

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

**F1 | BEST PRACTICES COLLECTION**

Best Practice Name:	Comprehensive energy efficiency renovation – single dwelling house
Code:	FR-RE-CO-25

Best Practice Description:

Type:	<input checked="" type="checkbox"/> Action for improvement in the EE	<input type="checkbox"/> Training experience (*)
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Description:	<p>Comprehensive renovation of a house of the eighteenth century:</p> <ul style="list-style-type: none"> <li>• DPE (energy efficiency performance diagnostic) required for the real estate transaction with E label (231 – 330 kWh-ep /m<sup>2</sup> /year)</li> <li>• Auto renovation (cost reasons + personal project) except for joinery.</li> <li>• Roof insulation with 160 mm high density rock wool salvaged from a site where it was to be thrown out + 100 mm of existing glass wool</li> <li>• Installation of a film for airtightness</li> <li>• Installation of double glazed low emissivity wood joinery 4/16/4, Uw = 1.5 W / m<sup>2</sup>. K</li> <li>• Installation of a wood stove with pipes on 2 levels without plug to allow the heat to circulate in the rooms</li> <li>• Insulation of “domestic hot water” pipes</li> <li>• Heat insulation of the boiler since it is in a unheated and strongly ventilated room</li> <li>• Replacement of lighting with performing equipment (low consumption lamps and LEDs)</li> </ul>
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Location:	MIRAMAS	Country:	FRANCE
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Type of building:	<input type="checkbox"/> Tertiary	<input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Mixed
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Property:	<input type="checkbox"/> Public	<input checked="" type="checkbox"/> Private	<input type="checkbox"/> Mixed
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Management:	<input type="checkbox"/> Public	<input checked="" type="checkbox"/> Private	<input type="checkbox"/> Mixed
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Fields of action:	<input checked="" type="checkbox"/> Construction	<input type="checkbox"/> Maintenance	<input type="checkbox"/> Use
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<input checked="" type="checkbox"/> Energy generation and distribution	<input type="checkbox"/> Other
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<input checked="" type="checkbox"/> Replacement or implementation of renewable energies	Wood stove
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Please, evaluate if the following processes take place in the Best Practice that you are describing in this form:

	Yes	No
The <b>data collection</b> has been complete and rigorous	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Communication and awareness</b> processes have been developed to disseminate this practice	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Training actions</b> have been provided	<input type="checkbox"/>	<input type="checkbox"/>
<b>Product and services</b> have been improved	<input type="checkbox"/>	<input type="checkbox"/>
<b>Jobs</b> have been created	<input type="checkbox"/>	<input type="checkbox"/>

**Sustainable financial models** have been applied

<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Agreements or **collaboration models** have been defined between parties

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

<b>ENERGY EFFICIENCY IMPROVEMENT</b> (EE)	The energy gain allowed dividing consumption by 2. Installing the wood stove with visible pipes on 2 levels without plugs, thus allowing heat to circulate in the rooms, enabled a yield of 90% instead of 70% advertised by the manufacturer (Installation done without DTU -unified technical document- but still effective).
<b>FINANCIAL COVERAGE</b>	In the case of self-renovation, only private funding is possible. The installation of joinery was though done by a company, allowing the owner to benefit from tax credit (common law aid).
<b>EMPLOYABILITY POTENTIAL</b>	
<b>OTHER</b>	
<b>DIFFICULTIES</b>	Self-renovation involves spending a lot of time working outside working hours, meaning evenings, weekends and holidays. For joinery, the owner shopped at Leroy Merlin (hypermarket hardware store) because the price / quality ratio was the lowest in the market. The installation was subcontracted by Leroy Merlin and lasted one year: incompetent company that had though been underpaid.

Agents involved in this experience:

<input type="checkbox"/>	Legislation agencies
<input type="checkbox"/>	Public promoters
<input checked="" 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:
<b>GAPS</b>	Need to address the issue of underpaid subcontracting by DIY stores. The all-inclusive prices offered are the lowest but not ethically responsible.

(\*) 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:	<i>Training hours/ECTS</i>
Web:	
Director/a:	
Who is it aimed:	<i>Profile of trainees</i>
Objectives:	<i>What enables this training?</i>
Program:	
Methodology:	<i>Format (face-to-face, on-line), structure of sessions, visits, case studies, evaluation systems, dynamic sessions, other aspects ...</i>

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.