



Press Release

European Innovators Launch GRAPHERGIA Project to Revolutionize Energy Harvesting in Textiles and Battery Technology



Patras, 6 November 2023 - A consortium of 11 partners from six European nations has officially launched the **GRAPHERGIA** project, an ambitious 3.5-year Research and Innovation endeavor, funded by **€4.5 million** within the framework of **Horizon Europe**. Aimed at **redefining the integration of energy solutions into everyday life**, GRAPHERGIA is set to **transform how we use and store energy**, marking a significant milestone in the journey towards a **climate-neutral future**.

At the heart of GRAPHERGIA lies the goal to develop and deploy **cutting-edge graphene-based materials** into energy harvesting and storage devices. These advances

will enable scalable and cost-efficient production of **two-dimensional (2D) material technologies** for a wide array of applications.

The project kicked off on 2-3 November with a commitment to **pioneering the domain of smart textiles**. "We envision a world where your clothing does more than just look good—it powers your devices, acts as a sensor, and connects you seamlessly to the Internet of Things (IoT)", says Prof. Spyros Yannopoulos, the project coordinator of GRAPHERGIA. "Imagine e-textiles that not only adapt to your body but also charge themselves. This is the future we are creating".

The second key area of exploration for the GRAPHERGIA project is the development of **next-generation electrodes for Li-ion batteries**. By leveraging the consortium partners' proprietary technologies, GRAPHERGIA aims to capitalize on the unique properties of 2D materials to enhance battery life and performance, all while maintaining an **environmentally friendly footprint**.

"As we move from current technology readiness levels to higher grounds, GRAPHERGIA stands at the forefront of materials engineering. Our collaborative effort aims to bring pilot-scale innovations to the marketplace, setting new benchmarks for the energy sector", adds Prof. Yannopoulos.

The kick-off meeting of the GRAPHERGIA project not only marks the beginning of a transformative journey but also highlights the **collective drive towards a greener, smarter, and more interconnected world**. Stay tuned as we unfold the fabric of the future—one thread of innovation at a time.

Eleven research and industry partners from six European countries

Under the leadership of the **Foundation for Research and Technology – Hellas**, GRAPHERGIA brings together an alliance of ten additional European entities from both research and industrial sectors.

The consortium includes **Pleione Energy GmbH** (Germany); **Adamant Composites Ltd.** (Greece); **Université Gustave Eiffel** (France); **Born GmbH Knitwear for Fashion and Engineering** (Germany); **Università degli Studi de Roma La Sapienza** (Italy); **Comsensus, DOO** (Slovenia); **Deutsches Zentrum für Luft - Und Raumfahrt EV** (Germany); **Next Technology Tecnotessile** (Italy); **AUSTRALO Interinnov Marketing Lab SL** (Spain); and **Euglottia I.K.E.** (Greece).

GRAPHERGIA initiative aims to lead the transformation of Europe's energy future by pioneering graphene applications in next-generation technologies for energy harvesting, conversion, and storage.



For more information on the GRAPHERGIA project and its developments, please contact:

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**Funded by
the European Union**

This project is supported by the European Union, under Horizon Europe Programme (Grant Agreement n.101120832).

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