

CONDEREFF NEWSLETTER

CONDEREFF 
Interreg Europe

CONSTRUCTION & DEMOLITION WASTE MANAGEMENT
POLICIES FOR IMPROVED RESOURCE EFFICIENCY

ISSUE NO 3 | NOVEMBER 2019



In this issue

CONDEREFF in brief, page 2

Exchange of experience activities, page 3

CONDEREFF events, page 4

CDW in Czech Republic, page 6

State of progress in Auvergne-Rhône-Alpes, page 6

Partners' Events, page 7

The CONDEREFF partnership, page 10

Dear reader,

Welcome to the third edition of Newsletter series of the CONDEREFF project!

CONDEREFF is a European project funded by the INTERREG Europe Program that aims to share and disseminate best practices of waste management, reduction and recycling to stimulate and support their implementation in partners' territories.

In the following pages, you will find interesting materials describing the overall context and objectives of the project as well as information on the latest developments and events, and the upcoming ones.

Do not hesitate to subscribe on our newsletter channel at: <https://www.interregeurope.eu/condereff/>

We shall keep you informed about our progress and key outcomes through the project website, thematic events, and newsletters.

The CONDEREFF project team

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CONDEREFF in brief

C&D waste streams represent **20-30% of all wastes generated in Europe**, reaching up to the two-third of the total wastes generated in some countries. Reuse rates vary across EU countries (10-90%). The Waste Framework Directive (2008) and the Construction 2020 strategy set a **70% recycling and reuse rate of CDW by 2020** and the Circular Economy Package also prioritizes CDW.

CONDEREFF aims to **strengthen regional capacities for increasing recycling and reusability rates of C&D waste** in the regions participating in the project. The project brings together 8 partners from 5 EU countries which work together during the 5 years of the program to analyze the CDW context in the regions, understand the stakes and get a clear view about brakes and levers on which to play with to ease the implementation of solutions.

To cope with the objectives, it is needed to **rethink the way products, materials and resources are designed, produced, used and disposed**. Challenges are many: organizational, technical, logistical, cultural and economical, and call for investment in R&D, new techniques and support of the overall value chain development.

From a planning perspective, the project is split into **two major phases**. The first, which has started in June 2018, focuses on studies & analysis, including policy learning, market potential for CDW, network mapping, tools and resources for monitoring, tracking management of CDW. The second, starting at the latest in June 2021, is about implementation of action plans and testing of solutions in territories.

Exchange of experience activities

A1.1 Comparative analysis of regulatory frameworks for C&D waste management and evaluation alongside the EU protocol



A1.2 Investigation of the economic potential of C&D waste and corresponding priority areas for regional C&D recycled materials markets



A1.3 Analysis of the available and required C&D recycling capacity in the project territories



A1.4 Mapping stakeholder and public awareness, perception, and acceptance of C&D waste re-use potential and value



Timeline of the different activities of work package A: Exchange of experience, with the current progress.

Focus on the activity A1.2

The overall goal was to identify the demand and re-use potential of recycled C&D waste together with the C&D waste streams and volumes generated in the territories surveyed. This report presents the analysis of the survey results and elaborates on key findings that emerged throughout the analysis. Specifically, the report focuses on two priority areas:

1. Regional policies that promote the recycling and re-use of C&D waste, and
2. The economic and market demand for various recycled C&D waste materials.

• From project partners' data:

- Unclassified C&D waste, which represents mixed C&D waste, soils and stones, and insulation materials is the most prominent category in terms of its volume in all regions, reaching significantly high numbers in the Lazio and in the Rhône-Alpes regions.

- The highest volume of C&D waste recovery is in Sachsen-Anhalt, where it reaches 96%, being also considerably high in the Lazio region at 75%, Rhône-Alpes at 62%, and Steiermark at 60%.

- As far as the recovery of public cost of managing C&D waste in the CONDHEREFF regions is concerned, landfill tax appears to be the most common practice where 5 out of 7 regions use such practices.

- In terms of number of businesses, the most active segments of the C&D waste value chain in CONDHEREFF regions is C&D waste generation and collection; the second is C&D waste treatment (including companies processing and recycling collected waste), and the third is industries using recycled or reused waste materials.

- The main industries exercising the demand for recycled aggregates are predominantly the road construction

industry, concrete, cement and gypsum producers. In terms of the type of application, most recycled aggregates are used for low-performance applications, such as foundations or road bases.

- The road construction industry constitutes one of the most important buyers of recycled aggregates; similarly, it is the industry that project partners perceive of having the highest economic potential for exploiting recycled C&D waste materials.

• From stakeholders' data

- Aggregates, concrete, and to a lesser extent bricks and gypsum products were identified to be the recycled C&D materials with the highest economic potential.

- The main industries exercising the demand for recycled aggregates are predominantly the road construction industry, concrete, cement and gypsum producers.

- The most important benefit foreseen from the exploitation of recycled C&D waste is the reduction of costs.

- The most important barrier to the use of recycled C&D waste is lack of governmental support, with lack of specific End of Waste criteria and lack of supervision and regulations in recycling and reuse following closely as second and third most pronounced barriers respectively.

- The most pronounced enabler is considered to be the introduction of mandatory requirements from governmental authorities, such as public procurement standards that target recycled C&D waste materials; equally important enablers are considered the introduction of financial incentives for the use of recycled C&D waste materials in the renovation and construction sectors, the promotion of relevant training in the industry and the increase of the tipping fee for landfilling C&D waste.

CONDEREFF Events

Steering Committee in Lyon

During the steering committee in Lyon, CONDEREFF partners had the chance to visit two innovative sites – the Autre-Soie and the Minéka warehouse.



William Lafond, as co-coordinator of the Autre-Soie project, presented the site's location and renovation project to partners. L'autre soie building is a place where different social and professional categories (students, people with disabilities or illnesses, the elderly, low-income households) meet every day. This site promotes social integration by allowing associations with limited resources to benefit from spaces below market prices and artisanal workers to have some space so they can handmade handbags with old plastic watering pipes that have been used in agriculture, for example. Finally, as the site will be transformed, they reach a goal of reusing 9% of the 10 tonnes of building waste during the deconstruction.

Joanne Boachon, director of Minéka warehouse, an association which participates in the development of the reuse of building materials sector by collecting, auditing, proposing recommendations and facilitating access from supply to demand in the Lyon metropolitan area (within a radius of 50 kilometres).



Since the creation, 15 tons of reused materials have passed through the warehouse since its inception 3 years ago, observing a real enthusiasm for reuse. The warehouse collects the building materials and components dismantled on site during deconstruction work and evaluates the components potential for reusing and reintegrating them in construction and renovation sites. 200 members of the association benefit from materials in a catalogue which are sold at a solidarity price: 20% below market prices. However, these materials are sold without insurance, they are mostly used for furniture or finishing work materials. This association is a pioneer actor in the region in the region in the implementation of virtuous recovery solutions.

International workshop in Rome



CONDEREFF partners organised an international workshop in Rome on 26 and 27 September, with the aim to give an overview of good experiences at European level in public procurement, useful to encourage the efficient use of C&DW management. In order to reach this goal, several presentations were made by the partners concerning GPP and the tendering system as well as a presentation of the EU Protocol on C&DW management. The first day focused on the use of public procurement in the partnership countries, as a driver for resource efficient C&DW management. The host had the opportunity to invite stakeholders from national institutions to present GPP as applied to the tendering system to encourage an efficient reuse for the management of inert. Several aspects of public procurement were dealt with in order to make sense of existing opportunities at policy and legislative level to improve resource efficiency in the C&DW cycle management.



The EU directive on waste has been transposed in each participating country with success but some procedures to apply the new standards identified to categorize the materials are still lacking precision and need to be more detailed. The potential of public procurement as driver for reuse efficient in C&DW management is very high considering its rate in the national GDP in most European countries. In order to effectively impact as leverage for the spread and up-to-market of C&DW materials, the tendering needs to include all necessary criteria of sustainability and better define the qualitative terms used.



Good practices emerged from the context such as: *The Guide to reuse and recovery waste from the Saxony-Anhalt's region; the collection through home repairs in the process of the CDW of municipal competence in Valencia; the obligations contained in the National Action Plan for Green Public Procurement "PNAAPD" (2015 – 2020) in France and the proposal presented in a call launched by the Lazio region under the ERDF 2014-2020 named "Apea Diffusa", a spread Ecologically Equipped Industrial Area.* On the second day, an interesting visit was paid to two plants of rubbles selection and recycle present in the area of the "cratere". The area of the "cratere", namely the one hit by the earthquake in August 2016, is around the municipalities of Amatrice and Accumoli, with the involvement of about 100 fractions (mainly very small villages inhabited by few hundreds of people).

The first one, managed by the private company named GARC, was organized inside a cave originally used to extract raw materials, close to Amatrice town. The selection was made by machines first and then manually to refine the separation of the different material present in the rubbles. Once each piece selected was resized and made available for use, the secondary material was ready to be reintroduced in the construction sector.



Concerning the focus of the Interregional Workshop II, it is important to underline that recovery of materials was envisaged following the rubble selection process: the recovered product fractions (wood, iron, steel, copper, bronze, brass, aluminum, mixed metals, bulky, WEEE, insulating materials, plastics, cables, etc.) have been assigned to the authorized recovery plants and identified, already during the tender, by the economic operators. The recovery of the inert fraction was re-used in the construction of infrastructures: primary urbanization works, the foundation of Emergency Housing Solutions (SAE), road infrastructures, etc.



CDW in Czech Republic

Policy news from the Pardubice region

Ordinance on criteria where the asphalt mixture is a by-product or ceases to be waste: this Decree incorporates European Union legislation and lays down detailed criteria for the fulfilment of which the recovered bituminous mixture can be considered as a by-product and not waste. The decree defines the asphalt mixture, specifies the criteria for the recovery of the asphalt mixture, its quality classes and the criteria for the use of the recovered asphalt mixture. Sampling and testing shall be carried out with the Czech technical standard ČSN EN 14899 of 1 July 2006. This Decree became effective on 1 June 2019.

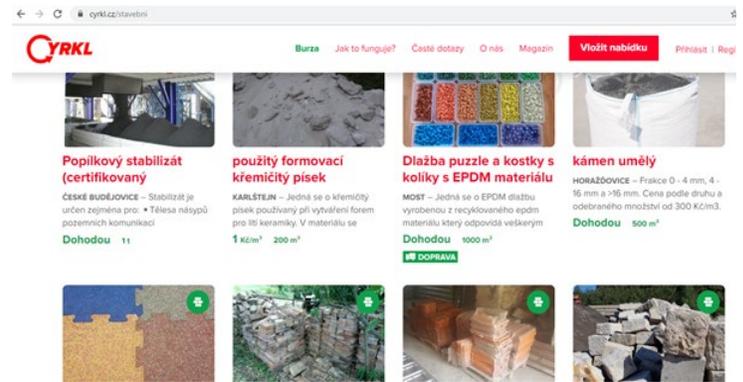


CYRKL or the online secondary raw material exchange

A website has been created in the Czech Republic, which is intended for all representatives of companies and municipalities that either offer or demand secondary resources. CYRKL aims to bring creativity and innovation to the world of waste management.

It enables the optimization of the management of waste and by-products of production by passing on from those who have to those in need.

The very foundation was laid in 2018 by Cyril Klepek (CEO), an innovation expert specializing in the circular economy. Soon after, Laura Mitrolios of the Institute of Circular Economics (INCIEN) joined him. But the company is an entire ecosystem consisting of other experts in innovation, circular economy, digital marketing and progressive waste management.



How does everything work at CYRKL.cz? Very simply, the whole site is free of charge including registration and all additional services. Once you find what you're looking for, just look at the advertiser's contact information and either through the contact form or contact them directly. Entering a menu is also easy. There is a need for registration that does not take more than a few minutes. There is also support where the team takes care of finding the right buyer. Offering on the source platform entities can offer all recycled materials, by-products and generally secondary raw materials from the areas of plastics, building materials, paper, textiles, glass, electrical waste, etc. that are not in waste mode. www.cyrkl.cz

State of progress in Auvergne-Rhône-Alpes

The 3rd semester was an opportunity for the AuRA-EE agency to confirm the interest of deepening the following key topics inherent to the development of sustainable recovery of construction materials and waste:

- ✓ Solutions to remove insurance brakes for the use of 2nd life materials, in particular regarding reuse
- ✓ Knowledge of the recovery solutions proposed by the players at the local level

- ✓ Knowledge of standing deposits, existing building and infrastructure stocks (principle of territorial metabolism) to initiate reconversion and material recovery reflections well in advance of projects
- ✓ Raising awareness among project leaders and sharing experience, training public actors in tools and clauses to develop public procurement in line with these new practices.

On this basis, it is planned to meet with the AuRA region that initiated the Waste Plan on its territory and the various networks and actors on the periphery of the communities to discuss the Waste Plan's action plan and its implementation in the territories.



AuRA-EE makes a link on these same actions with the Grenoble Metropolis, a committed territory working on construction waste.

This territory seems determined to implement the reuse of materials in its construction projects and have made a major contribution to raising AuRA-EE's awareness of reuse practices during the three days organized between November 2018 and June 2019 at the Grenoble School of Architecture (with the participation of ENSAG, ROTOR, BELLASTOCK and many other reuse actors at the state-of-the-art).

Partners' Events

Lazio Region 2nd Stakeholders meeting: Regulation on inert material recovery – assessment for a circular economy

The objective of the meeting was to reflect on the effectiveness of the new European Directives contained in the Circular economy Package to be adopted in our territory, trying to understand how to best apply the standards envisaged generating an impact on the sustainability and economic development of the C&DW management supply chain.



The speakers discussed on the economic impact of the new directives contained in the EU circular economy package concerning the waste management, published in the Official Journal of the EU on the 14th June 2018, which have to be transposed on the National Italian Law by the 5th July 2020. The success or failure of the objectives set by the circular economy package will much depend on the capacity to enforce the forthcoming legislation by the national and regional institutions and on the adaptability of companies to the new standards envisaged.

The approval in 2012 of the regional guidelines for the management of the recycling, recovery and disposal chain of inert waste represented a good practice of participative process with sectorial companies in a technical panel.



The Guidelines foresees the presentation of a "Waste management Plan" among the design documents of building interventions, that represents a tool to better organize the work in the construction sites avoiding incurring defaults with respect to legal obligations. Much emphasis has been given by the companies who made their presentations on the necessity to integrate recycled aggregates into the production process through simplified regulation, suitable incentives and clear policies. Even the academic world agreed on the strategic importance of tools such as the GPP or pre-audit demolition that may encourage the entire sustainable C&DW management. An important presentation was made by Lazio region on the management of rubbles after the earthquake occurred in the city of Amatrice and Accumoli and their fractions in 2016. In such event, the recovered product fractions have been assigned to the authorized recovery plants and identified already during the tender by economic operators while recovery of the inert fraction was reused in the construction of infrastructures.

Special Forum CONDЕРЕFF at the SBE19 Graz – Sustainable Built Environment D-A-CH Conference 2019

The SBE19 Graz is part of a major international series of conferences that focuses on sustainable buildings and construction. The series was launched by the International Council for Research and Innovation in Building and Construction (CIB) and the International Initiative for a Sustainable Built Environment (iiSBE) more than ten years ago, and these partners were subsequently joined by the Sustainable Building and Climate Initiative (SBCI) of UN Environment, the International Federation of Consulting Engineers (FIDIC) and the Global Alliance for Buildings and Construction (GABC).



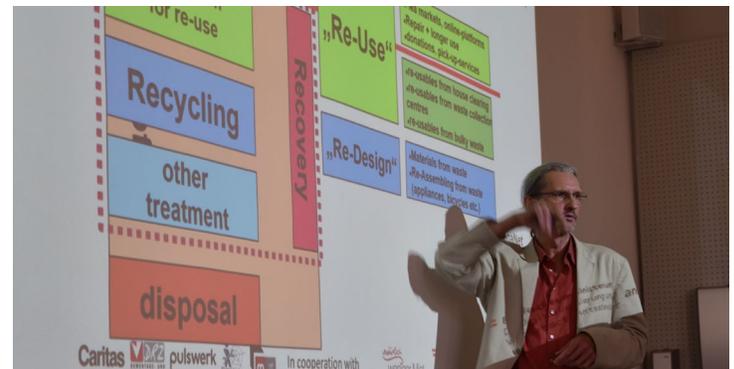
The series, now on a three-year cycle, has become recognized as the world's preeminent conference series in this important field. The series consists of a first year of planning, followed by a series of regional conferences in the second year, and culminating in a global event during the third year. In 2019, SBE19 Graz will be one of the regional conferences, while the global conference World Sustainable Built Environment Conference (WSBE2020) will be held in Gothenburg, Sweden in 2020.



Partner Styria was invited to lead a Special Forum during the conference. During the Special Forum CONDЕРЕFF Mrs. Ingrid Winter, Head of the Department of Waste Management and Resources of the Province of Styria, presented the project and its importance for the further development of the strategy in the field of construction and demolition waste for Styria.



Mr. Josef Mitterwallner, employee of the department, presented the Styrian guideline for construction and demolition waste and its extension by the field of reuse in the construction sector. Mr. Matthias Neitsch presented the latest successes of the project Baukarussell (www.baukarussell.at). This project deals exclusively with the issues of the reuse of components and measures for the dismantling of buildings as well as the creation of jobs in this area.



Mr. Roland Starke from the Austrian Ministry for Sustainability and Tourism presented the Recycling Building Materials Ordinance and the current obstacles to its implementation.



ENEA at the conference on Circular Economy implementation in the Mediterranean

ENEA contributed to conference on Circular Economy implementation in the Mediterranean area its role and experience in the C&D waste valorisation with a special reference to the CONDEREFF and Decorum projects.



The conference was hosted in Catania in April 2019 by the *ECO-Med Green EXPO*, a fair on sustainability and resource efficiency in the Mediterranean area, with the objective to share knowledge on circular economy in the construction sector with all stakeholders attending. Moreover the presentation focused on the underway activities in this field developed by ENEA, such as the CONDEREFF project.

ENEA at the INERTIA conference on circularity and sustainability in the construction sector

ENEA contributed to the INERTIA conference on circularity and sustainability in the construction sector describing its role and experience with a special reference to CONDEREFF. The conference was hosted in Ferrara in September 2019 by the REM TECH EXPO, an international event dedicated to reclamation of contaminated sites, environmental and natural hazards, safety, maintenance and upgrading of the territory, climate changes and circular economy. The main objective of INERTIA was to share knowledge on circular economy in the construction sector.



RRAPK at the Cities of the Future 2019 conference

RRAPK participated in the conference Cities of the Future 2019 in Prague on the 30th of September 2019. The conference dealt with the challenges and solutions to the current needs of cities and municipalities. It focused primarily on innovative topics such as new technologies, but also the basic needs of towns and municipalities. The amendment is being prepared in cooperation with European Union directives and regulations, the Ministry of the Environment and other ministries and brings changes in the area of permitting and operation of waste management facilities, waste collection, addressing illegal landfills and waste trading. The law will extend the landfill period from 2024 to 2030. The amendment has not yet been finalized and is still under revision. It should come into force in 2021.



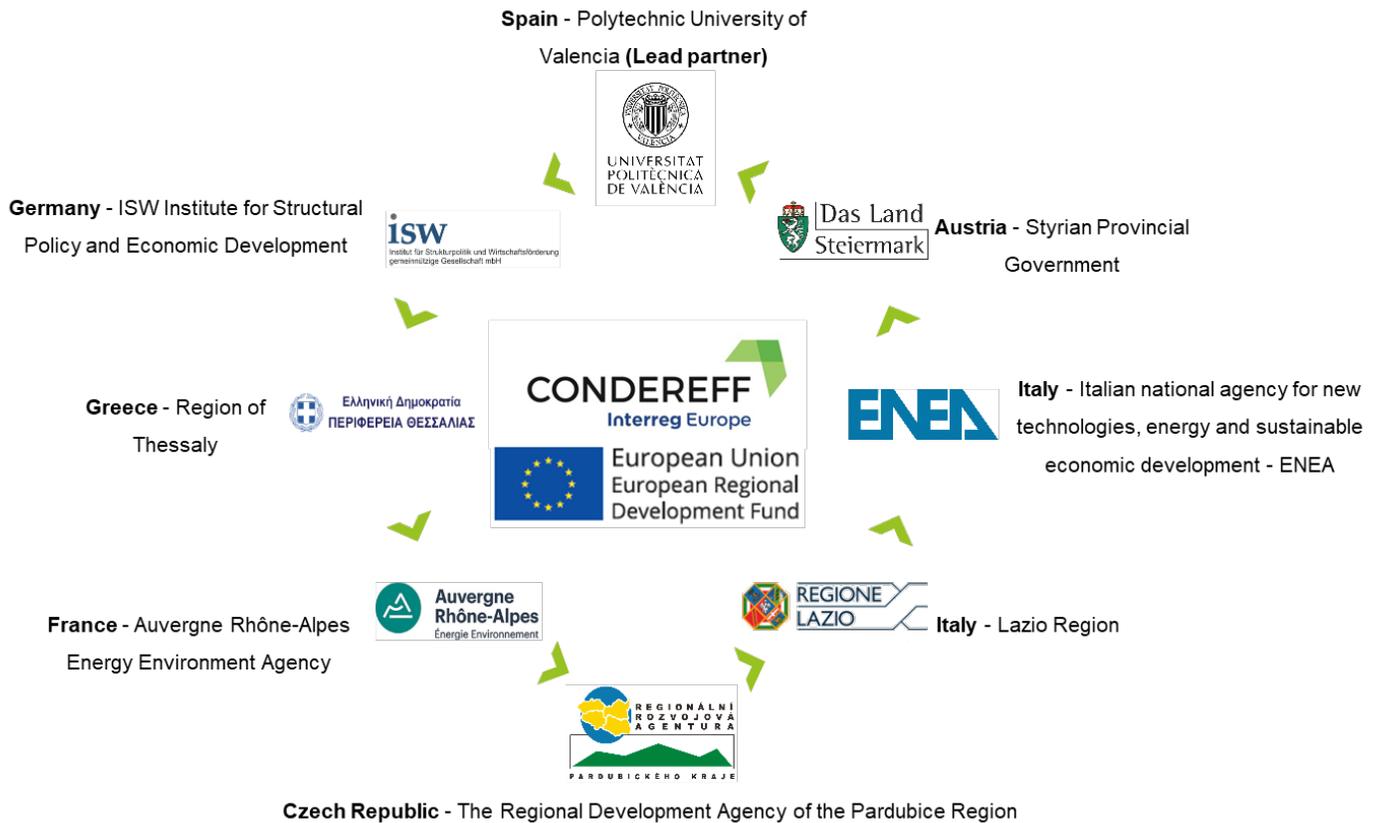
CONDEREFF at the 9th Green Standards Week

From 1st to 4th of October this year, the 9th Week of the Green Standards took place in Valencia. This international congress organized by the United Nations served as a global platform for debate and knowledge sharing in order to raise awareness about the importance and opportunities to use ICT to protect the environment, move towards a circular economy and accelerate the transition to smart, sustainable cities.



SAV was one of the sponsors of this event and our stakeholder Consuelo Gomez, gave a conference on circular economy speaking about all the different projects they participate by taking this opportunity to promote CONDEREFF among the attendees. Thus, it emphasized the importance of the reduction of waste by using recycled materials and the optimization by using natural resources. Also, there was described the experimental plan carried out by SAV for the selection of recycled material for the road's construction.

The CONDEREFF Partnership



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EDITORIAL

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