

General information	
Category	AlpHouse – Approach Awareness
ID	QM 6.2
Title	Training for technical office – Energy renovation of building envelope
Duration	[1 day] - 8 hours - seminar
N. participants	50 - 100
Location	The seminar takes place in a public building located in traditional alpine settlement or in the pilot region
Target group	Decision Makers
Characteristics of the Qualification Module	
Aims	The aim of the workshop is to sensitize the decision makers and their technicians in the AlpHouse approach and philosophy and to increase the knowledge needed to evaluate the possibility of energy renovation of existing buildings, with particular reference to the rate of return of investments and incentives available at regional and at national level.
Methodic Approach	The module is designed to maintain the learners' perspective: active learning and continuous reference to their own knowledge are used to better involve them in the module activities. In the seminar, the AlpHouse philosophy was used to give a different approach in the energy analysis of the existing building stock. More specifically, through explanations regarding the bioclimatic characteristics of historic buildings, the problems that arise in these cases and the potential for energy optimisation was presented through concrete examples (pilot buildings). So it was possible to transmit, in a simple and effective way, the potential for both private and public buildings present in the different Municipal Councils.
Contents	<ul style="list-style-type: none"> ▪ The AlpHouse Philosophy (traditional alpine architecture and energy efficiency); ▪ Role of the co-operation among the different actors involved in the renovation process. ▪ Transfer of the point of relevance in renewing vernacular buildings and improving their energy efficiency; ▪ The Technological solutions for the renovation of existing buildings (choice of insulation, average costs of materials and technologies, etc) with a look at the different technological solutions for the optimisation of the plants. ▪ Presentation of two "pilot buildings" of the analysis provided in the project, chosen as case studies to highlight the characteristics of vernacular buildings, pointing out the peculiarities of the Aosta Valley building stock over different construction periods. For every vernacular building in the original condition some construction details and thermographic pictures have been analysed, showing the main problems related to the envelope heat losses. Every construction detail of the original condition have been compared to the construction detail of the energy renovation, with some references to the materials and to the procedures for the installation.

Learning outcomes	<ul style="list-style-type: none"> ▪ Define the main principles about sustainable renovation of traditional settlements and buildings that are linked to their specific work field; ▪ Evaluate the impact of the renovation choices for public and private buildings by considering their architectural identity, their historical evolution and the energy production/consumption patterns before planning a building renovation; ▪ Find the correct balance between conservation, re-use and energy efficiency objectives also related to the rate of return of investments; ▪ Learn about existing constrains and advantages offered by the current legal framework and incentives schemes; ▪ Discuss critical renovation problems with the other decision makers, individuate and implement best practices. 		
Final Certification	Certificate of attendance of the QM		
Conception			
PP Leader	VDA – Autonomous Region of Aosta Valley, Department of Production Activities, Energy Direction Service for implementation of the energy plan and COA energia Finaosta		
Contact person	Arch. Chiara Bertolin – Arch. Favre Erika		
address	Via Festaz, 22 – 11100 AOSTA – ITALY		
phone	+39 0165 269285 - +39 0165 269265	fax	+39 0165 548330
e-mail	bertolin@finaosta.com favre@finaosta.com	web	www.regione.vda.it/energia
QM Experiences			
Performing institution	VDA – Autonomous Region of Aosta Valley, Department of Production Activities, Energy Direction Service for implementation of the energy plan and COA energia Finaosta		
Contact person	Arch. Chiara Bertolin – Arch. Favre Erika		
address	Via Festaz, 22 – 11100 AOSTA – ITALY		
phone	+39 0165 269285 - +39 0165 269265	fax	+39 0165 548330
e-mail	bertolin@finaosta.com favre@finaosta.com	web	www.regione.vda.it/energia
Status	done		
Location	Aosta [IT]		
Date	9th December 2010		
Trainers	Giorgio Gallo – [Architect] – ITA - ENG	e-mail	archigallo01@gmail.com
	Christian Cavorsin – [Architect] – ITA – F - ENG	e-mail	c.cavorsin@atelierprojet.it
	Chiara Bertolin – [Architect] – ITA – F – ENG	e-mail	bertolin@finaosta.com
	Erika Favre – [Architect] – ITA – F – ENG	e-mail	favre@finaosta.com
Available material	<ul style="list-style-type: none"> ▪ Fine planning (ENG) ▪ Overview (ENG) ▪ Programme (ITA) ▪ *.ppt presentations of the contents (ITA) ▪ Press release (ENG) ▪ Report (ENG) ▪ Results of the satisfaction questionnaires (ITA) 		