

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

**F1 | BEST PRACTICES COLLECTION**

Best Practice Name:	UP-RES training course: Urban Planners with Renewable Energy Skills
Code:	CA_TR_BB_EN_01

Best Practice Description:

Type:	<input type="checkbox"/> Action for improvement in the EE	<input checked="" type="checkbox"/> Training experience (*)
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Description:	Professional training of 32 practitioners, mainly architects and urban planners, partially from public administrations, hosted by Escola Sert, the Catalan Chamber of Architect's CPD institution, 2011-2012. The training course was structured in ten modules with an extension between 12 and 18 hours each, summing up 150 hours face-to-face continuous professional development with an additional minimum of 50 hours home and project work. The content started with a general introduction to Energy and Urbanism, then developed strategies for energy reduction in the main energy consuming sectors: buildings and transport, and finally entered into Urban Energy Planning strategies with special focus on introduction of Renewable Energy Sources, DHC, CHP and taking into account not only technical but especially legislative and economical aspects and innovative management and business models.
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Location:	Barcelona	Country:	Spain
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Contact (team):	Christoph Peters, Head of Department R+D+i, Sabaté associats, Balmes 439, 1-1, E-08022 Barcelona, Tel. +.34.665.413.432, cpeters@saas.cat
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Type of building:	<input type="checkbox"/> Tertiary	<input type="checkbox"/> Residential	<input type="checkbox"/> Mixed
Property:	<input type="checkbox"/> Public	<input type="checkbox"/> Private	<input type="checkbox"/> Mixed
Management:	<input type="checkbox"/> Public	<input type="checkbox"/> Private	<input type="checkbox"/> Mixed

Fields of action:	<input checked="" type="checkbox"/> Construction	<input checked="" type="checkbox"/> Maintenance	<input checked="" type="checkbox"/> Use
	<input checked="" type="checkbox"/> Energy generation and distribution		<input checked="" type="checkbox"/> Other
	<input checked="" type="checkbox"/> Replacement or implementation of renewable energies		waste for energy, biomass, geothermal, solar

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 type="checkbox"/>	<input type="checkbox"/>
<b>Communication and awareness</b> processes have been developed to disseminate this practice	<input type="checkbox"/>	<input type="checkbox"/>
<b>Training actions</b> have been provided	<input checked="" 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"/>
<b>Sustainable financial models</b> have been applied	<input type="checkbox"/>	<input type="checkbox"/>
Agreements or <b>collaboration models</b> have been defined between parties	<input type="checkbox"/>	<input type="checkbox"/>

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

<b>ENERGY EFFICIENCY IMPROVEMENT</b> (EE)	<p>Tackling urban planning and taking into account that the pilot training was delivered in 2011-2012, no measurable results have yet been achieved. The last module of the training was delivered as workshop, where the participants themselves were asked to come up with real cases from their working environment. Compulsorily, the groups were to be established with at least one participant from a public administration, and the aim was to improve an existing urban plan or to implement district energy networks, neighborhood networks, or to focus on whatever seems to save most energy in the municipality. The results were very satisfactory and interesting and ambitious works were presented. Hopefully, these case studies were presented to the respective municipalities, but no tracking has been developed. In the case of an action in building which has been the impact on improving energy efficiency? It has reduced the consumption? At what size? Has the energy supply been replaced by renewable energy?</p> <p>In the case of training, it has been proved that the training received really improves the energy efficiency in existing buildings? In what size it has been proved? Are the case studies developed in class real examples, or proposals?</p>
<b>FINANCIAL COVERAGE</b>	<p>A clear focus has been put on financial aspects, especially in the modules on District Heating and Cooling networks. One session was only dedicated to basic financial calculations, and in the homework the students made examples of economic feasibility studies, for buildings as well as for DHC networks.</p>
<b>EMPLOYABILITY POTENTIAL</b>	<p>No professional tracking of the participants has been performed, therefore no information on potential impact.</p>
<b>OTHER</b>	<p>High importance in awareness building and information at public and private urban planners.</p>
<b>DIFFICULTIES</b>	<p>None</p>

Agents involved in this experience:

x	Legislation agencies
x	Public promoters
x	Private promoters
x	Technical public institutions
x	Technicians of the private sphere (professional associations ...)
x	Builders
	Industrial
	Facility Managers (property managers, cleaning companies ...)
	Energy supply companies
	Users/owners (homeowners association, schools ...)
	Other:

<b>GAPS</b>	None
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(\*) **RR\_TT\_BB\_FF\_NN**

**RR** Region: **CA** (Catalunya), **EV** (Evora), **LA** (Larnaca), **MT** (Malta), **PA** (PACA), **SL** (Slovenia), **UM** (Umbria), **WM** (Western Macedonia)

**TT** Type of BP: **BP** (project and work), **TR** (training)

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

**FF** Field of action: **CO** (construction), **MA** (maintenance), **US** (use), **EN** (energy generation and distribution), **OT** (other)

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

**(\*)IN CASE OF A TRAINING EXPERIENCE:**

Course name:	UP-RES training course: Urban Planners with Renewable Energy Skills
Duration:	8 months
Web:	<a href="http://www.coac.net/escolasert/">www.coac.net/escolasert/</a> <a href="http://aaltopro2.aalto.fi/projects/up-res/">http://aaltopro2.aalto.fi/projects/up-res/</a>
Director/a:	Joan Sabaté, Christoph Peters, architects , Sabaté associats
Who is it aimed:	Architects and urban planners from public and private entities
Objectives:	Training focused on introducing energy efficiency and integration of renewable energies and district heating and cooling networks into urban planning. Demand reduction, efficient distribution, sustainable supply.
Program:	<p>M1 - An integrated vision. Sustainability in regional and urban planning  M2 - Energy. The existing energy model and market outlook  M3 - Buildings. Energy demand reduction strategies in new buildings and refurbishment  M4 - Mobility. Energy consumption reduction strategies in urban and interurban mobility  M5 - Urban planning. Energy demand reduction strategies in the urban metabolism  M6 - Energy resources. Renewable energy technologies in the urban scale  M7 - Energy distribution: District heating and cooling  M8 - New management concepts in the energy market  M9 - Energy management. New models in contracting and management  M10 - Workshop. the right scale for every energy concept</p> <p>The whole program and around 300 sample slides are available in ten European languages and free for download at the webpage:  <a href="http://aaltopro2.aalto.fi/projects/up-res/">http://aaltopro2.aalto.fi/projects/up-res/</a></p>
Methodology:	Face to face, sessions of three hours twice a week with possibility of on-line follow-up . Site visits, case studies, practical exercises, interactive sessions provided by a multidisciplinary team of professionals.

*X 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.*