

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

F1 | BEST PRACTICES COLLECTION

Best Practice Name:	<i>La Fabrica del Sol</i> Building. Centre for Sustainability Awareness and offices.
Code:	SP_TE_CO_03

Best Practice Description:

Type:	<input checked="" type="checkbox"/> Action for improvement in the EE	<input checked="" type="checkbox"/> Training experience (*)	
Description:	Refurbishment following sustainable criteria of the existing offices building <i>La Fabrica del gas</i> , built by Josep Domènech i Estapà on 1907. It has been isolated on the interior (as it can't be isolated on the exterior) roofs and ceilings with a 6-7cm of black cork and water roofing system. In addition, glazing with internal air chamber has been introduced.		
Location:	c/Ginebra with c/Salvat Papasseit, Barcelona	Country: Spain	
Contact (team):	Toni Solanas tonisol@coac.net La Fàbrica del Sol: lafabricadelsol@bcn.cat		
Type of building:	<input checked="" type="checkbox"/> Tertiary	<input type="checkbox"/> Residential	<input type="checkbox"/> Mixed
Property:	<input checked="" type="checkbox"/> Public	<input type="checkbox"/> Private	<input type="checkbox"/> Mixed
Management:	<input type="checkbox"/> Public	<input type="checkbox"/> Private	<input checked="" 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 checked="" type="checkbox"/> Other
	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>
Training actions have been provided	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Product and services have been improved	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Jobs have been created	<input checked="" type="checkbox"/>	<input 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)	Electric energy consumption: 62'7 Kwh/year m ² Production: 4'7 Kwh/year m ² Balance: - 58 Kwh/year m ² Thermal energy consumption: 41 Kwh/year m ²
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	Production: 68 Kwh/year m ² Balance: + 27 Kwh/year m ²
FINANCIAL COVERAGE	European Union grant
EMPLOYABILITY POTENTIAL	The first stage of the construction was executed by 60 students of the Ajuntament de Barcelona workshop-school, with the subvention of the Generalitat de Catalunya. An exact number of jobs can't be detailed, but the building needs maintenance and the installation gave employment to the construction company during the second stage of the execution.
OTHER	Study of green electricity purchase during the building's use. High awareness from the users. The building consists of an experimental centre for sustainability awareness, with 30.000 visitors per year. The water from the roofing in addition to the depurated water provides more water than needed. However there's a washing water consumption of 164 litres per month. Materials for provided energy: 789MJ/m ² Materials: 206 kg/m ² CO ² emissions: 86 kg/m ²
DIFFICULTIES	The lack of finance caused to stop the construction works during nearly five years.

Agents involved in this experience:

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

GAPS	Building open to the public: ground floor and roof hold permanent and temporary exhibitions about sustainability applied to common life and to buildings. It's a centre that depends on the <i>Servei d'Educació Ambiental</i> , of the <i>Àrea de Medi Ambient de l'Ajuntament de Barcelona</i> . It's webpage is http://mccrit.com/crbs/ On the first floor, the centre holds different NGO organizations as SEBA, and other organizations related to the environment and social action programs. There's also a small local donated to the Neighbor Association of the area.
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(*) 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...