BURN GREEN TO BREATHE CLEAN

Aims. Development of new strategies and tools for policy makers and citizens to reduce the carbon emissions of domestic heating in Alpine areas while improving the environmental sustainability of biomass burning

Finalities. Contributing at slowing down the climate change in the Alpine Region

16-17.10.2019 | 3. Project meeting | BLED, Slovenia

BBClean WPM update on RP2

BB-CLEAN | LP UCSC |PM Mariangela Aloe & PF Sara Siddi

UNIVERSITÀ CATTOLICA del Sacro Cuore

Pays du Mont-Blanc
communauté de communes

ARPA Valle d'Aosta

votre parten'air
Atmo
AUVERGNE-RHÔNE-ALPES

KSSENA

FH | JOANNEUM
University of Applied Sciences

ec[o]ncept

ezavod

PROJECT PARTNERS

About 1.7 MIL euro of total project value (1.4 MIL ERDF)

PROJECT OVERVIEW

Interreg
Alpine Space
BB-CLEAN
EUROPEAN UNION
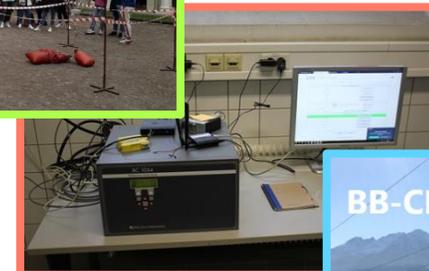
+ Work Packages

+ **WP** MANAGEMENT

+ **WPT1** KNOWLEDGE BUILDING

+ **WPT2** AWARENESS RAISING

+ **WPT3** SMART TOOLS for BB

+ **WPT4** SOLUTIONS for BB

+ **WPT5** POLICY and HARMONIZATION

+ **WP** COMMUNICATION

**Low carbon
Priority 2**

BB-CLEAN CHALLENGES

SOME Qt INDICATORS

6 **NEW** *ACTIVITIES* STARTED (20 over 27)

74%

2 **NEW** *DELIVERABLES* DELIVERED (9 over 55)

16%

FIRST DELIVERY OF THE OUTPUT (1 over 8)
O.T2.1: Crowdsourcing Challenges on a platform
with participants from various regions and
countries

12,5%

	2018									2019												2020												2021			
apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr
17.04.18	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	16.04.21
1RP									2RP						3RP						4RP						5RP						6RP			

Structure of the project 8 Workpackages

## WP1 – Knowledge Building : <u>ARPAVDA</u>

1.1. CO_2 emissions and impact of BB on the air quality in the Alpine Valleys
1.2. Survey of the BAT and local biomass availability for domestic heating with BB
1.3. Survey of the available economic and financial instruments to support BB in the AR
1.4. Assessment of the state of the art of the regulations for BB in the Alpine Region
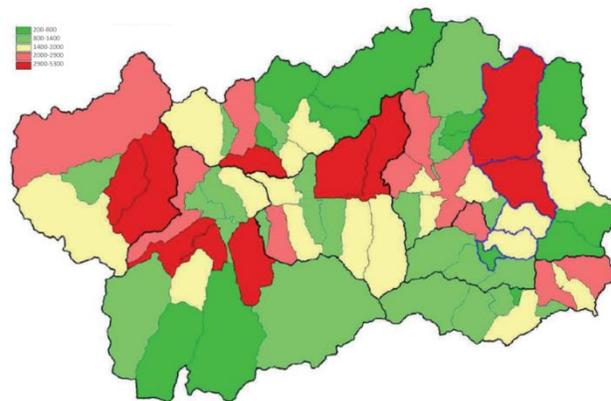
Flue gas cleaner MK (Slovenia)

Wood stove indoor
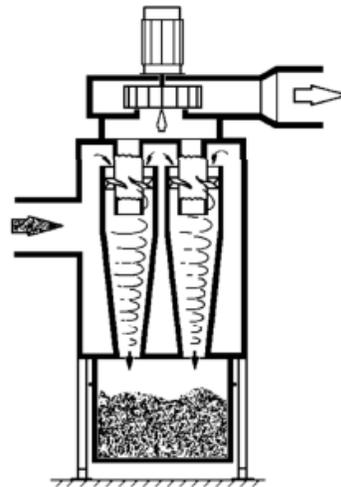
Workshops
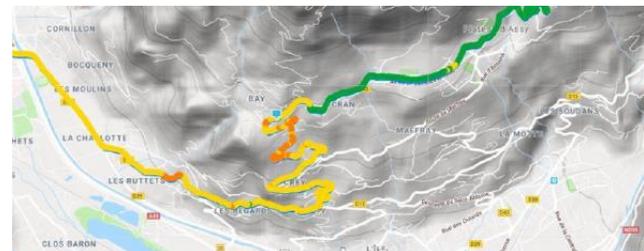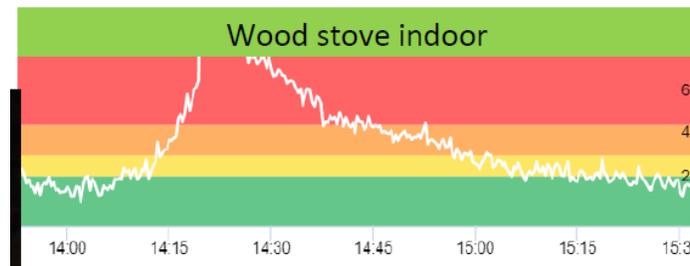
WP2 – Innovative methods to improve engagement and awareness raising in pilot areas

2.1. **Evaluation of citizens exposure to PM from different biomass combustion appliances in domestic and outdoor environments**

2.2. **Implementation of a real time feedback system to foster the sustainable use of biomass for domestic heating production**

2.3. **Crowdsourcing activities for awareness raising amplification**

Structure of the project 8 Workpackages

WP3 – Smart tools for a sustainable biomass burning

3.1. **Development of a mobile app to promote a more sustainable use of BB for domestic Heating**
3.2. **Implementation of a high-resolution weather forecast model to feed the app**
3.3. **Environmental measurements supporting the model calibration**
3.4. **Development of an online tool to meet the local supply and demand of biomass**
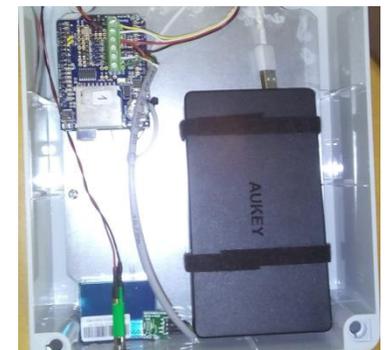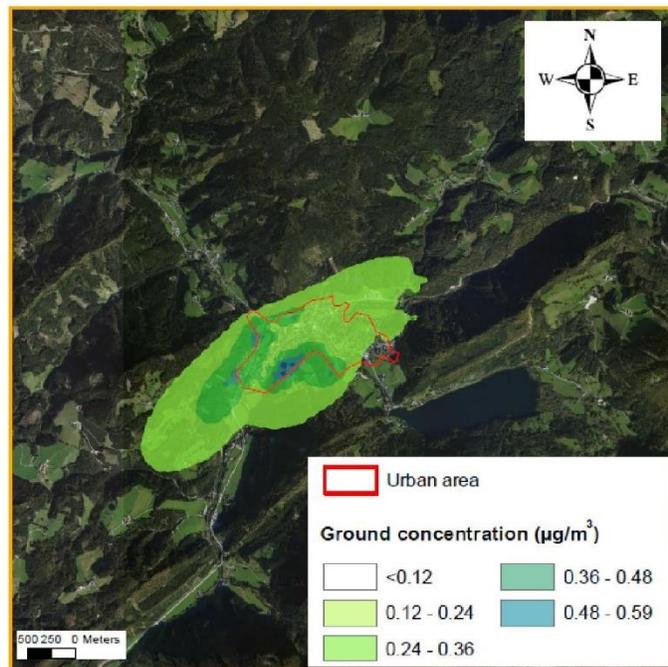
Structure of the project 8 Workpackages
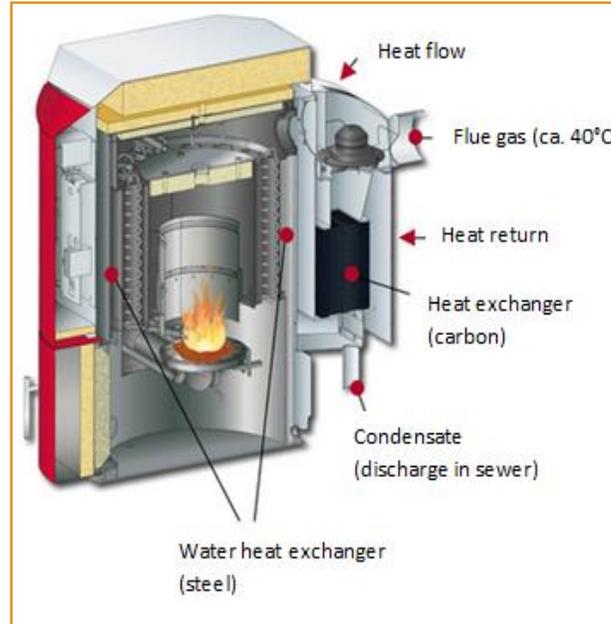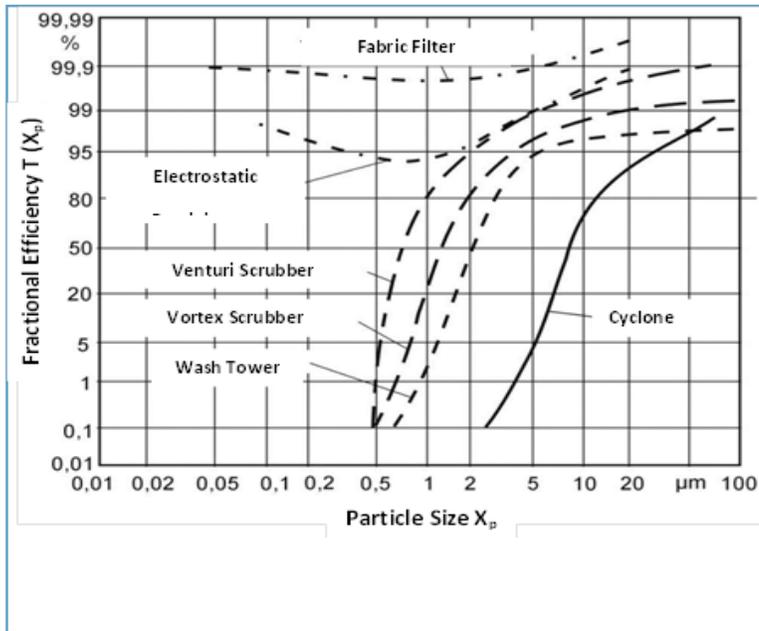
WP4 – Sustainable technical and financial solutions for BB

4.1. **Innovative technical solutions to make BB more environmentally sustainable**

4.2. **Sustainable Business Models towards clean BB**

4.3. **Towards financially sound clean BB in the AR**

4.4. **Development of shared energy guidelines**

4.5. **Implementation of public energy counselling services in pilot selected areas**

Structure of the project 8 Workpackages

WP5 – Development of policies and their harmonization

5.1. **Participated search for policy solutions for cleaner BB (Crowdsourcing)**
5.2. **Modelling evaluations of the outcome of possible regulative scenarios in pilot areas**
5.3. **Round-table with policy-makers at local, regional and national level**

Structure of the project 8 Workpackages
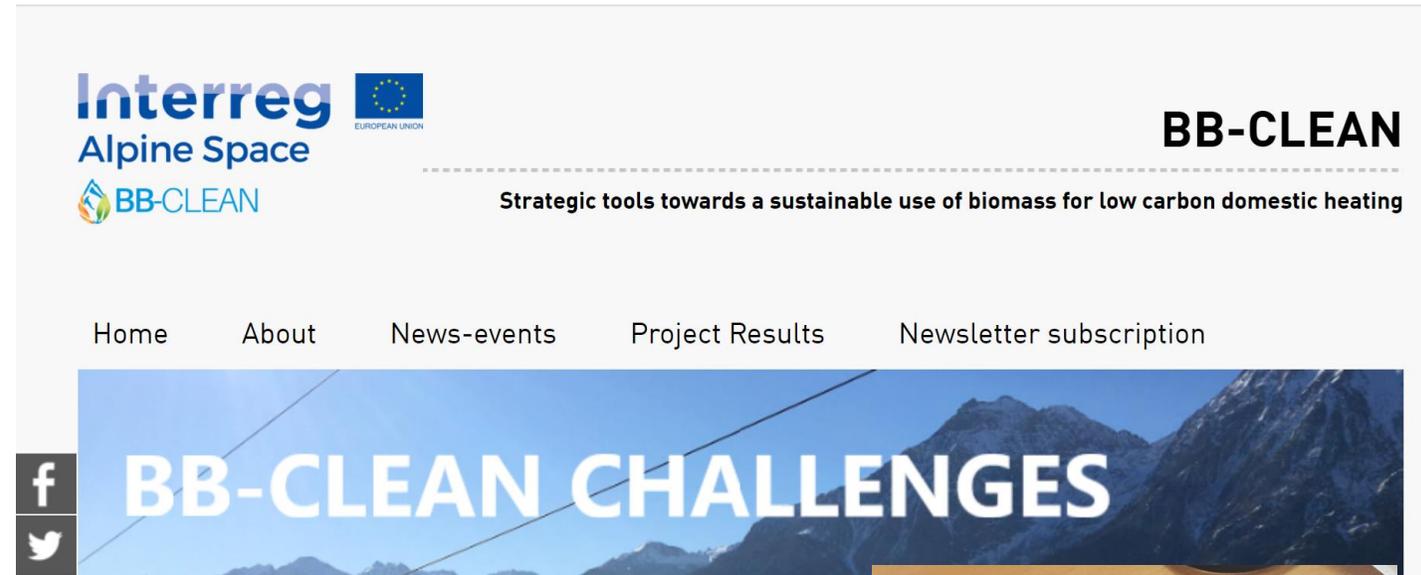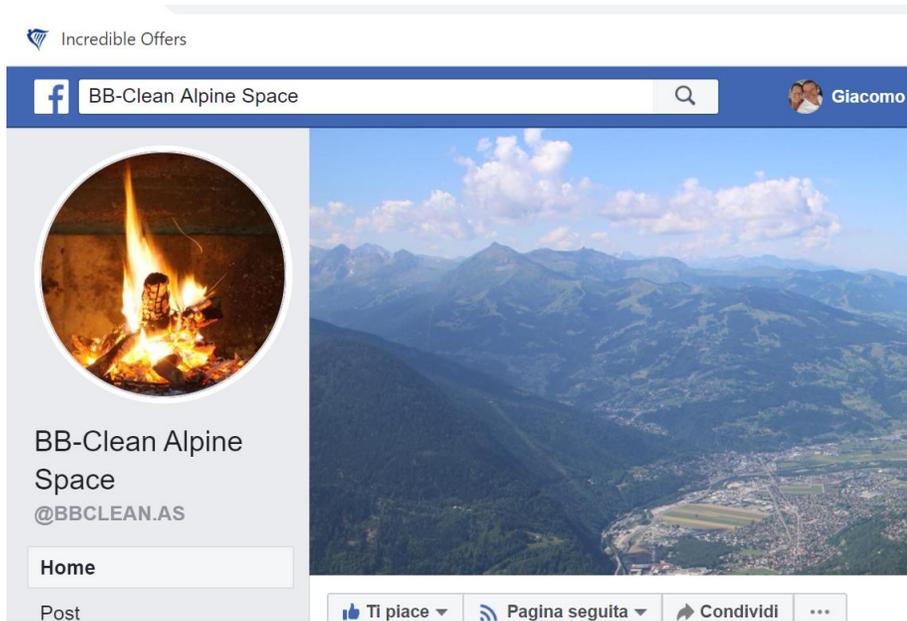
C.1 **Start-up activities including communication strategies**

C.2 **Publications**

C.3 **Public events**

C.4 **Promotional activities**

C.5 **Digital activities**

OUTPUTs

Interreg
Alpine Space
EUROPEAN UNION
BB-CLEAN

WPT2 – INNOVATIVE METHODS TO IMPROVE ENGAGEMENT AND AWARENESS RAISING IN PILOT AREAS

O.T2.1 Crowdsourcing Challenges on a platform with participants from various regions and countries

WPT1 – KNOWLEDGE BUILDING

O.T1.1 BIOMASS CHAIN KNOWLEDGE PLATFORM

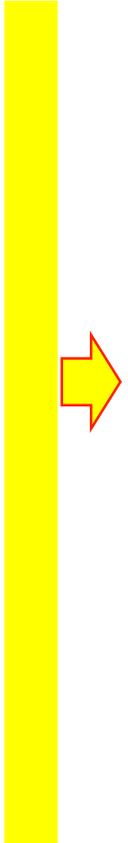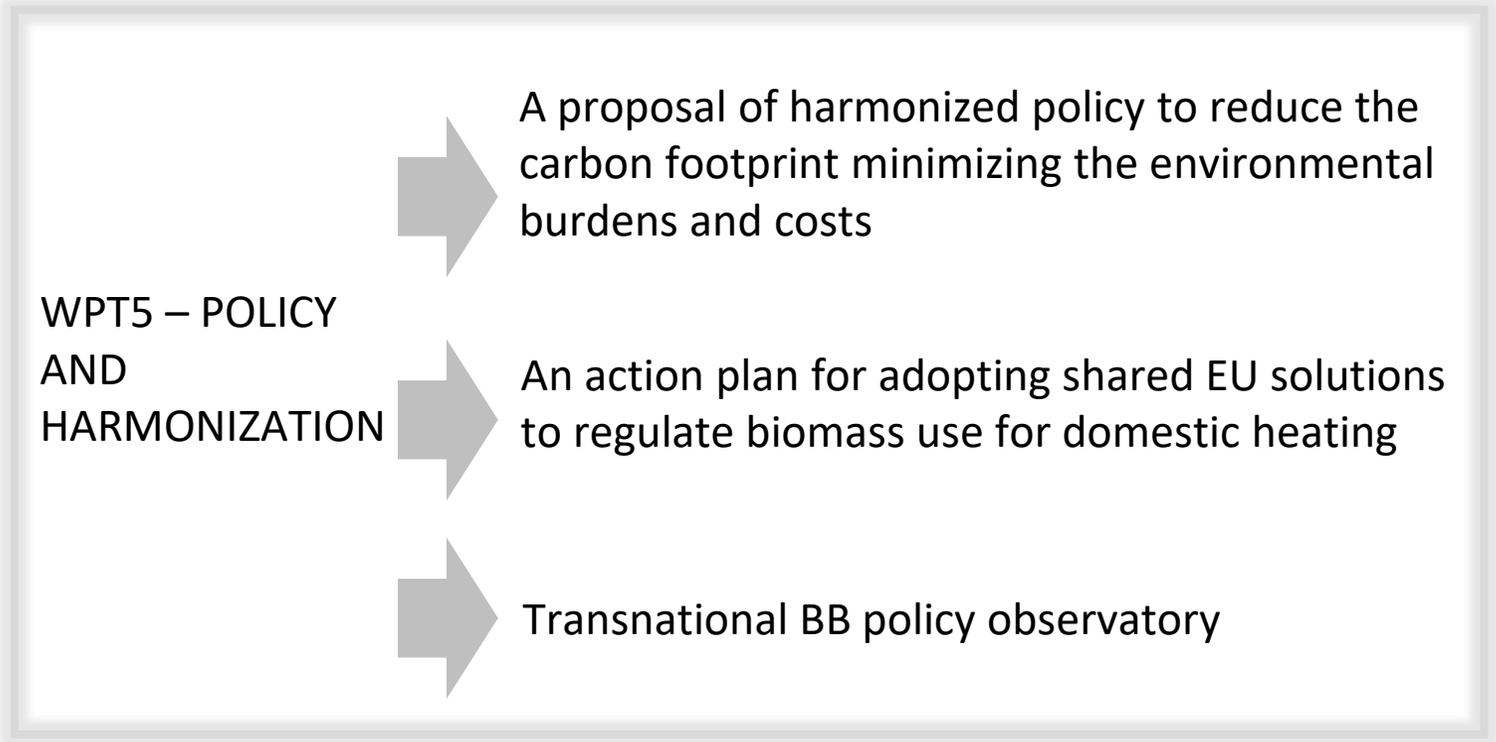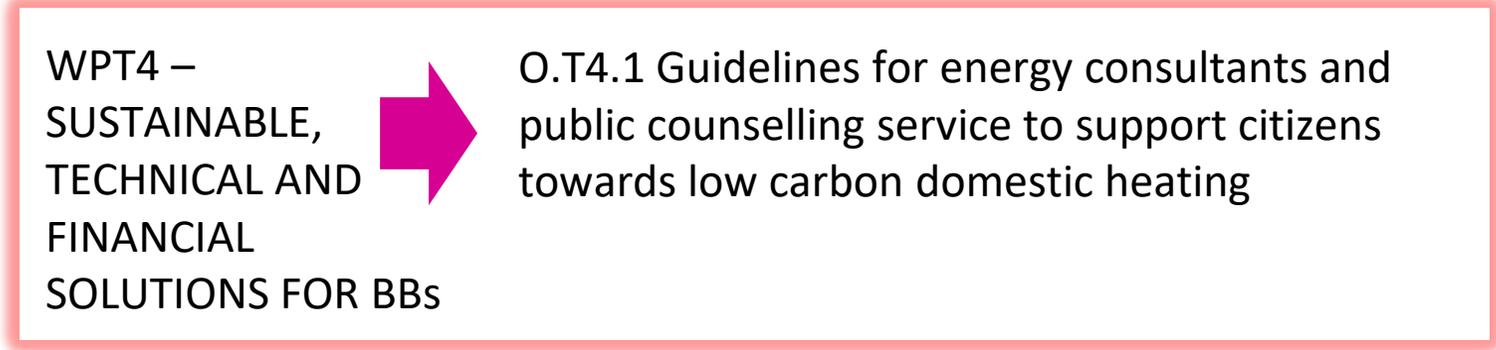WPT3 – SMART TOOLS FOR A SUSTAINABLE BIOMASS BURNING

O.T3.1: A free mobile app. to address people to a more sustainable use of BB for domestic heating

O.T3.2: A manual for the transferability of the customized model to other areas of the AR:

AWARENESS RAISING

OUTPUTs

WPT4 – SUSTAINABLE, TECHNICAL AND FINANCIAL SOLUTIONS FOR BBs

O.T4.1 Guidelines for energy consultants and public counselling service to support citizens towards low carbon domestic heating

WPT1 – KNOWLEDGE BUILDING

O.T1.1 BIOMASS CHAIN KNOWLEDGE PLATFORM

WPT5 – POLICY AND HARMONIZATION

A proposal of harmonized policy to reduce the carbon footprint minimizing the environmental burdens and costs

An action plan for adopting shared EU solutions to regulate biomass use for domestic heating

Transnational BB policy observatory

DEFINITION OF STRATEGIC TOOLS

Tangible and durable RESULTS

- Number of domestic heating plants which will adopt filter auxiliaries and heat storage systems to reduce the environmental impact of biomass burning

- Reduction (quantify %!) of the mean levels of PM concentrations due to BB in Alpine areas and consequent reduction of citizens' exposure to PM

- Number of heating systems converted to more efficient systems or converted from fossil fuel (e.g. oil) to biomass

- Reduction (quantify %!) of emissions of CO_2 in the pilot areas

- Number of free Municipal pilot Energy Consultories for citizens in case study areas

- A Policy relevant document for the advisory boards of Regional, National and EU Parties on new perspectives for tuning Biomass Burning for domestic heating in a more environmentally sustainable way

WICH Target Groups will use the Outputs?

WPT1 → **Local Pub Auth, Sectoral Agency, Interest Groups/NGOs, Gen Pub**

WPT2 → **Local Pub Auth, Regional Pub Auth, Sectoral Agency, Interest Groups/NGOs, Enterprise, SME,Gen Pub**

WPT3 → **Local Pub Auth, Sectoral Agency, Interest Groups/NGOs, Higher Edu and research, Gen Pub**

WPT4 → **Local Pub Auth, Regional Pub Auth, Sectoral Agency, Edu. , Enterprise, SME,Gen Pub, Busines support**

WPT5 → **Local Pub Auth, Regional Pub Auth, National Pub Aut, Sectoral Agency, Interest Groups/NGOs, Busines support**

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UCSC

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in instagram.com/bb_clean_alpine_space

www www.alpine-space.eu/projects/bb-clean

OUTPUTs

WP1 - Biomass chain knowledge platform

WP2 - Crowdsourcing platforms with participants from various regions and countries.

WP3 - A free mobile app to address people to a more sustainable use of BB for domestic heating
WP3 - A manual for the transferability of the customized model to other areas of the Alpine Region

WP4 - Guidelines for energy consultants and public Counselling service to support citizens towards low carbon domestic heating

WP5 - A proposal of harmonized policy to reduce the carbon footprint minimizing the environmental burdens and costs
WP5 - An action plan for adopting shared EU solutions to regulate biomass use for domestic heating
WP5 - Transnational BB policy observatory