

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

F1 | BEST PRACTICES COLLECTION

Best Practice Name:	ECO ARTISAN: the craftsmen of comprehensive energy efficiency renovation.
Code:	FR-RE-CO-08

Best Practice Description:

Type:	<input checked="" type="checkbox"/> Action for improvement in the EE	<input checked="" type="checkbox"/> Training experience (*)	
Description:	<p>Represented by the CAPEB (confederation of craftsmen and small building enterprises), ECO Artisan® is a brand delivered by QUALIBAT, an independent body and third party that makes sure, particularly on building sites, that the engagements taken by the enterprise are being respected.</p> <p>These engagements are based on respecting a system of reference related to improving building energy efficiency performances. <i>The requirements of the system of reference are articulated around 3 main engagements:</i></p> <ul style="list-style-type: none"> Propose to the clients an evaluation of the energy efficiency performance of their housing, Offer comprehensive advice on energy efficiency renovation Realize the renovation work within one's field of work and check on its quality <p>In order to obtain this label, the exam prepared with the FEEBAT training (training for energy savings in buildings) (module 1 and 2) needs to be validated.</p> <p>Example of a global energy efficiency renovation on a 90 m² single family house from 1975 with a log burner insert fire with 71% return:</p> <ul style="list-style-type: none"> Loft insulation: 20 cm of rock wool on top of the 20 cm of existing glass wool. Installation of double-glazing joinery 4/16/4 <p>Replacement of fuel boiler with a high temperature heat pump.</p>		
Location:	BOUC BEL AIR (13)	Country: FRANCE	
Contact (team):	LE MAIGAT Hervé : herve@aim-solutionsenergies.com Aim Solutions Energies 325 Chemin des Platrières 13109 Simiane Collongue 04 42 39 94 27		
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		<i>Which ones?</i>

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

	Yes	No
The data collection has been complete and rigorous	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Communication and awareness processes have been developed to disseminate this practice	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Training actions have been provided	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Product and services have been improved	<input type="checkbox"/>	<input type="checkbox"/>
Jobs have been created	<input type="checkbox"/>	<input type="checkbox"/>
Sustainable financial models have been applied	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Agreements or collaboration models have been defined between parties	<input type="checkbox"/>	<input type="checkbox"/>

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

ENERGY EFFICIENCY IMPROVEMENT (EE)	The energy efficiency gain is 30%, allowing a return on investment of about 10 years with a increase of energy prices of 5%.
FINANCIAL COVERAGE	<u>FEEBAT TRAINING</u> : part of the cost is covered by the CAPEB (craftsmen network) and the agency responsible for collecting and administrating the training funds of the enterprise (here the FAFCEA). <u>Building work</u> : private funding, common law aids such as tax credit and EDF eco subsidy (power company) via “solution bien-être” (1000 € for insulation and heat pump installation).
EMPLOYABILITY POTENTIAL	No job created strictly speaking but the energy efficiency renovation allowed for an insulation craftsman and a joinery enterprise to intervene along with AIM, the eco-craftsman specialized in renewable energies.
OTHER	The enterprise was first called to change the heating system and then proposed to study a comprehensive renovation thanks to the simulation software Baticube (energy saving et return on investment) that each ECO ARTISAN (eco craftsman) needs to be able to use.
DIFFICULTIES	<u>ECO Artisan®</u> : elitist label that is not well known by private individuals unlike EDF “Bleu Ciel” partners (power company), Leroy Merlin sales advisers (large hardware store)... Does not bring a market « yet »: waiting for cross-compliance (eco-conditionality) scheduled for 2014 for all common law aids (tax credit, Eco zero-interest loan). <u>FEEBAT</u> : too theoretical and not enough case study or even work sites visits.

Agents involved in this experience:

<input checked="" type="checkbox"/>	Legislation agencies
<input type="checkbox"/>	Public promoters
<input type="checkbox"/>	Private promoters
<input checked="" 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 ...)

x	Energy supply companies
	Users/owners (homeowners association, schools ...)
	Other:
GAPS	Move towards more case studies and building sites visits during craftsmen trainings so that they can apply the studied principles.

(*) **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:	FEE Bat : training for energy saving of building enterprises and craftsmen (module 1 and 2)
Duration:	Module 1 : 2 days x 7h ; Module 2 : 2 days x 7h
Web:	http://batiment.feebat.org/index.html
Director/a:	In the case of Eco artisans, the director is the CAPEB that goes through an entitled training organization (list on the website).
Who is it aimed:	<ul style="list-style-type: none"> • Company managers • Carftsmen • Construction managers / foremen • Account or project managers • tradesmen
Objectives:	<ul style="list-style-type: none"> • taking into account the energy efficiency and environmental dimension in renovation work on a systematic basis • Insuring the quality of the work while mastering interfaces and anticipating implementation faults • Increasing the prescriber role of building enterprises and craftsmen in terms of global renovation and renovation packages.
Program:	<p>Knowing the key technologies and the solutions for increasing energy efficiency performances:</p> <ul style="list-style-type: none"> - opaque walls, glazed walls - Ventilation systems - Heating systems - Domestic hot water production - Cooling systems - Technical equipment programming - Lighting... <p>Mastering a comprehensive energy efficiency approach of buildings :</p> <ul style="list-style-type: none"> - Assessing the orders of magnitude of CO₂ consumption and emission - Offer renovation work for improving energy efficiency centered on performance - Mastering matching more than one solution and solution packages <p>Knowing how to sell energy saving and associated services:</p> <ul style="list-style-type: none"> - Adding more than one solution et evaluating their performances, CO₂ consumption and emission - Costing out the energy efficiency improvements and estimating the cost of the proposed solutions - Possessing economic and environmental arguments to convince the client <p>Understanding the thermal functioning of a building</p> <ul style="list-style-type: none"> - Thermal wastage by consumer posts - Thermal bridges - Air-tightness and ventilation - Free energy gains (internal and solar) - Thermal inertia - Moisture issues - Energy efficiency systems (energy production, distribution, emission, regulation...) <p>Mastering software rating the efficiency of energy saving renovations</p>

Methodology:

- Mastering one or more software allowing to cost out the improvements in energy efficiency as well as the gains of the solutions proposed to clients (economic, consumption, CO2...)
- Realizing a few case studies of renovation

Sessions organized with groups of 10/15 people. Theory basis and use of the software.

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.