



European Regional Development Fr





ABOUT OUR GOALS

The aim of the BB-CLEAN project is the development of transnational policies for a sustainable use of biomass for domestic heating in the Alpine region. This aim will be reached starting from the state of the art of very different regulations linked to small scale biomass appliances in the countries of the Alpine region and the development of innovative approaches for the awareness • DEVELOPMENT OF raising of citizens and local administrators.

Technological, economical and informative tools will be used to mitigate the impact of a local widespread energy source (biomass) on air quality, human health and climate change.

- AWARENESS RAISING OF CITIZENS AND LOCAL **ADMINISTRATORS**
- REDUCTION OF THE IMPACT OF BIOMASS **BURNING IN ALPINE** VALLEYS
 - TRANSNATIONAL POLICIES FOR SUSTAINABLE USE OF **BIOMASS FOR DOMESTIC** HEATING



8 PARTNERS, **5 COUNTRIES**

- Università Cattolica del Sacro Cuore, Italy
- Agenzia Regionale per la Protezione dell'Ambiente della Valle d'Aosta, Italy
- Communauté de communes Pays du Mont-Blanc, France
- Atmo Auvergne-Rhône-Alpes, France
- Zavod Energetska agencija za Savinjsko, Šaleško in Koroško, Slovenia
- e-Zavod, Slovenia
- FH JOANNEUM Gesellschaft mbH, Austria
- ECONCEPT, Agentur fürnachhaltiges Design, Germany





PROJECT BUDGET 1.665.715 EUR

ERDF FUNDING 1.415.858 EUR

DURATION APRIL 2018 - APRIL 2021

PILOT AREAS

- SAINT MARCEL MUNICIPALITY,
 VALLE D'AOSTA REGION, ITALY
- THÖRL VILLAGE,
 STYRIA, AUSTRIA
- STORO MUNICIPALITY, TRENTINO REGION, ITALY
- VIONE MUNICIPALITY,
 LOMBARDY REGION, ITALY

CROWDSOURCING ACTIVITIES

The crowdsourcing approach is a fruitfull open innovation tool, since it engages various stakeholders, namely citizens and local administrators, to share their experiences, challenges and solutions and attracts interest on the topic of biomass burning. The crowdsourcing activity started with two challenges targeting the awareness of the public and potential technological ideas to promote BB Clean and will continue in spring 2020 with the aim to set up an expert group and to stimulate exchange and innovation across countries. Everyone is welcome to participate!

MEASUREMENT CAMPAIGNS

Field measurement campaigns of air quality are performed in 4 pilot areas measuring pollutants such as nitrogen oxides, PM10, PM2.5 and PM1 atmospheric particulate

matter and black carbon resulting from woody biomass burning as well as sensible and latent heath fluxes, net radiation, ground heath, vertical temperature and humidity. Measurements are performed by using special measurement stations and equipment, operated by researchers and PhD students. Thanks to innovative data evaluation systems it is possible to distinguish the PM10 concentrations deriving from combustion of woody biomass from those deriving from the use of fossil fuels.





AWARENESS RAISING ACTIVITIES

Meetings, training sessions and workshops are held with citizens (including school children) and local administrators to explain the project themes and illustrate the results of the measurement campaigns. Main objective of the awareness raising activities is to share knowledge on advantages of biomass use for heating, measures for clean burning of biomass and potential negative effects of incorrect biomass burning on air quality, human health and climate change. Awareness raising activities are suported by citizen experiments in Italy, Austria andFrance where individual microsensors to measure the air quality have been given to volunteers. People have an opportunity to become active part in environmental monitoring.



- 5 MEETINGS
- 12 TRAINING SESSIONS
- 3 WORKSHOPS
- 3 CITIZEN EXPERIMENTS
- MORE THAN 500 CITIZENS INVOLVED

Discover more about BB-CLEAN!



HTTPS://WWW.ALPINE-SPACE.EU/PROJECTS/BB-CLEAN/EN/HOME



HTTPS://WWW.FACEBOOK.COM/BBCLEAN.AS/



HTTPS://TWITTER.COM/BBCLEAN_AS

AWARENESS RAISING AREAS

- SAINT MARCEL MUNICIPALITY, VALLE D'AOSTA REGION - ITALY
- AOSTA MUNICIPALITY, VALLE D'AOSTA REGION - ITALY
- THÖRL MUNICIPALITY. STYRIA - AUSTRIA
- COMMUNITY OF COMMUNES IN THE MONT BLANC COUNTRIES, AUVERGNE-RHÔNE-ALPES REGION -FRANCE













