

# TEESCHOOLS

## Transferring Energy Efficiency in Mediterranean Schools

**PRIORITY AXIS:** Fostering Low-carbon strategies and energy efficiency in specific MED territories: cities, islands and remote areas

**OBJECTIVE:** 2.1 To raise capacity for better management of energy in public buildings at transnational level

**DELIVERABLE NUMBER:** 5.1.1

**TITLE OF DELIVERABLE:** Implementation Strategy  
**WP n. 5: CAPITALISING**

**ACTIVITY n. 5.1. WP coordination and monitoring of the impacts**  
**5.1.1 Implementation strategy**

**PARTNER IN CHARGE:** FVMP

**PARTNERS INVOLVED:** ALL PARTNERS

Status:

Draft	Final X	Version
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## 1. INTRODUCTION

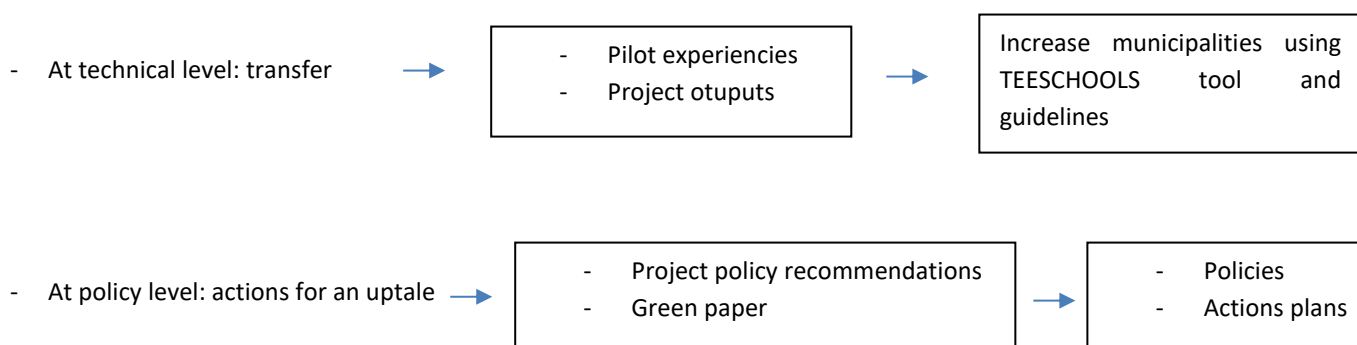
With the capitalization activities the last work package of the TEESCHOOLS European project begins and the findings will be presented outside the scope of project partners. This means moving from the first module with actions addressed to partners and actors who participated in testing and transferring activities to the second module where targets group are beyond partner level.

For this reason it is important to identify what it has been tested and transferred previously to implement actions in this work package. The capitalization includes main activities on capitalizing TEESCHOOLS methodology, integration of results in the action plans, open lessons and networking the results.

## 2. AIM

Capitalization work package has the objective of extending and widen the results and outputs obtained in previous phases to include in wider energy policies.

The objective a different level:



To include the findings and the results in wider energy policies

Such as - Sustainable Energy Action Plans  
- Policy recommendations



Beyond partner level, these could be finally taken into consideration and be implemented



Institucional networks, memorandum of understanding, agreements, etc.

### **3. PARTNERS AND RESOURCES**

#### **3.1 PARTNERS, ROLE, INVOLVEMENT**

In this last phase of the TEESCHOOLS project the Capitalization work Package will be guided by FVMP and the rest of partners will have an important role.

PARTICIPATING PARTNERS	INVOLVEMENT	ROLE
FVMP	RESPONSIBLE PARTNER	INSTITUCIONAL
ENEA	IMPORTANT	TECHNICAL
CYPRUS ENERGY AGENCY	IMPORTANT	TECHNICAL
CONSORCI DE LA RIBERA	IMPORTANT	TECHNICAL
CITY OF SPLIT	IMPORTANT	INSTITUCIONAL
DDIP	IMPORTANT	INSTITUCIONAL
EGTC EXFINI POLI	IMPORTANT	INSTITUCIONAL
HEP ESCO LTD	IMPORTANT	TECHNICAL
MUNICIPALITY CASTEL SAN PETRO	IMPORTANT	INSTITUCIONAL
CMAR PACA	IMPORTANT	INSTITUCIONAL
LIVING PROSPECTS	IMPORTANT	TECHNICAL

Partners involvement:

Technical partners:

- producing material
- different technical interventions and simulations

Institutional partners:

- events and forums
- work on setting up networks, agreements and action plans

## 3.2 FINANCIAL RESOURCES

Table below summarizes available financial resources after reallocation for every partner but before approval by JS.

PARTNERS	RESOURCES FOR WP5
FVMP	101.447,50
ENEA	78.433,98
CYPRUS ENERGY AGENCY	86.022,74
CONSORCI DE LA RIBERA	62.999,80
CITY OF SPLIT	58.895,00
DDIP-ZDC	68.707,50
EGTC EXFINI POLI	85.651,59
HEP ESCO LTD	34.323,20
MUNICIPALITY CASTEL SAN PETRO	85.370,00
CMAR PACA	87.544,20
LIVING PROSPECTS	57.684,89

## 4. TARGET GROUP

The target group of Capitalization WP are mainly beyond partner level. They will be:

TARGET GROUP
LOCAP PUBLIC AUTHORITIES
REGIONAL PUBLIC AUTHORITIES
NATIONAL PUBLIC AUTHORITIES
TEACHERS
STUDENTS
TECHNICAL STAFF
SECTORIAL AGENCY
HIGER EDUCATION AND RESEARCH
BUSINESS SUPORT ORGANIZATION
GENERAL PUBLIC

## 5. ACTIVITIES

Valencian Federation of Municipalities and Provinces defines in this document the global Strategy to implement in this WP, what/how/timing for a logical interpolation of the different type of networking, capitalization actions with PPs specific requirements, the deliverable's deadlines. Day to day WP implementation will be verified: timing, singular tasks, quality, deliverables.

The Capitalizing work package will include this king of activities:

Transferring knowledge

Know –how

Expertise

Systems

Processes

The descriptions of the main activities and sub-activities of this phase are:

### 5.2 Capitalizing TEESCHOOLS methodology

#### Objective

To integrate TEESCHOOLS methodology in activities, studies and action plans of several stakeholders.

#### Description

E-learning modules, report on e-learning design format and e-learning courses will be integrated in this point.

**\* It begins in November 2018 and ends in January 2020**

Below are elements of the activities. Particular aspects for each activity will be given at the start of each activity.

#### 5.2.1 e-learning modules

- \* At least 10.
- \* Parts: presentation, text, video lesson, self-assessment questionnaire
- \* They will be targeted to professionals, researchers and other stakeholders
- \* can be followed by the involved regions as well as other locations

E-learning modules will integrate TEESCHOOLS methodology in this possible thematic:

- The normative context. EU directives
- Bioclimatic architecture of schools
- Energy audits in schools
- Calculation and monitoring tools. Webtool TEESCHOOLS
- Calculation and monitoring tools. Carbon foot print
- Maintenance and management of energy in schools
- Innovative approaches. Windows, Lighting, ventilation
- Innovative approaches. High energy efficiency systems in schools
- Sustainable renewable solutions in schools. Thermal and Photovoltaic solar energy
- Sustainable renewable solutions in schools. Geothermal and micro cogeneration
- Financial solutions for school's renovation. Public-private partnership.
- Smartchools and mobility
- Circular economy and behavioural change at schools
- Others

### **5.2.2 Report on e-learning design format**

- \* A common format will be developed for each module

### **5.2.3 E-learning courses**

- \* They will involve around 1000 professionals and experts
- \* An E-learning platform will be open and will help disseminating findings of the Project
- \* A final e-learning course evaluation will be provided



E-learning modules and courses must be developed according to MOOC (Massive Online Open Course) in order to have access to quality education suitable each student and without having to leave their workplace.

Some possible MOOC platforms to use:

- MIRIADA X- European Mooc Committe. Institucional MOOC.
- WEMOOC. You can get different profiles: course creator, editor, teacher, validator
- OpenMooC. Platform used by educational entities
- ClassOnLive. Commercial platform. Very useful platform to elaborate Webinars, workshops, etc.

## 5.3 Integration of results in the actions plans

### Objective:

To integrate results and findings in renovation plans, policy recommendations, green paper and public forum.

### Description

Once the energy profile of the tested buildings has been defined, findings and results, together with best practices from databases, will be the reference to renovation plans and policy recommendations. A green paper will integrate approaches and methods from different actors and a public forum will be useful for sharing the project outputs.

**\* It begins in October 2018 and ends in September 2019**

Below are elements of the activities. Particular aspects for each activity will be given at the start of each activity.

#### 5.3.1 Green paper on energy efficiency in the schools buildings

- \* Relevant stakeholders and experts
- \* Sharing views, systems, opinions
- \* Open consultation of the report

#### 5.3.2 Forum with Mayors and Deans

- \* Main political actors of the school's buildings and related policies

### 5.3.3 Renovation plan for tested buildings

- \* It will be an action plan for the schools involved in the testing phase
- \* 7 action plans
- \* energy optimization behaviours, environmental considerations and financial solutions will be integrated

### 5.3.4 Policy recommendations

- \* The results achieved by the project will be evaluated and assessed the success of the actions
- \* Recommendations will be developed on how to implement at local, regional and national levels

## 5.4 Open lessons

### Objective

To change the behaviour of the actors on energy efficiency in school buildings.

### Description

Open lessons will involve students, teachers and technical staff to transfer behavioural knowledge on energy efficiency in the school building.

- **It begins in October 2018 and ends in September 2019**

Below are elements of the activities. Particular aspects for each activity will be given at the start of each activity.

### 5.4.1 Open lessons in the schools

- \* Students, teachers and technical staff involved
- \* the main thing is to Transfer knowledge on simple every day actions
- \* There will be 70 open lessons
- \* 10 open lessons per country
- \* at least 5 schools for each country

## 5.5 Networking the results

### Objective

To capitalise results and activities in an effective way.

### Description

Networks and agreements will be created to transfer the results and activities beyond partner level. In this sense, recommendations and results will be brought to meetings and plans of Covenant of Mayors in order to integrate them in their Sustainable Energy Action Plans (SEAP). For this purpose synergies and lobbying will be done also with other subjects such as provinces and regions in order to develop norms and regulations to be included in SEAPs.

- **It begins in October 2018 and ends in September 2019**

Below are elements of the activities. Particular aspects for each activity will be given at the start of each activity.

#### 5.5.1 On line blog on energy efficiency issues in school buildings

- \* It will gather several actors including local communities and families on energy and environmental issues in school buildings

#### 5.5.2 Memorandum of understanding with municipalities

- \* The objective is to include considerations in local SEAP
- \* We will provide a total of 33
- \* At least 3 memorandum per partner
- \* It will include a commitment of at least three years after the end of the project

#### 5.5.3 Agreement and cooperation plan with Covenant of Mayors for integration of SEAP

- \* Focused on dissemination of the Project tool for application in SEAP
- \* All partner will stipulate an agreement with Covenant of Mayors
- \* The objective is to include actions in SEAP's

## TARGET GROUP INVOLVEMENT IN ACTIVITIES

- **Capitalizing TEESCHOOLS methodology**  
1000 professionals and experts involved by e-learning platform
- **Integration of results in the action plans**  
7 local and regional authorities involved in regional action plans and policy recommendation  
Agencies, experts, technicians and professionals involved in the green paper
- **Open lessons**  
2000 teachers, students and schools staff involved in open lessons
- **Networking the results**  
300 estimated municipalities involved through Covenant of Mayors  
33 local authorities involved through the partnership in Memorandums

## MAIN OUTPUTS

<u>Main project output</u>		<u>Description</u>	<u>Quantity</u>	<u>Ending month</u>	<u>Output indicator</u>
Output 5.1	E-learning modules	They will be developed according to Mooc (Massive Online Open Course) and will allow everyone to access to quality education. Modules can be followed to the rhythm the student prefers. A dedicated platform shall be designed. Who will complete all modules can request an attendance certificate. At local level will be verified the possibility to obtain credits for vocational training	1 Number	04-2019	Number of target groups participating in capacity raising activities on energy efficiency for public buildings
Output 5.2	Action plan on Energy Efficiency in School buildings	7 action plans will be drafted, 1 for each country, to set objectives and type of intervention for each involved region/country in public school buildings. It will address energy optimization behaviours, renovation plans, environmental considerations and financial solutions with the aim to put into practice the results of the project.	7 Plans	07-2019	Number of strategies supporting plans on energy consumption management for public buildings
Output 5.3	Policy recommendations	Policy recommendations will be designed to put into national, regional and local strategies and policies the results of the project	1 Number	10-2019	Number of strategies supporting plans on energy consumption management for public buildings
Output 5.4	Green paper on energy efficiency in the school buildings	A green paper will be developed where different stakeholders and experts can share different approaches and methods with regards to energy efficiency in the school buildings	1 Number	07-2019	Number of strategies supporting plans on energy consumption management for public buildings
Output 5.5	Open lessons in the schools	Open lessons will be conducted to involve pupils and students as well as teachers and technical staff to transfer knowledge on simple every day actions to put in practice.	70 Number	10-2019	Number of target groups participating in capacity raising activities on energy efficiency for public buildings
Output 5.6	Memorandum of Understanding with municipalities	The Memorandum of Understanding with municipalities has the objective to include considerations and project results in local SEAP.	33 Number	10-2019	Number of regions and sub-regions engaged (through charters, protocols, MoU) in developing energy efficiency plans/strategies

<u>Main project output</u>		<u>Description</u>	<u>Quantity</u>	<u>Ending month</u>	<u>Output indicator</u>
Output 5.7	Agreement and cooperation plan with Covenant of Mayors for integration of SEAP	As ENEA is the National Coordinator Of the Covenant of Mayors a cooperation plan will be developed focused on dissemination of the project results for application in SEAP. All partners will stipulate an agreement with Covenant of Mayors and will commit the organization to implement policy recommendations in local Sustainable Energy Action Plans.	1 Number	12-2019	Number of regions and sub-regions engaged (through charters, protocols, MoU) in developing energy efficiency plans/strategies

## WP5 SCHEDULE

	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
	nov-18	dic-18	ene-19	feb-19	mar-19	abr-19	may-19	jun-19	jul-19	ago-19	sep-19	oct-19	nov-19	dic-19	ene-20
<b>WP 5 CAPITALISING</b>															
<b>5.1. WP coordination and monitoring of the impacts</b>															
5.1.1 WP implementation strategy 1															
5.1.2 WP performance monitoring 1															
<b>5.2 Capitalizing TEESCHOOLS methodology</b>															
5.2.1 Report on e-learning modules 1															
5.2.2 Report on e-learning design format 1															
5.2.3 E-learning courses 1															
<b>5.3. Integration of results in the action plans</b>															
5.3.1 Green paper on energy efficiency in the school buildings 1															
5.3.2 Forum with Mayors and Deans 1															
5.3.3 Renovation plan for tested buildings 7x5															
5.3.4 Policy recommendations 1															
<b>5.4. Open lessons for behavioural change to teachers and students</b>															
5.4.1 Open lessons in the schools 70															
<b>5.5. Networking the results</b>															
5.5.1 On line blog on energy efficiency issues in school buildings 2															
5.5.2 Memorandum of understanding with municipalities 11															
5.5.3 Agreement and cooperation plan with Covenant of Mayors for integration of SEAP 11															
	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
	nov-18	dic-18	ene-19	feb-19	mar-19	abr-19	may-19	jun-19	jul-19	ago-19	sep-19	oct-19	nov-19	dic-19	ene-20

## 6. CAPITALIZATION ACTIVITIES LINKED TO COMMUNICATION ACTIONS

Keep in mind capitalization activities are lined to communication activities

	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
	nov-18	dic-18	ene-19	feb-19	mar-19	abr-19	may-19	jun-19	jul-19	ago-19	sep-19	oct-19	nov-19	dic-19	ene-20
<b>WP2 – PROJECT COMMUNICATION</b>															
<b>2.1. Coordination of communication actions</b>															
2.1.1 Communication coordination meetings 35															
2.1.2 Project Communication strategy 1															
2.1.3 Communication plan 1															
2.1.4 Definition of the opinion leaders and list of ext stakeholders 1															
2.1.5 Contribution to the MED web platform 3															
<b>2.2 Media communication and dissemination</b>															
2.2.1 Press releases and press conferences 36															
2.2.2 Video 1															
2.2.3 Social media development 1															
2.2.4 Final publication 1															
<b>2.3 Non media communication and web site</b>															
2.3.1 On line blog on energy efficiency issues in school buildings 2															
2.3.2 Web site with a blog 1															
2.3.3 Technical publication 1															
2.3.4 Collaborative network 1															
2.3.5 Project dissemination toolkit 7															
<b>2.4 Communication events</b>															
2.4.1 Launching and final conference 1															
2.4.2 Regional conferences 14															
2.4.3 Participation to external events 8															
2.4.4 Training seminars 3															
<b>2.5 Coordination with Horizontal projects communication and capitalisation activities</b>															
2.5.1 Targeted material for cross fertilisation and dissemination 1															
2.5.2 Networking meetings and exchange schemes 3															
	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
	nov-18	dic-18	ene-19	feb-19	mar-19	abr-19	may-19	jun-19	jul-19	ago-19	sep-19	oct-19	nov-19	dic-19	ene-20



## 7. RISK MANAGEMENT AND CONTINGENCY PLAN

N	Risk description	WP	Impact	Likelihood	Mitigation action	Contingency plan
1	<b>Delay in getting material</b>	5.2.1, 5.3.1, 5.3.3, 5.3.4, 5.4.1, 5.5.1	High	Low	The contents of some capitalization activities are produced by the technical partners.	If there is a delay in the delivery of content, the themes can be modified to allow a better reactivity of some partners.
2	<b>Lack of participants in events</b>	5.2.3, 5.3.2 5.4.1, 5.5.2	Medium	Low	Problem of registration of participants in capitalization activities, not enough registered, little mobilization	Set up communication actions in order to widely disseminate this action
3	<b>Not enough answers to the need analysis questionnaire</b>	5.2.3, 5.4.1	Medium	Low	Questionnaires are sent by all partners and third parties	Follow-ups must be made to have a minimum of responses per country in order to linked to the project deliverables.

## 8. SUMMARY

**Main objective** of WP5: Extend and widen the results and outputs obtained in previous WP to include in wider energy policies

**Partners involvement:** important

**Target group:** stakeholders beyond partner level (mainly)

**Activities:** - **5.2 Capitalizing TEESCHOOLS methodology**

5.2.1 E-learning modules: 10 modules

5.2.2 Report on e-learning design format (common format)

5.2.3 E-learning courses. Around 1000 actors

- **5.3 Integration of results in the action plans**

5.3.1 Green paper on energy efficiency in the schools buildings

5.3.2 Forum with Mayors and Deans

5.3.3 Renovation plan for tested buildings : 7 plans

5.3.4 Policy recommendations

- **5.4 Open lessons**

5.4.1 Open lessons in the schools (70 lessons). Students, teachers and technical staff

- **5.5 Networking the results**

5.5.1 On line blog on energy efficiency issues in schools buildings

5.5.2 Memorandum of understanding with municipalities: total 33

5.5.3 Agreement and cooperation plan with Covenant of Mayors