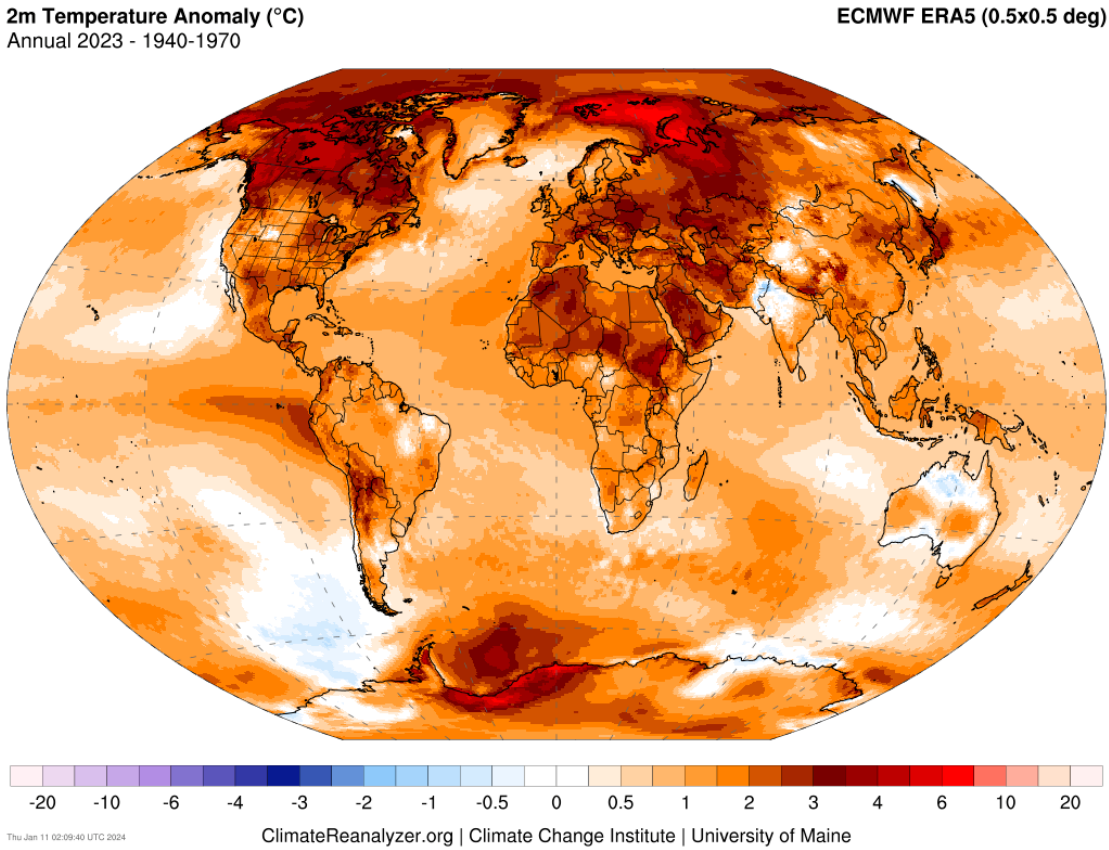
GREENNOVA FOUNDATION

2023 Annual Report



A year of consolidation

Greennova Ventures, the company owned by Greennova Foundation, was born in June 2022 in order to apply for grants related to new disruptive companies. So we presented our proposal to the Startup Capital program, from Acció. For reasons that never were explained to us, our proposal was rejected.

We also submitted a proposal to Barcelona City Council for a Climate Grant. It would have allowed us to hire a new PhD student for the GRAFECO2 project, but again it was not granted.

Finally, we made an official presentation to the Department of Climate Action from the Catalan Government, but our request for help was not attended. The Climate Fund, which is supported by the tax on CO_2 emissions from mechanical traction vehicles, has been used in 2023 to finance a €9,000,000 project to protect the Eastern Pyrenees from light pollution, changing light and improving energy efficiency.

The lack of help from the Administration has forced us to focus our efforts only on the CAPTACO2 project, which will be extended for another year. Present results are still not good enough, but it has a way to go, at least until March 2025.

Sebastia Carrión
Director

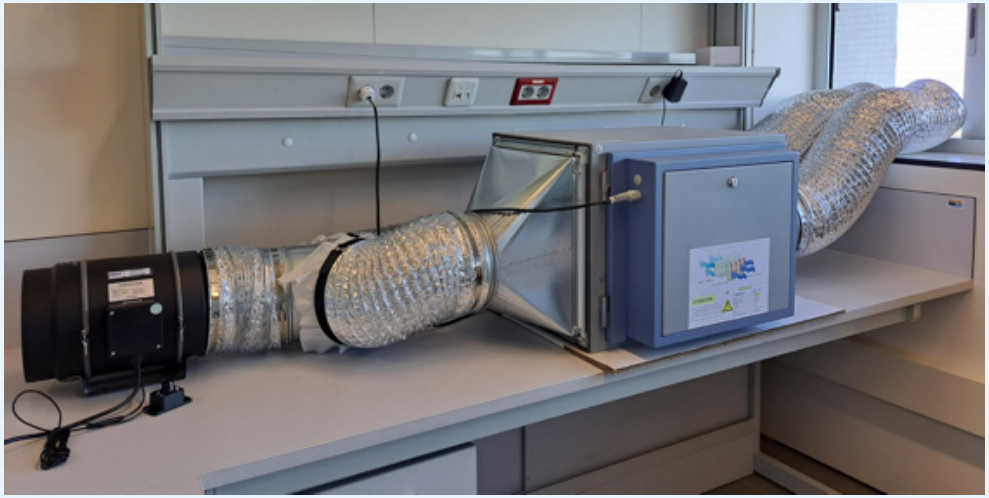
POLUSTOP Project

During 2023 the results of the POLUSTOP project, which fights against pollution and climate change through the capture of particles from the air, have been very good.

The research has been carried out using electrostatic filters, and shows that it is possible to eliminate more than 90% of urban particles using this technology.

The measurements have been performed following two methodologies, both with matching results: the first has compared the fouling level of two filters in parallel, one with the electrostatic capture system upstream, and the second by directly measuring the particles at the inlet and outlet of the electrostatic filter.

We hope that a pilot test can be done in the near future.



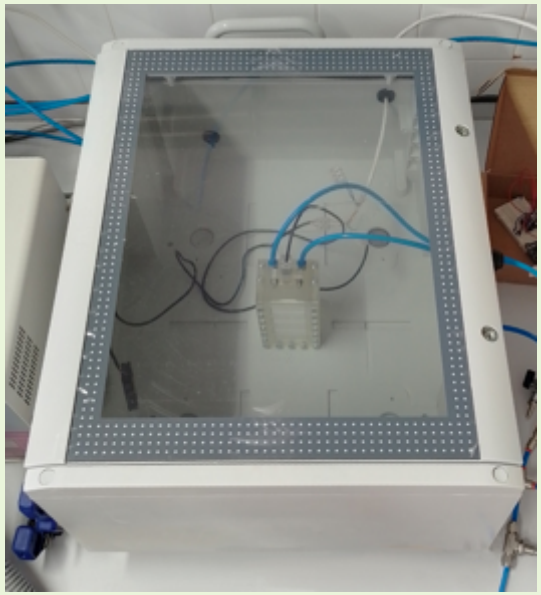
CAPTACO2 Project

CAPTACO2 project, which is developing an atmospheric CO_2 desktop capturing device, has continued with the work of Anna Mas at the University of Tarragona.

This year Anna has continued testing different types of membranes by changing the composition of the polymer, the polymerization time, the type of bath or the thickness.

She has also continued experimenting with different absorbent solutions, depending on the compound, the concentration and even the addition of the carbonic anhydrase enzyme.

Capture results are improving each day but are not high enough to be implemented into a viable commercial device. During 2024 more constructive alternatives will be explored to reach the goal of having a prototype that can capture a relevant amount of CO_2 atmospheric occupying a small space.



GRAFECO2 Project

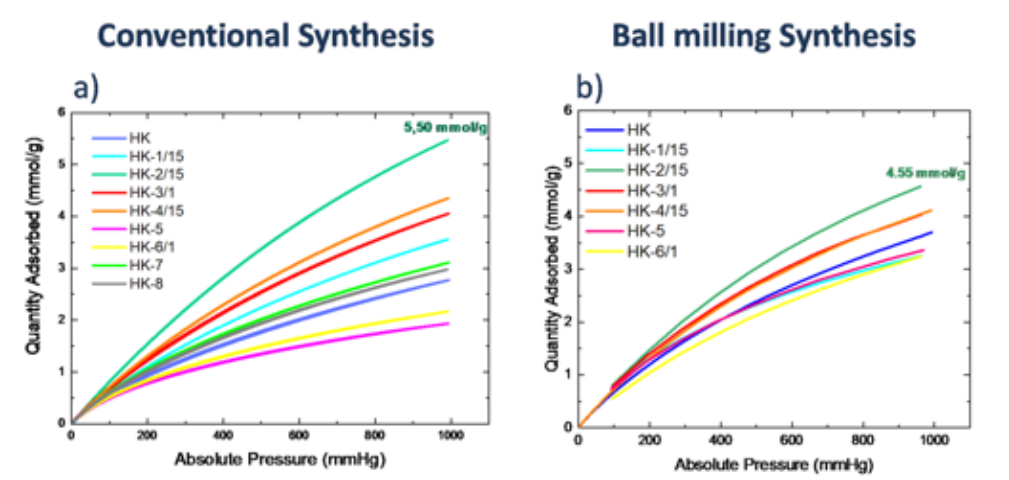
GRAFECO2 project has continued to deepen the study of MOF + graphene oxide structures for CO_2 capture, with PhD student Elizabeth Martínez working at the University of Barcelona.

Elizabeth was able to spend 3 months at the University of Birmingham, time she used to do a multitude of adsorption tests on different compounds.

The results of these tests were then presented at the Euromof congress in Granada, through a poster from which an extract is shown.

Elizabeth's industrial doctorate finished last October and in the coming months she will defend her thesis.

We hope that the knowledge generated by the GRAFECO2 project can be used in the future.

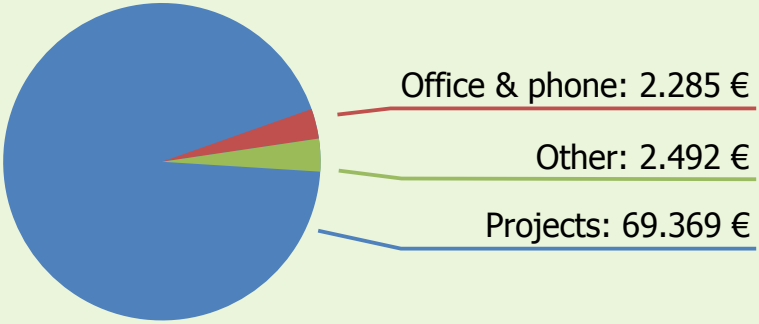


Transparent accounts

Greennova Foundation accounting inflows and outflows during 2023

Patrimony start 2023	53.920 €
Received donations	44.970 €
Expenditures	-74.146 €
Patrimony start 2024	24.744 €

Expenditures per type



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