

Graphene Week Matchmaking Profiles: Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)

Prepare for our EU Funding Opportunities Matchmaking Session by exploring the statements of interest below. In this document, you will find the submitted statements of interest for the matchmaking session.

Participants without a detailed statement

The following participants submitted a blank or N/A statement. Their details are listed below.

Participant	Affiliation	Country	Participation interest
Anna Andersson	ABB	Sweden	I am curious about relevant EU funding opportunities
Ivana Cavaliere	ICFO	Spain	N/A
Atasi Chatterjee	National Metrology Institute of Germany, PTB Braunschweig	Germany	I would like to coordinate a project proposal and am looking for partners; I would like to promote my expertise and find collaborators; I am curious about relevant EU funding opportunities
Rasmiya Shirin Chemban	University of Chemistry and Technology, Prague	Czech Republic	I am curious about relevant EU funding opportunities
Claudia Delgado SIMAO	University of Antwerp	Espanha	I would like to join a project proposal as a partner; I would like to promote my expertise and find collaborators
Marlene Faria	FI Group by EPSA Portugal	Portugal	I would like to join a project proposal as a partner; I would like to coordinate a project proposal and am looking for partners
Aristotelis Folas	Q-PLAN INTERNATIONAL ADVISORS PC	Greece	I would like to join a project proposal as a partner; I would like to promote my expertise and find collaborators
Bruna Fonseca	FI Group by EPSA Portugal	Portugal	I would like to join a project proposal as a partner; I would like to coordinate a project proposal and am looking for partners
Michael Gibney	Royce Institute Catalyst Programme	United Kingdom	I am curious about relevant EU funding opportunities

Participant	Affiliation	Country	Participation interest
Kerli Liivand	Jälle Technologies	Estonia	I would like to join a project proposal as a partner; I would like to promote my expertise and find collaborators; I am curious about relevant EU funding opportunities
Thuany Maraschin	XGraphene	Brazil	I would like to join a project proposal as a partner
Neelakandan Marath Santhosh	Jožef Stefan Institute	Slovenia	I would like to join a project proposal as a partner; I am curious about relevant EU funding opportunities
Eduardo Marques	Faculty of Sciences - University of Porto	Portugal	I would like to promote my expertise and find collaborators; I am curious about relevant EU funding opportunities
Šarūnas Meškinis	Institute of Materials Science of Kaunas University of Technology	Lithuania	I would like to join a project proposal as a partner; I would like to promote my expertise and find collaborators
Sofia Oliveira	FI Group by EPSA Portugal	Portugal	I would like to join a project proposal as a partner; I would like to coordinate a project proposal and am looking for partners
Virginia Ranaweera	University of Jyväskylä	Finland	I am curious about relevant EU funding opportunities
Maite Riano Junquera	CSIC	Spain	I would like to join a project proposal as a partner; I would like to coordinate a project proposal and am looking for partners; I would like to promote my expertise to find collaborators
Manuel Santos	FCT	Portugal	I would like to join a project proposal as a partner
VIKASH SINGH	IIT ROPAR	INDIA	I would like to promote my expertise and find collaborators; I am curious about relevant EU funding opportunities
Thais Tasso Guaraldo	Coventry University	United Kingdom	I would like to coordinate a project proposal and am looking for partners; I would like to promote my expertise and find collaborators
Laura von Lüders	Company	Germany	I am curious about relevant EU funding opportunities
Tomoko Yokaichiya	Fritz-Haber-Institut der MPG, Berlin	Germany	I would like to promote my expertise and find collaborators; I am curious about relevant EU funding opportunities
Aldo J.G. Zarbin	Department of Chemistry, Federal University of Paraná (UFPR)	Brazil	I am curious about relevant EU funding opportunities

Detailed statements

1. Anna Aleksandrova, HU Berlin

Country of residence	Germany
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to coordinate a project proposal and am looking for partners

Statement of interest

Institut Kurz and research associates at Humboldt University of Berlin are developing NEG (Non-Ergodic Generator), a nanoscale element designed for chip-scale integration.

The NEG mechanism — magnetic-field-induced rectification of electron transport in curved ballistic graphene channels.

The device generates electrical power directly from the thermal motion of electrons, without fuel, sunlight, or a chemical battery.

The design target is chip-scale integration — arrays of many NEG elements packed onto a single chip.

2. Beatriz Alonso Rodríguez, Graphenea SA

Country of residence	Spain
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to join a project proposal as a partner

Statement of interest

Graphenea has extensive experience in producing high-quality graphene oxide (GO) and its derivatives. We can tailor our GO materials—adjusting parameters such as surface decoration, functionalization, oxygen content, flake size, and concentration—to meet the precise requirements of various applications and sectors. We welcome collaborations to customize materials, develop specific formulations, and assist with scale-up production.

3. Silvia Colella, PNO Digital

Country of residence	Italy
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to promote my expertise and find collaborators

Statement of interest

PNO Innovation Digital is looking to connect with companies, research organisations, technology developers and project coordinators working on European R&I opportunities. We support organisations in identifying funding opportunities, building collaborations and consortia, and turning R&D into impact and market opportunities. Our expertise includes innovation and project development, exploitation and market uptake, business and technology intelligence, stakeholder engagement, communication and dissemination. We are particularly interested in advanced materials, manufacturing, energy and climate technologies, circular economy, digitalisation and AI, both to support new initiatives and contribute as a partner to European R&I projects.

4. Pedro Costa, INL

Country of residence	Portugal
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to join a project proposal as a partner, I would like to promote my expertise to find collaborators, I am curious about relevant EU funding opportunities

Statement of interest

We are a research group based in Braga, Portugal, with considerable expertise in the characterisation of 2D and Energy Materials by Electron Microscopy. We would be interested in partnering up with consortia targeting TRL 1-5, where the analysis of physico-chemical phenomena at the micro-to-nanoscale can make a difference.

5. Paula Dias, UPORTO - FEUP - LEPABE

Country of residence	Portugal
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to join a project proposal as a partner • I am curious about relevant EU funding opportunities

Statement of interest

I coordinate the ZeroCarb project, funded by the EIC Transition programme, which is developing a catalytic methane splitting technology to produce decarbonized hydrogen and renewable graphitic carbon. I am interested in establishing collaborations to explore and develop innovative applications for these sustainable and tunable graphitic carbon materials across a range of industrial and advanced technology sectors.

6. Bruno Figueiredo, Graphenest SA

Country of residence	Portugal
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I am curious about relevant EU funding opportunities

Statement of interest

Graphene-based absorption materials

7. Daniil Karnaushenko, Research Center MAIN TU Chemnitz

Country of residence	Germany
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to join a project proposal as a partner

Statement of interest

I am interested in partnerships around flexible electronics, self-assembled microelectronics, small-scale autonomous systems, and advanced sensor platforms for environmental and bio-related applications. My project interests include compact, low-power sensing systems, integration of functional materials with microelectronic architectures, and scalable approaches for smart surfaces, biointerfaces, and distributed sensor networks. I am looking to connect with partners working on graphene-enabled sensors, flexible devices, printed/self-assembled electronics, and autonomous microsystems.

8. Adam Kelly, Universidade NOVA de Lisboa

Country of residence	Portugal
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to join a project proposal as a partner • I would like to promote my expertise and find collaborators

Statement of interest

PI at CENIMAT specializing in solution-processed nanomaterials (LPE/ECE) for high-performance electronics. My core expertise lies in optimising network electrical/structural behaviors to engineer thin films. Additionally, I created a methodology for identifying strategic advanced materials. Seeking to join active consortia or launch new projects.

9. Sree Raj Koottumvathukkal Anil Raj, University of Chemistry and Technology Prague

Country of residence	Czech Republic
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to join a project proposal as a partner • I am curious about relevant EU funding opportunities

Statement of interest

I am interested in solid electrolyte interphase modification of lithium metal batteries with modifications on the current collector and the separator using new materials. Currently I am working in the modification of current collectors using MXene for liquid lithium metal batteries. I would like to expand the research to both on current collectors and separators. As a next step I would like collaborate with partners with similar mind to explore these ideas into solid state lithium metal batteries.

10. Eva Kovacevic, GREMI CNRS&University of Orleans

Country of residence	France
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to join a project proposal as a partner • I would like to coordinate a project proposal and am looking for partners • I would like to promote my expertise and find collaborators • I am curious about relevant EU funding opportunities

Statement of interest

Our expertise is SSdB, our processes are low temperature, low power hybrid plasmas, which can be connected with energy consuming processes, as gas conversion towards CRMs.

We offer to partners transportable material and process diagnostics, our know how in mesoporous and vertical structures, 2D/3D stacked architectures, MoS₂, Graphene, polymers, their functionalisation and doping, functionalized surfaces with switchable wettability. We worked on supercapacitors, biosensors, CO₂, CH₄ conversion towards materials, C₂H₂ conversion and production, and many other fields including adhesive interfaces for dual use and extreme conditions. We offer design, clean room intensive activity and PI- (plasma enhanced) durability testing of AM, walls/chambers/ facilities cleaning and conditioning

11. Jitender Kumar, TACC Limited

Country of residence	INDIA
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to join a project proposal as a partner • I would like to coordinate a project proposal and am looking for partners • I would like to promote my expertise and find collaborators • I am curious about relevant EU funding opportunities

Statement of interest

Role of Graphene derivatives in industrial application. TO explore possibilities of utilizing graphene based materials for specialized applications such as defense, quantum computing and robotics.

12. Sean Mallia, University of Malta

Country of residence	Malta
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to promote my expertise and find collaborators • I am curious about relevant EU funding opportunities

Statement of interest

I am an MSc. Student and Researcher at the University of Malta, with expertise in the synthesis, analysis, and future application of reduced graphene oxide (rGO) aerogels. This novel material possesses unique properties that would make it useful in the fields of filtration & decontamination, energy storage, climactic & gas sensors, and medicine. Unfortunately, the synthesis parameters that affect the final properties of these aerogels are poorly understood, and so their synthesis has been largely limited to laboratory-scale production.

I wish to bring my expertise and practical understanding of synthesising these aerogels to a potential use case that can take advantage of rGO aerogels' unique properties.

13. Maria Martins, Citeve

Country of residence	Portugal
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to join a project proposal as a partner, I would like to coordinate a project proposal and am looking for partners, I would like to promote my expertise to find collaborators, I am curious about relevant EU funding opportunities

Statement of interest

With nearly 20 years of experience in Defence innovation, CITEVE develops advanced smart textile and e-textile solutions that integrate cutting-edge materials, including graphene and 2D materials to enhance protection, sensing, communication, and energy functionalities. Through close collaboration with the Portuguese Ministry of Defence, the European Defence Agency (EDA), the European Defence Fund (EDF), and NATO, CITEVE contributes to the development of next-generation textile-based technologies that strengthen operational capabilities, improve soldier performance, and support the digital transformation of Defence systems.

14. Roshen Mathura, GraphenePioneer BV

Country of residence	Netherlands
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to join a project proposal as a partner • I am curious about relevant EU funding opportunities

Statement of interest

The usage of Graphene materials in the building and construction sector. Looking for partners willing to collaborate in EU and SADC region.

Company: GraphenePioneer BV

CEO: Roshen Mathura

Email: roshen.mathura@graphenepioneer.com

15. Mina Namvari, Sabanci University SUNUM

Country of residence	Türkiye
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to join a project proposal as a partner, I would like to promote my expertise to find collaborators

Statement of interest

My name is Mina Namvari and I am a principal investigator at Sabanci University SUNUM. My group focuses on developing multifunctional 2D materials-based composites for biomedical & energy applications. As a material scientist, I can contribute in material design and synthesis for the target application that can vary from energy storage to biomedical applications. I am looking for partners with complementary expertise who can use these materials in applied fields like batteries (electrode materials), catalysts, sensors, tissue engineering, etc. Partners who specialize in the application of ML in material development and properties prediction as well as LCA are very much sought for. I am looking for contributing as a partner in ERC Synergy, EU4Health, COST Actions, etc.

16. Marco Pelin, University of Trieste

Country of residence	Italy
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to promote my expertise and find collaborators • I am curious about relevant EU funding opportunities

Statement of interest

The research group of Prof. Marco Pelin (University of Trieste) has a long-lasting expertise in nanotoxicology with a strong focus on the bio-interaction between 2D nanomaterials and biological systems, in particular at the skin and pulmonary levels. To this aim, our work investigates molecular, cellular and tissue responses to nanomaterials exposure, with particular attention to oxidative stress, inflammation, and barrier integrity in advanced in vitro models, including 3D human-relevant systems. Safety assessment is completed by the adoption of selected test guidelines given by standardization agencies (i.e. OECD), to collect robust and reliable toxicological data about the most feasible adverse outcomes (i.e. irritation or sensitization), also suitable for regulatory purposes.

17. Pablo Pou Álvarez, Universidade de Vigo

Country of residence	Spain
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to promote my expertise and find collaborators • I am curious about relevant EU funding opportunities

Statement of interest

Graphene-based devices for energy harvesting.

Photocatalysis applications: Hydrogen generation from water splitting and water decontamination.

18. Apurba Ray, Institute for Frontier Materials on Earth and in Space (FM), German Aerospace Center (DLR e.V.), 51147 Cologne

Country of residence	Germany
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to join a project proposal as a partner • I would like to promote my expertise and find collaborators • I am curious about relevant EU funding opportunities

Statement of interest

Hello everyone!

Our research team is currently focusing on electrochemical energy storage (mainly supercapacitors and batteries) and gas sensors. I am highly interested in meeting new researchers, exchanging novel ideas, and exploring opportunities for future collaborations and joint project applications. If you are working in these fields or have ideas to share, please feel free to reach out. Let's connect and see you at the conference!

Best regards,
Apurba Ray

19. Sascha Sadewasser, INL - International Iberian Nanotechnology Laboratory

Country of residence	Portugal
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to join a project proposal as a partner, I would like to promote my expertise to find collaborators

Statement of interest

We can grow wafer scale (2 inch) 2D materials for optoelectronic applications, such as GaSe, InSe, In₂Se₃ and the 2D topological insulator Bi₂Se₃. The materials can be processed in cleanroom environment to device structures.

20. Gilda Santos, CITEVE - Technological Centre for the Textile and Clothing Industries of Portugal

Country of residence	Portugal
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to join a project proposal as a partner • I would like to coordinate a project proposal and am looking for partners • I would like to promote my expertise to find collaborators • I am curious about relevant EU funding opportunities

Statement of interest

With nearly 20 years of experience in Defence innovation, CITEVE develops advanced smart textile and e-textile solutions that integrate cutting-edge materials, including graphene and 2D materials to enhance protection, sensing, communication, and energy functionalities. Through close collaboration with the Portuguese Ministry of Defence, the European Defence Agency (EDA), the European Defence Fund (EDF), and NATO, CITEVE contributes to the development of next-generation textile-based technologies that strengthen operational capabilities, improve soldier performance, and support the digital transformation of Defence systems.

21. Abhay Shivayogimath, 2D ApS

Country of residence	Denmark
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to join a project proposal as a partner • I would like to promote my expertise and find collaborators • I am curious about relevant EU funding opportunities

Statement of interest

2D is commercializing roll-to-roll and large-area production and integration of CVD graphene. Our process enables sustainable, CRM-free, scalable integration of graphene across electronics, biosensing, membranes, next-gen PV, and composites. We are interested in joining consortia where we provide expertise in CVD graphene and/or integration/development of end-applications. Examples: lower-LCA alternatives to conductive, passivating and barrier materials (PV, SSbD packaging); transparent/ultrathin electrodes and barrier coatings; and novel composites for thermal management/EMI shielding. Our films also suit large-area photonic-chip and MEMS applications. We're open to discussing collaborative proposals, joining proposals as a partner, and have some project ideas looking for partners.

2D is a spin-out of the EU Graphene Flagship and the Technical University of Denmark, commercializing roll-to-roll transfer and applications of CVD graphene films. Our technology and processes enable sustainable, low-cost, and scalable integration of graphene across a range of applications, including electronics, biosensing, membranes, renewable energy, and composites. We are interested in joining consortia where we can provide expertise in CVD graphene: novel composites (EMI shielding, thermal management, mechanical enhancement), membranes (filtration, CO₂ separation, electrolysis/fuel cells), transparent/ultrathin electrodes, or ultrathin barrier coatings. We are also open to playing the role of an EU-based commercial partner for CVD graphene in large-area applications. Examples: lower-LCA alternatives to conductive, passivating and barrier materials (PV, SSbD packaging); transparent/ultrathin electrodes and barrier coatings; and novel composites for thermal management/EMI shielding. Our films also suit large-area photonic-chip and MEMS applications. We're open to discussing collaborative proposals, joining proposals as a partner, and have some project ideas looking for partners.

22. Bernardo Soares, FEUP

Country of residence	Portugal
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I am curious about relevant EU funding opportunities

Statement of interest

As a member of a research group (LEPABE) engaged in European Projects (firstly 112CO₂, concluded and currently ZeroCarb, ongoing), focused on researching the fundamentals and scaling-up the catalytic methane splitting technology (CMS) I believe it would be interesting to attend this session.

23. Jinhua Sun, Chalmers University of Technology

Country of residence	Sweden
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to join a project proposal as a partner

Statement of interest

Graphene, MXene
Surface functionalization
self-assembling structure
battery
structural supercapacitor
battery manufacturing
conductive additives

24. Joana S. Teixeira, REQUIMTE/LAQV - Department of Chemistry and Biochemistry, Faculty of Sciences - University of Porto

Country of residence	Portugal
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to join a project proposal as a partner • I am curious about relevant EU funding opportunities

Statement of interest

Early-stage researcher developing carbon quantum dots for solar light harvesting in flexible supercapacitors. Strong expertise in carbon-based and semi-conductive quantum dots, graphene, CNTs, and their functionalization and hybridization, as well as sustainable synthesis of transition metal oxides, sulfides, and LDHs. Additional background in photo- and thermochromic materials, smart textiles, polymer electrolytes, and thermoionic measurements.

26. Stefania Vitale, European Science Foundation

Country of residence	France
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to join a project proposal as a partner • I would like to coordinate a project proposal and am looking for partners • I would like to promote my expertise and find collaborators

Statement of interest

ESF (European Science Foundation) is a non-profit organisation committed to advancing high-quality research across Europe and beyond, offering expert, independent management and support throughout the full research lifecycle (from design and implementation to evaluation, sustainability and impact). Leveraging on over 10 years of participation in the Graphene Flagship, we enable European and international collaborations in the field of 2D materials. Our Material Science team provides extensive project management experience, stakeholder engagement and science-informed communication and dissemination expertise, and access to a broad global stakeholder network. The team also leverages ESF's expertise in transversal topics such as open science, research ethics, citizen science, AI for science, maximizing project impact and increasing chances for uptake.

26. Ioana Carmen Vladu, RHP-Technology GmbH

Country of residence	Austria
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	• I would like to join a project proposal as a partner • I would like to promote my expertise and find collaborators • I am curious about relevant EU funding opportunities

Statement of interest

RHP is actively engaged in a range of projects focused on the development and upscaling of advanced graphene- and MXene-based composite materials for metallic and polymeric matrices, using powder metallurgy and plasma powder deposition technologies. We are keen to contribute as an active partner in EU-funded collaborative projects.

27. Ahmed Elmarakbi, Northumbria University

Country of residence	United Kingdom
Topics / calls of interest	• Energy systems and climate transition technologies (Cluster 5, Clean Energy Transition Partnership)
Participation interest	I would like to coordinate a project proposal and am looking for partners

Statement of interest

Consortia are currently being formed for the following calls:

- HORIZON-CL5-2027-02-D2-05: Improvement of Adaptability, Flexibility and Efficiency of Existing Recycling Processes (BATT4EU Partnership)

- HORIZON-CL5-2027-02-D2-06: Sustainable and Competitive Cell Production Techniques for Lithium-ion And Sodium-ion Batteries (BATT4EU Partnership)
- HORIZON-CL5-2027-04-Two-Stage-D2-07: Novel approaches towards next-generation battery concepts, leveraging the enabling role of innovative advanced materials (BATT4EU and IAM4EU Partnerships)

Reach out to ahmed.elmarakbi@outlook.com if your expertise is in-line with the objectives of the calls listed.