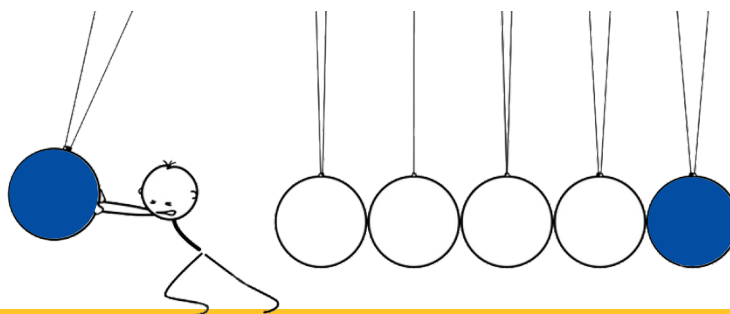


# PUBLIC REPORT- BC4P 2021-2023

*“A doable technology for peer 2 peer energy trading”.*



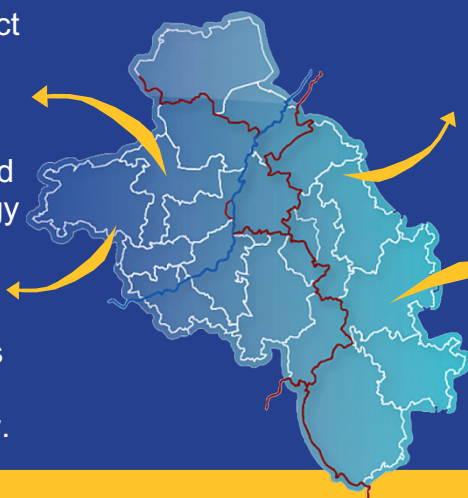
START PROJECT  
**2021**

END PROJECT  
**2023**

This project received 1.769.211,82 EUR funding of which 1.112.228,07 EUR were granted by the European Regional Development Fund (ERDF).

This pioneering project underscored the transformative potential of efficient energy monitoring and opportunities in energy trading.

The conclusions of this project help in the fight against energy poverty.



The figure of the ‘Prosumer’, producer of energy, as opposed to the ‘Consumer’, consumer of energy was made stronger in the literature and in the practice of energy sharing.

Sharing energy could be part of the solution to the problem of climate change.



## Ambitions of BC4P:

Monitor energy in order to save it and share it.

Set up a community of ‘prosumers’ and ‘consumers’ willing to share energy.

Fight energy poverty and climate change as a consequence of bad energy management.

To achieve substantial improvements in the peer-to-peer energy market, Universities, Universities of applied sciences, business support associations and SMEs have joined forces, resulting in **Project BC4P**.



1

### Investigate Market Regulations



- What is the state of the art for Energy Sharing in Europe?
- What is the state of the art for Energy Monitoring in Europe?

2

### Blockchain technology and interfaces

- Evaluation and implementation of a blockchain technology to decentralize and enable a peer-to-peer energy market.
- Assess and develop interfaces between blockchain technology and prosumers. This includes authentication, crypto-smart meters, energy grid distribution data and an exchange platform for experimenting with trading.



3

### Develop pilots and communicate about results



- Pilot Hasselt: #lifeasaprosumer - energy game and VR visualisation
- Pilot Berg en Terblijt: energy sharing in a local community of industrial building and houses + energy trading app
- Pilot Eupen: local sustainable energy community for agriculture, households, city of Eupen
- Pilot Liège: model a local energy community at the ULiège campus
- Pilot Jülich: energy monitoring at the campus

## 3 main results:



### 1. Awareness and communication about the energy monitoring & trading

Informing the general public, businesses and institutions of the possibility to share energy as a smart solution to energy poverty.



### 2. Implementations of cases and prototypes in peer 2 peer energy trading

Show, don't tell principle: by showing how easy it would be to start sharing energy. We developed a game and the prototype of an app.



### 3. White paper and business roadmap

Once you have a brilliant idea, share it. The white paper and the roadmap for prosumers are supposed to explain the feasibility of the project.

### Supporting materials for raising awareness and provision of information

1. Online Academy for Energy Sharing
2. White Paper and Road Map

# Key milestones



**Oct 2022:** Kickoff of the project



**Febr 2023:** End of development.



**May-June 2023:** Pilot events: Hasselt, Berg en Terblijt, Liège, Eupen, Jülich



**End of August '23:** Final event of the project. Distribution of white paper and business roadmap.

## CO-FINANCERS



provincie limburg



Ministerium für Wirtschaft, Innovation,  
Digitalisierung und Energie  
des Landes Nordrhein-Westfalen



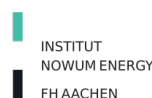
[www.blockchain4prosumers.eu](http://www.blockchain4prosumers.eu)

## PROJECT PARTNERS

### LEAD PARTNER:



### PARTNERS:



Open Universiteit

