

MARIE TRAINING PROGRAM FOR IMPROVEMENT IN ENERGY EFFICIENCY (EE) OF EXISTING BUILDINGS

F1 | BEST PRACTICES COLLECTION

Best Practice Name:	Comprehensive energy efficiency rehabilitation – EB Consulting
Code:	FR_RE_CO_17

Best Practice Description:

Type:	<input checked="" type="checkbox"/> Action for improvement in the EE	<input type="checkbox"/> Training experience (*)
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Description:	Comprehensive rehabilitation of several apartments in the center of an old village (buildings more than 500 years old) <ul style="list-style-type: none"> • Roof insulation <ul style="list-style-type: none"> ○ Loft – under roof slopes (200 mm mineral wool panels in two crossed layers) ○ Chambers filled with loose cellulose wadding (350 mm) • Wall insulation from the inside <ul style="list-style-type: none"> ○ Linings on partition walls ○ Linings + insulating material on external walls • Improvement of an external wall with Monomur bricks + lime/hemp coating • Improvement of a low floor with underside insulation with chambers filled up with loose cork • Air/air heat pump + electric heaters (depending on the room) • Double-glazing aluminum sliding joineries with double contact breaker for thermal bridge. • Single flow mechanical ventilation • Low energy consumption lightings (including LED) 	
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Location:	Mallemort	Country:	France
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Contact (team):	Emmanuel BRIAND, EB Consulting 5 impasse des fleurs, 13710 Fuveau +33 6 73 56 78 75		
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Type of building:	<input type="checkbox"/> Tertiary	<input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Mixed
Property:	<input type="checkbox"/> Public	<input checked="" type="checkbox"/> Private	<input type="checkbox"/> Mixed
Management:	<input type="checkbox"/> Public	<input checked="" type="checkbox"/> Private	<input type="checkbox"/> Mixed
Fields of action:	<input checked="" type="checkbox"/> Construction	<input type="checkbox"/> Maintenance	<input type="checkbox"/> Use
	<input checked="" type="checkbox"/> Energy generation and distribution		<input type="checkbox"/> Other
	<input checked="" type="checkbox"/> Replacement or implementation of renewable energies		Heat pump air/air

Please, evaluate if the following processes take place in the Best Practice that you are describing in this form:

The data collection has been complete and rigorous	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Communication and awareness processes have been developed to disseminate this practice	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Training actions have been provided	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Product and services have been improved	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Jobs have been created	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sustainable financial models have been applied	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Agreements or collaboration models have been defined between parties	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Positive impact tested in the following fields (add quantitative data if you have):

ENERGY EFFICIENCY IMPROVEMENT (EE)	Improvement of energy efficiency by more than 20%.
FINANCIAL COVERAGE	Private financings. Attempt to obtain subsidies from the <i>Agence Nationale de l'Habitat</i> (National Housing Agency) unsuccessful after one year of discussions.
EMPLOYABILITY POTENTIAL	No job creation linked to this operation. However, it highlighted a lack of training of masons and sub-trade companies for energy efficiency renovation, particularly for thermal bridges treatment. Hence a potential of job creation for the professionals trained to energy efficiency of buildings.
OTHER	On-site training to lime/hemp coatings was set-up
DIFFICULTIES	<ul style="list-style-type: none"> • Difficulties to access narrow streets. Poor choice of ecological materials; products were expensive at that time (2008). Biased advice from the professionals. • Insulation was drilled through by plumber and electrician, and not filled up again. • Time dedication in order to do well • Difficulties to recoup refurbishment costs on rent. • Choose the professionals for their skill adequacy (example: not ask a mason to be in charge of the joineries)

Agents involved in this experience:

<input type="checkbox"/>	Legislation agencies
<input type="checkbox"/>	Public promoters
<input type="checkbox"/>	Private promoters
<input type="checkbox"/>	Technical public institutions
<input type="checkbox"/>	Technicians of the private sphere (professional associations ...)
<input type="checkbox"/>	Builders
<input type="checkbox"/>	Industrial
<input type="checkbox"/>	Facility Managers (property managers, cleaning companies ...)
<input type="checkbox"/>	Energy supply companies
<input type="checkbox"/>	Users/owners (homeowners association, schools ...)
<input type="checkbox"/>	Other:
GAPS	Lack of training of the masons and sub-trade companies regarding energy renovation, particularly for thermal bridges treatment

(*) RR_BB_FF_NN

RR Country: CY (Cyprus), FR (France), GR (Greece), IT (Italy), MT (Malta), PO (Portugal), SL (Slovenia), SP (Spain)

BB Type of building: RE (residential), TE (tertiary), MX (mixed)

FF Field of action: **CO** (construction), **MA** (maintenance), **US** (use), **EN** (energy generation and distribution), **OT** (other)
(in case of affecting more than one field of action choose the most relevant)

NN Number of the practice: **01, 02, 03...**

(*)IN CASE OF A TRAINING EXPERIENCE:

Course name:	
Duration:	
Web:	
Director/a:	
Who is it aimed:	
Objectives:	
Program:	
Methodology:	

I agree to bring this experience to the database of the MARIE project, which will create a comprehensive training program for improving the energy efficiency of buildings in the area of the Mediterranean.