019

**ATHENS (Greece)**

**Interreg MED Programme**  
"MED for YOU - Unfolding  
a strong narrative for policy  
change"

25  
OCT  
2019

**ATHENS (Greece)**

**STEPPING** Final Conference

19-21  
NOV  
2019

**BARCELONA (Spain)**

**SHERPA** Final Event + 8th Ste-  
ering Committee

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