



LIFE 15 IPE IT 013

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# PRIVATE BUILDING ENERGY RENOVATION: RESTARTING FROM CONDOMINIUMS

*Report 2022*





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## Abstract

Il report riassume lo svolgimento dei corsi “Ristrutturazione energetica degli edifici privati: ripartire dai condomini” svolto nei diversi territori dei partner aderenti all’azione.

Nello specifico, tre dei cinque partner hanno concluso le attività previste: Provincia autonoma di Trento, Emilia-Romagna e Veneto, quest’ultimo aggiungendo un’edizione rispetto alle quattro previste inizialmente. Il numero dei partecipanti totali risulta soddisfacente, superando in media i 30 partecipanti previsti per ogni edizione.

I punti di attenzione sono principalmente rivolti alle defezioni che si registrano durante il corso, trattandosi di un corso gratuito e non sempre legato a crediti professionali o altri sistemi che possano garantire una partecipazione costante. Numerosi sono gli sforzi fatti dai diversi partner, che solo in parte sono riusciti a risolvere tale problema.

In generale l’azione, che si avvia a chiusura, sembra aver soddisfatto i risultati attesi, considerando anche che ben si è adattata alla pandemia da Covid19 e si è inserita in maniera efficace nel contesto generato dal Superbonus110%.



## Chapter 1. Comparison between activities foreseen and activities done

As specified in Deliverable D2, it was decided to abrogate the fixed number of participants for each category for guaranteeing an adequate proportion in the working groups and to cancel the number of editions for each year, maintaining the total number of courses during the project implementation. With this last changes, partners could decide how to organize the tenders and the offering in their own territories. The Province of Trento decided to host all the editions in the same place, since it is characterized by a small territory, whereas the other Regions decided to host more than one edition a year in different cities. Since Spring 2020, due to the Covid-19 emergency and the following lockdown and emergency measures, it was decided to change the modality of the lasting editions in webinar. Nevertheless, the territoriality of the courses editions remained the same as planned, so each edition is offered to the categories of a specified territory. After the problems related to the Covid-19 pandemic became affordable, partners decided to be able to work both in the presence and webinar modality, allowing flexibility to each single edition of the courses. Moreover, in the Amendment sent at the end of Phase 2, the end of the action was postponed in order to allow to some of the partners to recover the delay due to both administrative problems and Covid-19 emergency. Table 1 reports the editions done and planned for each partner.

Table 1 - Courses done/planned

	2018 (done)	2019 (done)	2020 (done)	2021 (done)	2022 (planned)
PiedmontRegion	0	0	0	0	4 (planned)
Autonomous Province of Trento	1	2	1	-	-
Emilia-Romagna Region	0	0	0	4	-
Friuli-Venezia Giulia Region	0	1	1	-	2 (planned)
Veneto Region	0	0	0	4	1 (done)

## Chapter 2. Description of courses done

### 2.1 Participants details

Table 2, Table 3, Table 4 and Table 5 report the details of the participants that attended the edition already done and reported in the previous deliverable and the new ones.

*Table 2 – Participants registered for each edition held in Autonomous Province of Trento*

	1st edition	2nd edition	3rd edition	4th edition	Total
Number of registered people	50	24	25	31	130
Number of promoted participants	45	19	22	21	107

*Table 3 – Participants registered for each edition held in Friuli-Venezia Giulia Region*

	1st edition	2nd edition
Number of registered people	25	29
Number of promoted participants	18	17

*Table 4 – Participants registered for each edition ongoing in Veneto Region*

	1st edition	2nd edition	3rd edition	4th edition	5th edition	Total
Number of registered people	15	31	51	66	40	203
Number of promoted participants	14	27	35	43	25	144

*Table 5 – Participants registered for each edition ongoing in Emilia-Romagna Region*

	1st edition	2nd edition	3rd edition	4th edition	Total
Number of registered people	127	138	116	144	525
Number of participant	72	74	42	62	250
Number of promoted participants	60	53	35	45	193

### 2.2 Adaptations to the format

All partners decided to make some minor changes to the format, welcoming the proposal of the provider of the courses.



Province of Trento added a section dedicated to the local incentives, Friuli-Venezia Giulia Region decided to shift 4 hours from management module to the technical module, Emilia-Romagna Region decided to add a section about GPP related to construction and energy and a section related to the Superbonus 110%, the fiscal framework that helps to reduce costs of energy efficiency work.

Moreover, as reported in Chapter 3, during and after Covid-19 emergency it was decided to give the lectures in a webinar mode in order to guarantee the continuity of the Action.

### 2.3 Working group presentations

Figures below report some slides of the presentations elaborated during the working groups.

Participants focused not only on the technical advantages, but also economical ones, well-being aspects, communicational strategies.



Figure 1. Selection of slides presented during the working groups in the 4th edition in Emilia-Romagna

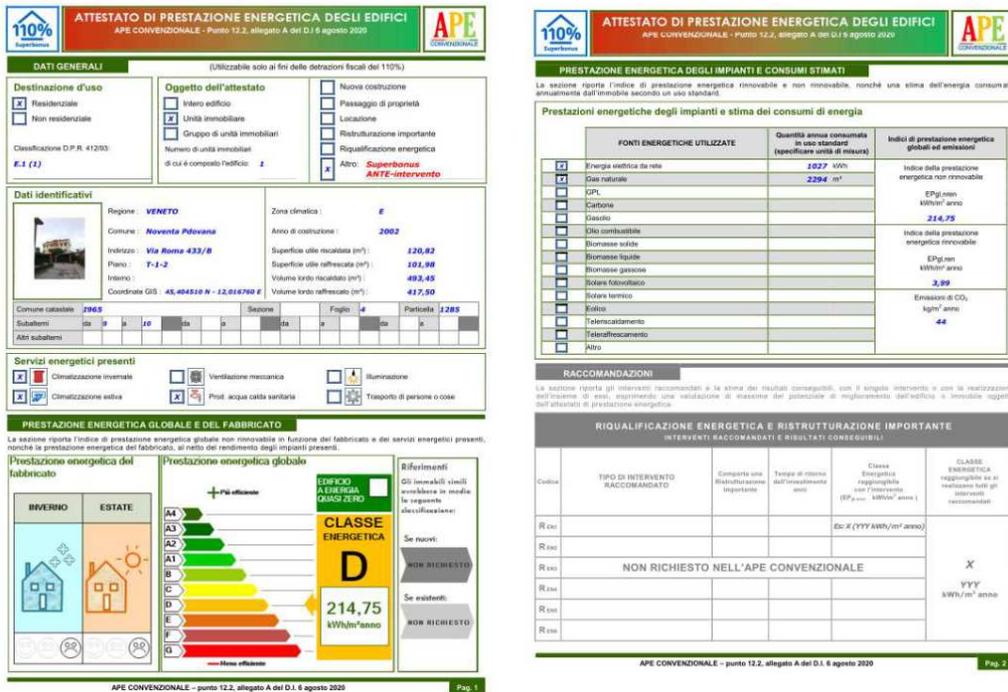


Figure 2. Working groups presentation in the 3rd edition in Veneto



## 2.4 Comments by participants

Satisfaction questionnaire were administered to the participants and to teachers in all editions, in order to gather suggestions and to understand how to improve the format.

The answers were in general positive and the participants shew satisfaction about the courses. Some minor comments are reported in the single reports done by the providers. In this paragraph only the more relevant suggestions are reported.

Professionals appreciated the approach, admitting that thanks to the course they understood the necessities of other categories, feeling confident of being able to approach in a better manner the future works. Moreover, the introduction of Superbonus110% has increased the attention and the interest of the stakeholder to the renovation of buildings and the necessity to work together with other categories.

## Chapter 3. Problems observed and solutions proposed

### 3.1 Courses dropout

The free participation to the courses presents the advantage to encourage the participation of all the categories involved, but the disadvantage of losing some of the participants during the course, since they don't need to invest money to attend the course. As can be seen in the Table 2, 3 and 4, there is a high percentage of participants that didn't finish the course (around 10%-20%). This problem could be solved by a deposit that could be given back at the end of the course, not possible at the moment. Efforts to afford it were put in place, improving the information and the communication before the beginning of each edition.

### 3.2 Coronavirus emergency and webinar mode

Covid-19 emergency and the following restrictions caused the impossibility to attend physically the courses.

The partners decided to run the different editions in a webinar modality. Although this choice has drawbacks, it was still appreciated by the participants and also the working groups were able to carry out the practical part with excellent results.

### 3.3 Condominium manager and artisans/firms participation

In some cases a lack of interest by condominium managers and/or artisans and firms was registered. This is probably due to the fact that they don't have mandatory refresher courses or, if they have to attend them, they lasts at maximum 20 hours, so they are not used to attend more demanding courses. Efforts were put in place, working with the professional associations in order to widen the advertisement of the course to the category of condominium manager and to collaborate with other local project addressed to condominium managers.



## Conclusions

The previous chapters show the details of the course "Private building energy renovation: restarting from condominiums" carried out in the different territories of the partners participating in the action.

Specifically, three of the five partners have concluded the planned activities: Autonomous Province of Trento, Emilia-Romagna Region and Veneto Region, the latter adding an edition to the four initially planned. The number of total participants is satisfactory, exceeding on average the 30 participants expected for each edition.

The points of attention are mainly aimed at defections that have been registered during the course, since the participation is free and not always linked to professional credits or other systems that can guarantee constant participation. Efforts have been put in place by the partners, which only partially succeeded in solving the problem.

In general, the action, which is about to close, seems to have satisfied the expected results, also considering that it has adapted well to the pandemic from Covid19 and has managed effectively the context generated by the Superbonus110%.





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## THE PROJECT PREPAIR

*The Po Basin represents a critical area for the quality of air, as the limit values of fine powders, nitrogen oxides and ozone set by the European Union are often exceeded. The northern Italian regions re included in this area as well as the metropolitan cities of Milan, Bologna and Turin.*

*This area is densely populated and highly industrialized. Tons of nitrogen oxides, powders and ammonia are emitted annually into the atmosphere from a wide variety of polluting sources, mainly related to traffic, domestic heating, industry, energy production and agriculture. Ammonia, mainly emitted by agricultural and zootechnical activities, contributes substantially to the formation of secondary powders, which constitute a very significant fraction of total powders in the atmosphere.*

*Because of the weather conditions and the morphological characteristics of the basin, which prevent the mixing of the atmosphere, the background concentrations of the particulate, in the winter period, are often high.*

*In order to improve the quality of the air in the Po Valley, since 2005 Regions have signed Program Agreements identifying coordinated and homogeneous actions to limit emissions deriving from the most emissive activities.*

*The PREPAIR project aims at implementing the measures foreseen by the regional plans and by the 2013 Po Basin Agreement on a wider scale, strengthening the sustainability and durability of the results: in fact, the project involves not only the regions of the Po valley and its main cities, but also Slovenia, for its territorial contiguity along the northern Adriatic basin and for its similar characteristics at an emissive and meteorological level.*

*The project actions concern the most emissive sectors: agriculture, combustion of biomass for domestic use, transport of goods and people, energy consumption and the development of common tools for monitoring the emissions and for the assessment of air quality over the whole project area.*

### **DURATION**

*From February 1st 2017 to January 31 2024.*

### **TOTAL BUDGET**

*17 million euros available to invest in 7 years: 10 million of which coming from the European Life Program.*

### **COMPLEMENTARY FUNDS**

*PREPAIR is an integrated project: over 850 million euros coming from structural funds and from regional and national resources of all partners for complementary actions related to air quality.*

### **PARTNERS**

*The project involves 17 partners and is coordinated by the Emilia-Romagna Region – General directorate for the territorial and environmental care.*



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