





### presented by Prof. Vincenzo Mulone

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## Who are you, and what is your organization's area of expertise?

#### **Prof. Vincenzo Mulone**

I am Vincenzo Mulone, Professor of Energy Conversion at the University of Rome Tor Vergata and a member of the Sustainable and Clean Energy Research Group (SCERG).

At SCERG, here in Tor Vergata, we deal with sustainable energy technologies, with focus on hydrogen systems, renewable energy integration, and digital tools for the smart control and optimization of energy systems.



### What is your vision for FlexBIT?

Our vision for FlexBIT is to advance energy system flexibility by integrating hydrogen technologies and leveraging digitalization. By combining innovation with interdisciplinary collaboration, we aim to provide scalable solutions that promote efficiency, sustainability, and resilience in Europe's energy landscape.



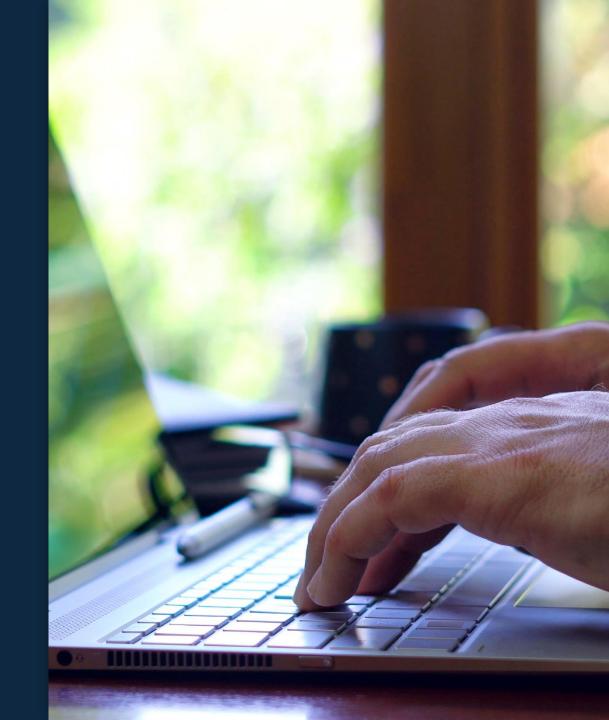
# What specific role does your organization play in FlexBIT?

In FlexBIT, our organization explores how hydrogen technologies can enhance energy system flexibility. This includes integrating hydrogen-based services within the project's platform to demonstrate their potential, enabling their widespread adoption and supporting Europe's transition to a low-carbon and efficient energy system.



## What are the key outcomes your organization hopes to achieve in FlexBIT?

Through our involvement in FlexBIT, we aim to demonstrate the viability of hydrogen technologies for flexibility services. Key outcomes include validated integration models, optimized service frameworks, and insights into digital tools that enhance deployment and management of hydrogen solutions across Europe.



# Why is FlexBIT important for Europe's energy transition?

FlexBIT is essential to Europe energy transition as it combines flexibility, digitalization, and innovative technologies such as hydrogen to address key challenges for the integration of renewable energies. The project fosters smarter energy management, enabling secure and efficient energy systems that align with European decarbonization and sustainable development goals.



This research was funded by CETPartnership, the Clean Energy Transition Partnership under the 2023 joint call for research proposals, co-funded by the European Commission (GA N°101069750) and with the funding organizations detailed on <a href="https://cetpartnership.eu/funding-agencies-and-call-modules">https://cetpartnership.eu/funding-agencies-and-call-modules</a>.





### **Co-funded by the European Union**

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