Encyclopenrgy

A crowd-open-sourced encyclopedia of financing tools, business models, and regulatory frameworks enabling energy efficient solutions for the built environment.

Pietro Visetti



The Challenge

• More than 220 million building units, representing 85% of the EU's building stock, were built before 2001. 85-95% of the buildings that exist today will still be standing in 2050.

Digital Finance Alliance

- Overall, buildings are responsible for about 40% of the EU's total energy consumption, and for 36% of its greenhouse gas emissions
- The weighted annual building energy renovation rate in the EU is 1%. Across the EU, deep renovations that reduce energy consumption by at least 60% are carried out only in 0.2% of the building stock per year. At this pace, cutting carbon emissions from the building sector to net-zero would require centuries.
- The financial gap is one of the biggest barrier to building renovations

The motivation

We have found our selves at a crossroads. **Buildings energy** efficiency is not moving fast enough to meet the Paris Agreement goals. Innovative financial instruments, business models and regulatory frameworks are urgently needed.

There is the need of creating a comprehensive compendium to **support** the spread and scale of innovation in financing solutions, business models, and regulatory frameworks to accelerate the transition to a less carbon-intensive built environment.







The idea

We want to create a **contributor-based** intelligence repository of worldwide financing solutions, business models, policy and regulatory frameworks which enable, empower, and scale energy efficiency in the real-estate industry to offer a **free knowledge network** of enablers to support the scaling of decarbonisation pathways for the global built environment.





Green Digital Finance Alliance

The story

The idea germinated from the 'Climate Positive Circular Communities' project, short name **ARV**, which is **funded by the European Green Deal initiative** as an Innovation Action within the Horizon 2020 Framework Programme. The overall aim of the ARV project is to demonstrate and validate attractive, resilient, and affordable solutions for **Climate Positive Circular Communities**.

GDFA leads the ARV work on business models, financial instruments, policy and exploitation. **GDFA developed the Encyclopenergy as part of the ARV project**.







Encyclopenrgy

The solution

Encyclopenergy



AN ANTIME AND



Encyclopenrgy

Encyclopenergy

Home About Contribute v Encyclopedia v Dictionary Contacts

Welcome to

Encyclopenergy

The Encyclopenergy is a crowd-open-sourced **encyclopedia** of <u>energy efficiency</u> enablers. It is a **crowdsourced global catalogue** of financing tools, business models, and regulatory frameworks <u>enabling energy efficient solutions</u> for the **built environment**.



Let's take a visit Encycl**open**ergy at this <u>LINK</u>







The Challenge continued

- Building renovation is one of the sectors facing the largest investment gap in the EU.
- EUR 275 billion of additional investments are needed per year to achieve the 55% climate target by 2030
- For residential real-estate lack of simple, attractive and easily accessible public incentives for renovation and lack of mainstream financing products is one of the biggest barriers.
- EU and national public funds can be more effectively targeted and better channelled to the end-users by making it easier to blend various sources of financing, making the intensity of support proportional to performance, strengthening technical or project development assistance and promoting synergies with market-based mechanisms.

Ne w Objective

Design, test, demonstrate, evaluate, and scale new business and financials models for transitioning neighbourhoods to carbon positive Green

Digital Finance Alliance

Through experimentation in demo labs across 6 EU jurisdictions

We want to rebuild trust

Rewriting a positive story about tomorrow

Favoring intermediate sub-communities

Reinforcing human connections for the planet

Recreating social bounds beyond origins



Green Digital Finance Alliance

Thank you Questions, remarks, feedback, ideas?

Green Digital Finance Alliance

pv@sustainabledigitalfinance.org