CALL/TOPIC -Horizon / EUREKA Projects



Pronosed Approach & Experience	Partners
PCM Broducts Ltd is a LIK based company actively involved in many aspects of the	
FCW FTOULUS LIU IS a OK based company actively involved in many aspects of the	Manuald like to most anyong involved in any of the shous
HVAC&R industry. we are committed to providing alternatives and improvements to	we would like to meet anyone involved in any of the above
current built environment, commercial and industrial HVAC&R technologies by offering	applications & technologies. Our activities are involved in both
more energy efficient and environmentally acceptable solutions. Among our areas of	the installation of our products and would love to be a partner
expertise are:	for any academic institution, consultant / contractor involved
 Thermal Energy Storage (PCM and ice-based applications) 	in HVAC & R technologies planning to apply any of the Horizon
Solar heating & cooling applications	funding and looking for a SME partner.
Temperature controlled Transport / Logistic	For the last three decades we have taken part more than
Cold storage	dozen PF7 / Horizon funded R&D projects and we have three
Food & Beverage Chilling	Horizon project at present and fully familiar with the Horizon
Process Cooling / Heating	funding system.
Commercial & Industrial Refrigeration	
Air Conditioning	
Design and Application Consultancy	
Organisational Capabilities	Administrative Information
For more than three decades we have been involved in the development of Phase	
Change Materials (PCMs). With unrivalled experience in designing and advising on PCM	PCM Products Ltd.
installations and applications, we continue to push the boundaries in PCM usage for the	www.pcmproducts.net
henefit of our ever-growing customer base	
From initial concept, research and development to production and distribution. our	Contact : Zafer URE
office and manufacturing facility in the UK and our Licensed outlets around the world	z.ure@pcmproducts.net
offer bespoke products to meet unique customer requirements	Tel:+44-(0)1733243400
oner bespoke products to meet anique castomer requirements.	
	PIC 985884333

reactions.

up a general-purpose flow

reactor for catalyst production

and a catalyst testing rig useful for a wide range of gas phase



Lancaster 🌌

University

 Proposed Approach & Experience Goal: innovating bimetallic nanocatalysts composed of earth-abundant elements, leveraging Sabatier principle to achieve low-temperature efficiency comparable to current Ru-based catalysts. Synthesis approach: sol immobilisation in flow using triphasic milli-fluidic reactors. How: accelerated discovery using model-based design of experiments and machine learning. Expertise in computer-aided materials & process engineering, spanning molecular to macroscopia scales, and embracing both data-driven and 	 Partners and potential opportunities Looking for both academic and industrial partners with interest in one or more aspect of the proposed project. Open to other relevant collaboration opportunities aligned with our expertise. Project scope—green economic catalysts for energy applications—can readily be extended to systems that share similar challenges, such as Fischer-Tropsch synthesis and CO2 conversion, among others. Sol immobilisation in triphasic milli-fluidic flow reactors is generally applicable to heterogeneous catalyst syntheses, offering closely-controlled, large-scale, and reproducible production.
 and industrial experience. Organisational Capabilities Our group (Laboratory of Intelligent Materials & Process Engineering) possess a dedicated in-house high-performance computing server, useful for both molecular simulation and machine learning applications We are seeking funding to set 	 Somption allocit data yet design and optimisation tools are broadly applicable to practically any material discovery problem. Administrative Information We are an academic research team part of the Chemical Engineering group at the School of Engineering. Depending on the specific project and target scheme, we are open to being either the coordinator or a partner.

Contact details:

Dr Reza Andalibi | Lecturer in Chemical Engineering Email: r.andalibi@lancaster.ac.uk Phone: +44 (0)73 0554 1866 Lancaster University, United Kingdom (PIC 898688705)

SWIFT: Skills for Wind Innovation and Future Technologies

Proposed Approach & Experience

goal of achieving net-zero emissions by 2050.

What is your understanding of the part of the problem/challenge you can solve? What previous, relevant, work or track record can you bring to the team?

SWIFT will address critical skill gaps in the wind energy sector by targeting emerging technologies in the

impactful training ecosystem by partnering with universities, research institutions, industry players, and

manufacturing of offshore wind components and fostering innovation through collaboration with research

institutions, industry leaders, and SMEs. The program aims to build a sustainable workforce equipped with

future-oriented skills in digitalisation, automation and advanced manufacturing. SWIFT will create a holistic and

vocational training providers across Europe. The program is aligned with the EU Green Deal, contributing to the



Partners

If you are looking for partners, what type of partners are you looking for?

- Industry partners including SMEs
- Research organisations
- Vocational training and skills delivery bodies

I have a crucial role within the Scottish Offshore Wind Energy Council (SOWEC) new Education and Skills Group. I am also co-leading the wind skills programme for the High Value Manufacturing Catapult (HVMC) in the UK, driving forward innovation in this critical sector.

Organisational Capabilities

What skills, capabilities, facilities does your organisation have that will be vital for this project?

The Manufacturing Skills Academy (MSA) of the National Manufacturing Institute Scotland (NMIS) is dedicated to transforming the workforce of today and tomorrow by supporting employers in addressing skills gaps and developing innovative approaches that enhance existing provisions across Scottish organisations. We offer advanced manufacturing awareness, training, and development opportunities for individuals at all levels, while also anticipating future skills needs, providing access to necessary equipment and training, and the Pre-Approved Talent Scheme (PATS). We encourage careers in manufacturing by showcasing a clean, high-tech industry that is accessible to everyone. We have features state-of-the-art learning environments, a comprehensive portfolio of training programs (Over 1900 people upskilled and reskilled through online and inperson, theoretical and practical training), a well-established Doctoral Centre that has funded over 140 PhDs, Knowledge Transfer Partnership (KTP) support, and paid internships. Over 80 graduate trainees have been offered placements in Scottish manufacturing organisations. 17 internships were offered last year with around 30% female and 6 in industry. This year 38 internships took place with 9 supported by industry.

Administrative Information

Is your organisation academic, SME, big business, etc.: **Research and Technology Organisation (RTO)** Are you planning on being the Coordinator or a Partner? **Both** Your contact details including: Name, email and phone number: **Dr Abdul Ahmad**,

abdul.o.ahmad@strath.ac.uk, 07825658856

What country are you from: **UK**

Participant Identification Code (PIC): 883187814

CSE pitch to Horizon Europe energy collaborative R&D funding opportunities webinar CL5-2024-D4-02-05 Digital Solutions and CL5-2024-D3-02-10 Market Uptake Measures of Renewables

Proposed Approach

- **CSE's work** tackling the dual challenges of cutting carbon emissions and helping those struggling with their energy needs.
- Flexible, transparent and cross-disciplinary approach supporting national and local net zero planning and delivery in the context of a just energy transition.
- Integrated approach across demand reduction, heat and power decarbonisation, community engagement, consumer advice and policy development support to achieve optimum outcomes.

Experience

- Experience of coordinator and partner roles in FP7/EU Horizon 2020 projects.
- Extensive track record during CSE's 45-year history of working with public and private sector orgs supported by diverse funding sources.
- Large portfolio of impactful projects around the uptake of renewables, tackling fuel poverty and exploring local impacts and public perception of heat decarbonisation measures.

Example projects

(visit <u>www.cse.org.uk</u>):

Energy modelling and tools

- Solar Wizard
- THERMOS
- Impact (Community Carbon Footprint)
- Heat network zoning model

Community energy and local leadership

- Future Energy Landscapes
- Next Generation Community Energy
- Community-led Retrofit
- Aurora

Smart energy system, flexibility and energy justice

- Smart and Fair
- Energy Choices Tool
- Crowd Flex
- Demand Flexibility evaluation

Partners

We are looking to partner with organisations seeking innovative solutions to the climate emergency through collaboration and ambitious-thinking.

CSE particularly interested in the following calls from the topics being discussed at today's webinar:

- HORIZON-CL5-2024-D4-02-05 Digital solutions to foster participative design, planning and management of buildings, neighbourhoods and urban districts (Built4People Partnership)
- HORIZON-CL5-2024-D3-02-10 Market Uptake Measures of renewable energy systems.

Organisational Capabilities

- Complementary skills around technical analysis, software & modelling, research methods and community engagement techniques.
- Sophisticated building heat decarbonisation modelling capabilities including heat network planning and renewable energy resource assessment.
- Robust data analysis, GIS mapping and tool development skills.
- Deep understanding of low carbon housing retrofit using a people-centred approach
- CSE is an Independent Research Organisation (IRO) with highly developed social research and evaluation skills.

Administrative Information

Jennifer Mitchell Senior Development Manager jennifer.mitchell@cse.org.uk

Centre for Sustainable Energy <u>www.cse.org.uk</u> CSE is a not-for-profit SME based in Bristol, UK PIC: 999790641



Development of smart concepts of integrated energy driven bio-refineries for co-production of advanced biofuels, bio-chemicals and biomaterials HORIZON-CL5-2024-D3-02-03 All Energy Topics

Proposed Approach & Experience What is your understanding of the part of the problem/challenge you can solve? What previous, relevant, work or track record can you bring to the team?	Partners If you are looking for partners, what type of partners are you looking for?
Experience team of chemists, chemical engineers, biologists, biochemists and business developers who have taken numerous biorefinery, bioenergy and bio-based products from lab scale to larger scale. We have previously participated in 4 Eu projects including being work package leader - two projects involved transfer to kilo scale and transfer to continuous processing. Our team have designed, built and operated bespoke pilot plant equipment for thermochemical processing and used existing plant for chemical and bioprocessing (enzyme processing and fermentation). Associated downstream purification has been developed and trialled at multi kilo scale. Experience of developing bespoke demonstrator (1 T) plant as part of IUK funded work on protein isolation.	Any projects looking to include bioeconomy or circular economy scale up work including chemical and biological processing plus associated downstream processing.
Organisational Capabilities What skills, capabilities, facilities does your organisation have that will be vital for this project?	Administrative Information Is your organisation academic, SME, big business, etc. RTO Are you planning on being the Coordinator or a Partner? Partner
Pragmatic approach to scale up and problem solving. £10m pilot plant with highly experienced team of technologists to develop, transfer and operate through pilot phase. Experience with wide range of biomass feedstocks including straws, woods and biowaste from EU and non-EU sources plus seaweed and non-biological waste such as hard plastic.	Your contact details including: Mark Gronnow, mark.gronnow@york.ac.uk +44 (0)7508016358 What country are you from United Kingdom Participant Identification Code (PIC) : 951852174

Biorenewables Development Centre Plants • Processes • Products

Offshore Wind – Kinewell Energy





E-Flywheel SDI XBattery Design, R&D, and Protototyping (FESS)



Proposed Approach & Experience

1. I myself, as an Inventor-researcher and as a founder of the AREEETS, the probleme challenge and expertise acquired, have to bring on the table, an already solved the stress calculations Two-Boundaries Value Problems and design, mathematical modelling and simiulation of the High-Speed, up to 100,000 rpm, of a rotating new flywheel energy storage DEVICE with multiple shapes factors, having the flat rim, called by myself as an E-Flywheel, meaning, Exponential Electrical Energy Compact High-Speed Disk Flywheel using Maple, Matlab and Ansys software.

2. Previous work is to bring to the team is to assemble, the E-Flywheel Device, Power electronics devices, PVs, other and create the an Electro-Mechanical Battery prototype using permananent passive magnet motor and a free-energy Magnets for a non-need of solar PVS source to empower the newbattery, but also applying AI, IoT and Wireless, to obtain AN ELECTRO-MAGNET MECHANICAL BATTERY, COMPACT & DIGITAL, WITH INTELLIGENT & SMART SYSTEM, (In Brief SDI XBATTERY) and Testing.

(What previous, relevant, work or track record can you bring to the team?)

Organisational Capabilities

1. From myself, I have all the skills needed, as an Inventor, but also an Idea when at the right time, to make the whole R&D, from devices to different types of batteries, made out of different shape factors of each device, up to different Batteries applications that are to be adapted to different Market-Segment, and AI and IoT applications. but need other professionals and expert to assist to build the physical product and applying AI, IoT and Wireless Communications to obtain a Battery-to-X Infrastructures and Apps, (B2X) SDI X Compact Battery products.

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Partners

PARTNERSHIPS NEEDED INDEED FOR A WORLD-QUALITY OF A
NEW & INNOVATIVE BATTERY

 University that teaches, or Understand or that have an Advanced Lab with the FESS, meaning, The Flywheel Energy Sorage Systems, and can build along with the AREEETS advising an Advanced Lab for High-Speed Flywheel Energy Storage devices and batteries, since other expertise will be needed, like on new bearings to adopt, and other ultracapacitors, Superconducting Magnets ES, Catapult able to understand the concept and build a new Lab adapted to this type of manufacturing works//
3. Funding as well, the R&D and Products development support
(If you are looking for partners, what type of partners are you
looking for?)
Administrative Information
AREEETS MULTI-TECH GROUP UK LTD is a Startup, pre-revenue
SME, and I will play the role of the CORDINATOR OF THE PROJECT CONTACT DETAILS:
By Michel Nlandu Mbumba (Inventor with an IP from UCT), +27682661434, <u>Nlandummb2@gmail.com</u> ,
Citizen of DRCongo, Live in SOUTH AFRICA
ORGANIZATION's Participant Identification Code (PIC)-879522087

Navigating Eco-Social Vulnerabilities Through Participatory Design: Uncovering Knowledge and Practical Gaps

Proposed Approach & Experience

What is your understanding of the part of the problem/challenge you can solve? What previous, relevant, work or track record can you bring to the team?

Problems we will resolve

- How to actively engage eco-socially vulnerable communities in sustainable transition?
- Can we leverage digital solutions to improve participatory design process?
- How to reduce energy and mobility poverty?

Our strengths are

- Preliminary project outputs with a stakeholder engagement workshop in the UK
- Established networks with collaborators in the Netherlands and Norway
- Team members with a good track record in sustainable cities, green buildings, participatory design, public engagement, etc.

Organisational Capabilities

What skills, capabilities, facilities does your organisation have that will be vital for this project?

- Collaboration networks with internal and external stakeholders
- Talent pool
- Great support on research, innovation, and intellectual property
- Access to worldwide research databases
- Access to information exchange platforms and communication tools/software



Partners

If you are looking for partners, what type of partners are you looking for?

We are looking for the following partners in Europe (including associated countries) to join us with an experience working in the areas of sustainable deep renovate, green buildings/neighbourhood, sustainable cities, participatory design, public engagement, co-creation/co-design, digital solutions for sustainability.

- Industry stakeholders (developers, contractors, technology suppliers, consultants, engineers, planners, architecture, surveyors, etc.)
- Local councils/Municipalities/Public organisations
- Academic or research institutions

Administrative Information

Is your organisation academic, SME, big business, etc. Are you planning on being the Coordinator or a Partner? Academic institutions (Coordinator)

Your contact details including: Dr. Cheng Siew Goh, cheng.s.goh@northumbria.ac.uk Northumbria University, United Kingdom Your organisation's <u>Participant Identification Code (PIC)</u> if your organisation has one

Navigating Eco-Social Vulnerabilities Through Participatory Design: Northumbria Uncovering Knowledge and Practical Gaps		
Proposed Approach & Experience What is your understanding of the part of the problem/challenge you can solve? What previous, relevant, work or track record can you bring to the team?	Partners If you are looking for partners, what type of partners are you looking for?	
 How to engage eco-socially vulnerable communities in sustainable transition? Can we leverage digital solutions to improve participatory design process? How to reduce energy and mobility poverty? 	 Looking for the following who work in the areas of sustainable deep renovate, green buildings/neighbourhood, sustainable cities, participatory design, public engagement, co-creation/co-design, digital solutions for sustainability. Industry stakeholders (developers, contractors, technology suppliers, consultants, engineers, planners, architecture, surveyors, etc.) Local councils and municipalities NGO 	
Organisational Capabilities What skills, capabilities, facilities does your organisation have that will be vital for this project?	Administrative Information Is your organisation academic, SME, big business, etc. Are you planning on being the Coordinator or a Partner?	
 Experienced team working in participatory design, sustainable cities and digital solutions Established networks in Netherlands and Norway 	Your contact details including: cheng.s.goh@northumbria.ac.uk Cheng Siew Goh, cheng.s.goh@northumbria.ac.uk United Kingdom Your organisation's <u>Participant Identification Code (PIC</u>) if your organisation has one	

Convert waste into SAF

From 2025, ReFuelEU Aviation mandates 2% synthetic aviation fuel (SAF) blending rising to 50% by 2050



[H₂R] Hydrogen Refinery

Partners

If you are looking for partners, what type of partners are you looking for?

- Waste
- Aviation fuel

Also operate in :

Marine sector Fertiliser/Ammonia sector

Administrative Information: SME

Stephen Voller CEO Hydrogen Refinery Ltd 20-22 Wenlock Road, London N1 7GU, UK Stephen.voller@h2refinery.co.uk

+44 780 122 6160

PIC: 8855598458

NEXUS for Energy resilience in rural bioregions

Duncan Brown Futurist at <u>Hitachi Europe R+D</u> Trustee at <u>TCN</u> Core member of <u>ODEC</u>





- **Nova Innovation Shetland Tidal Array** HORIZON-CL5-2024-D3-02-04: Critical Technologies for the Future Ocean Energy Farms Project Opportunity
- Deliver sector leading marine energy projects at the world's first offshore tidal array:
 - > Operational tidal array, fully consented, highly reliable, grid-connected (with available capacity).
 - > 10+ years of environmental, operational and marine data.
 - > Site features microgrid, including energy storage and EV charger.

Organisational Capabilities

• Expertise in:

- Marine energy technology development, deployment and operation.
- Data management and optimisation.
- > Environmental monitoring.
- Device instrumentation and condition monitoring.
- Global asset management.

Partners

- Successful partnerships with:
 - > Blue Chip industrials.
 - Leading European academic institutions.
 - > Sector leading SMEs.

Administrative Information

- Nova is a global leader in marine energy looking to partner with academic and industrial partners.
- Contact:
 - > Seumas MacKenzie
 - +44 131 241 2000
 - seumas.mackenzie@novainnovation.com
 - PICs: 895593823 (IE) 938084770 (UK)



hove

Industrialisation of sustainable and circular deep renovation workflows (Built4People Partnership)

Proposed Approach & Experience

What is your understanding of the part of the problem/challenge you can solve? What previous, relevant, work or track record can you bring to the team?

Solskin is a next-generation all-in-one smart facade solution, elegantly combining dynamic PV energy generation and smart shading, optimizing comfort and energy, hence, combining sustainability with elegant aesthetics and differentiating itself from competing solutions as it presents a holistic approach to climate resilient and sustainable architecture.

Solskin is able to save up to 80% of the energy (cooling heating and artificial lighting) of the room behind the installation.

Partners

If you are looking for partners, what type of partners are you looking for?

- Construction Companies
- Architecture Firms
- Planning Firms

Organisational Capabilities

What skills, capabilities, facilities does your organisation have that will be vital for this project?

With the Solskin Design Suite software at the centre of our envisioned business model, we provide planners with the tool to find an optimal Solskin design for their project and connect them with certified regional installation partners, acting as distributors for the on-site installation of our prefabricated units to the end-customer site. Ease of integration for installers and planners due to pre-fabrication of the highly modular units, fast installation, lightweight construction, and support by ZSR team or digital planning tools. Administrative Information Startup Partner Matt Taylor <u>m.taylor@zsr.swiss</u> +447516597531 Switzerland





Climate, Energy and Mobility – CL5

Proposed Approach & Experience

Industries across the spectrum need to optimise system performance and resource efficiency throughout the entire lifecycle, from design to decommissioning. We aim to optimise cyber-physical systems and digital twins, utilising simulation-based optimisation for energy reduction in various sectors. Our approach involves utilising these models to improve energy efficiency, enhance system performance, and integrate advanced technologies in smart systems.

- Sustainable design and operation
- Cyber-Physical system optimisation
- Data-Driven Performance
- Optimal, adaptable and reversible system design for energy efficiency and sustainability.

Previous impactful projects:

- THERCOM: Intuitive thermal comfort controller to optimise domestic energy use (www.thercom.net)
- SafeXtend: AI-Powered VR Construction Training Environment and Platform (www.safextend.co.uk)
- SafeSite: AI-Based Health and Safety Training in Offshore Construction
- QresLoadSIM: Quantum-based simulation and optimisation platform

Organisational Capabilities

- Team of professionals with PhDs and extensive experience in relevant fields.
- Previous exp led and completed numerous funded projects (Innovate UK, Horizon 2020, British Council and more)
- Established connections within the energy and technology sectors.
- Access to demo sites In the UK and Europe.



Energy | Digital Twin | Simulation | Extended Reality | BIM | Aerial Survey | Artificial Intelligence | Internet of Things



Partners

We are looking for:

- **Universities and Research Labs** with expertise in optimisation, energy efficiency, and sustainability.
- **Research and Technology Organisations (RTOs)** committed to advancing energy efficiency and sustainability. We are looking for partners who can provide insights, resources, and technical expertise to enhance our research initiatives.
- **Companies** in the energy, technology, and environmental sectors to engage in collaborative research efforts and project coordination.

Administrative Information

V-LAB is a SME based out of Redcar in the England.

We are planning to be a Partner.

Dr Vishak Dudhee, vishak@v-lab.uk, +447554389378

United Kingdom | www.v-lab.co.uk

Participant Identification Code (PIC): 888451810

Spray-cast perovskite solar cells

Proposed Approach & Experience

We have a longstanding experience in the development of perovkite solar cells. One particular area is the deposition of materials and devices by spray-coating. (a) We are also working on the deposition of perovskite solar cells onto carbon fibre. Our vision is to create structural materials that can generate energy.

IIs.



Partners

Perovskite devices have a very high specific energy (Watts / Kg) and so would add little in terms of mass, while generating lots of energy. Looking for partners in the utilisation of solar cells in new applications. Particularly interested in aerospace, satellite and automotive.







Organisational Capabilities

We have a long-standing track-record in 3rd generation solar cells (polymer and perovskite). We have advanced processing and evaluation facilities. We work on spray-coating devices and undertake detailed studies on device operation and basic physics.





Administrative Information

Department of Physics and Astronomy University of Sheffield

Prof. David Lidzey Electronic and Photonic Molecular Materials Group <u>https://epmm.sites.sheffield.ac.uk</u> <u>d.g.Lidzey@Sheffield.ac.uk</u> 07544 599973 Sheffield, United Kingdom PIC code 999976881

Development of next generation synthetic renewable fuel technologies (HORIZON-CL5-2024-D3-02-02) **Proposed Approach & Experience**



Partners

What is your understanding of the part of the problem/challenge you can solve? We are planning to develop a new zero-gap electrochemical cell technology to reduce carbon dioxide in order to solve the mass transport and ohmic loss problems that the current CO2RR suffer. We will develop novel catalyst-coated membranes, an electrochemical cell, and a short stack to produce methanol and formic acid that will be used in fuel cell technology. What previous, relevant, work or track record can you bring to the team? We have successfully developed membranes, bipolar plates, electrochemical cells, and stacks that will be actively used in this project. Thus, novel proton conductive fibre- reinforced membranes will be developed, and new CO2 electrochemical cells and a 4- cell short stack will be manufactured based on our expertise.	If you are looking for partners, what type of partners are you looking for? CIIAE (Spain) will develop proton conductive fibres for the composite membrane fabrication. C2CAT B.V. (The Netherlands) will develop catalysts for electrochemical CO2 reduction. GENESINK (France) will formulate catalyst inks and fabricate catalyst-coated membranes. SAATI (Italy) will develop vowen meshes for the reinforced membranes.
Organisational Capabilities	Administrative Information
What skills, capabilities, facilities does your organisation have that will be vital for this project?	Is your organisation academic, SME, big business, etc. Academic
Our group has expertise in fuel cell and water electrolysis technologies. We will develop	Are you planning on being the Coordinator or a Partner?
new technology based on water electrolysis results that we got. Thus, water will be	Coordinator Your contact details including:
electrons on Ir or non-Ir catalysts. The formed protons will move through the polymer	Name: Elvin Alivey
electrolyte membrane, while electrons will transfer through the external circuit. The	Email: e.aliyev@bham.ac.uk
humid carbon dioxide will be introduced into the cathode side and reduced on the novel	Phone number: 07587127560
catalysts using the protons and electrons travelling from the anode side in order to	What country are you from: United Kingdom
produce HCOOH and CH3OH. The products will be tested on the fuel cell devices.	Your organisation's <u>Participant Identification Code (PIC</u>) if your
	organisation has one: 999907526

Green H2 & Biogenic CO2 Utilisation

Proposed Approach & Experience

Approach

- Novel biomass electrolysis technology to co-produce green hydrogen and biogenic CO2 in separate parts of the reaction, no post-separation or capture required
- Feedstock is abundant lignocellulosic biomass
- Electrochemical process powered only with renewable electricity
- 50% reduction in energy requirement for green hydrogen, down to 25 kWh/kg
- Targeting **\$2/kg** green hydrogen and **\$100/tonne** biogenic CO2

Experience

- CTO research at the University of Cambridge on waste-to-hydrogen technologies
- CEO industrial experience developing the UK's largest hydrogen project worth \$800 million while at ExxonMobil
- COO 10+ years startup experience commercialising emerging technologies
- Technology is lab demonstrated and currently building an MVP (1 kgH2/day) by the end of the year with paid off-take (TRL 4 to 5)

Organisational Capabilities

- Team of nine with expertise in hydrogen, electrochemistry, biochemistry, catalysis, and engineering; six with PhDs
- London laboratory facilities with testing rig and analytical equipment
- Birmingham site for MVP and larger engineering testing, with safety systems and hydrogen off-take setup
- Collaborative network of interested biomass producers in the UK



Partners

SMEs and corporates piloting utilisation cases:

- E-fuels from H2 and/or CO2, including e-SAF, green methanol, and green ammonia
- Bio-ethanol integration
- CO2 geologic storage or sequestration into building materials

Biomass producers:

- Breweries
- Distilleries
- Paper recycling
- Agriculture waste
- Sugar production

Administrative Information

Ki Hydrogen Ltd UK-based SME Coordinator or Partner

Contact information:

• Koji Muto, CEO <koji@ki-hydrogen.com>



HORIZON-CL5-2024-D3-02-09 - Demonstrations of innovative floating wind concepts HORIZON-CL5-2024-D3-02-04 - Critical technologies for the future ocean energy farms

Technology Offer

SeaStack™

- Direct seawater-to-hydrogen electrolyser for use in marine environments
- Suitable for offshore installation
- Minimal balance of plant
- Small footprint, compact and robust
- NO desalination required

Looking for partners in

- Offshore Hydrogen Production Pilot Projects
- Offshore Wind Operators
- Ports and Harbours

Organisational Capabilities

Latent Drive are a small start-up specialising in innovative green hydrogen technologies aimed at **mass production** and **scalability**.

We can offer facilities to provide our SeaStack technology, associated control systems and balance of plant.

Our team combines 40+ years of engineering expertise. We are well-equipped to scale production, drive technology development, and secure key opportunities for our hydrogen technologies.

LATENT DRIVE



Administrative Information Organisation: SME Partner, United Kingdom PIC: 878494081 Frazer Ely, <u>frazer.ely@latentdrive.co.uk</u>, 07766 752501 Demonstrations of innovative floating wind concepts HORIZON-CL5-2024-D3-02-09

Partners **Proposed Approach & Experience** What is your understanding of the part of the problem/challenge you can solve? If you are looking for partners, what type of partners are you What previous, relevant, work or track record can you bring to the team? looking for? Offshore wind developers Windworks created the world's first real-time blade control system for wind turbine Offshore wind test facilities blades, empowering accessible and affordable clean energy. This technology uses onboard sensors and our in-house software to actively adjust the orientation of turbine blades in real-time, improving turbine performance, lifetime and electricity costs. Administrative Information **Organisational Capabilities** What skills, capabilities, facilities does your organisation have that will be vital for this Is your organisation academic, SME, big business, etc. Are you planning on being the Coordinator or a Partner? project? Windworks is a spin-off from EPFL University in Switzerland. Startup Partner We have a partnership with SeaTwirl, global leaders in developing utility scale vertical Matt Taylor axis turbines for floating offshore applications. matthew.taylor@windworks.ai Switzerland Our software can help wind turbine manufacturers ensure safe turbine operation,

Our software can help wind turbine manufacturers ensure safe turbine operation, extending turbine lifetime from 15 to 25 years of operation and reducing their cost of electricity by 20 to 55%.

Horizon Europe Energy Collaborative R&D Funding



Proposed Approach & Experience

Nium has developed novel technology for green ammonia synthesis at lower operating conditions vs Haber Bosch. This means we integrate directly with hydrogen generation sources (eg. electrolysers) removing the need for hydrogen compression/storage and enabling flexible operation with renewable power.

We have a modular, containerised solution which can be easily deployed and scaled.

Our technology will help decarbonise ammonia production and unlock green ammonia as a versatile energy vector.

Organisational Capabilities

Purpose built R&D facilities at Milton Park, Oxfordshire

- Prototype reactors with inline analytical capabilities
- Large scale catalyst production in development on site
- 7 FTE tech team (heterogenous catalysis, physics, solid state chemistry, materials science, microscopy, nanotechnology, chemical and mechanical engineering)
- Pilot plants coming online in 2025

Partners

We are interested in partnerships with the following:

- Agricultural Producers / Fertiliser Offtakers
- Ammonia Producers/Offtakers
- Fertiliser Producers
- Renewable Energy Developers
- Green Hydrogen Developers
- Power-To-X Investors

Administrative Information

Nium is an SME

We are interested in acting as a partner

Contact details:

Joe Were - joe.were@wearenium.com - +447851235123 Commercial Director UK Nium PIC 877727296 Project title: A source-to-sink approach to natural hydrogen exploration

Proposed Approach & Experience

Natural hydrogen has the potential to significantly abate CO₂ emissions and mitigate climate-change. However, the deep structural controls on the genesis and distribution of natural hydrogen is not understood making exploration targeting difficult. This proposal is to develop a holistic source-to-sink approach that integrates diverse multidisciplinary (3D multiphysical and soil-gas geochemical) data for increased success in the exploration and development of commercial geologic hydrogen reservoirs in the deep subsurface.

The proposer has won awards in academia and industry, and has a track record of developing and applying innovative workflows and Multiphysics data integration technologies for remotely characterising contaminated land, solid minerals, groundwater and geothermal reservoirs (21.5 years), oil and gas reservoirs (15 years); natural hydrogen exploration and CO2 storage in the subsurface (4 years) in Europe, Asia, South America and Africa (155+ innovative publications).

Organisational Capabilities

(i) Robust workflows for cost-effective exploration for natural hydrogen and geothermal energy resources (Meju, M.A. & A.S. Saleh, 2023. Using large-size multi-dimensional marine electromagnetic data for efficient combined investigation of **natural hydrogen** and hydrocarbon gas reservoirs: A geologically-consistent and process-oriented approach with implications for carbon footprint reduction. *Minerals*, **13**, 745. https://doi.org/10.3390/min13060745). (ii) Algorithms and software technology for massively parallel modelling and inversion of 3D Multiphysics data. (iii) Algorithms and software technology for multidimensional quantitative integration of physical and chemical data from different measurement platforms. (iv) Well-established collaboration with geophysical equipment pool facilities in Europe and Brazil (Observatorio Nacional –Rio de Janeiro). (v) Past success as project coordinator in EU FP7 programme.



Partners sought

n of osal ary tion e.);	 (i) Geochemical partners with robust soil-gas measurement systems (able to measure flux) for H₂, CH₄, N₂ & He. DGT Group, Lancaster University (DGT.com) contacted. (ii) Partners with expertise in, and instruments for, deep seismic reflection acquisition, processing and quantitative interpretation. (iii) Partners with expertise in, and instruments for, deep electromagnetic data acquisition and processing 	
	Administrative Information	
mal	Geomaxo is a SME with strong university collaborations.	
	Proposal partner.	
n		
	Contact details : Dr Max A. Meju, maxmeju@gmail.com;	
/	maxmeju@geomaxo.com	
у	Tel: +44-7845-530644	
е	Country: UK	

Innovative, Community Integrated PV systems (CL5-2024-D3-02-06)



Proposed Approach & Experience

What is your understanding of the part of the problem/challenge you can solve? What previous, relevant, work or track record can you bring to the team?

Regulatory support such community integrated PV systems is highly variable. Some facilitate the translation of low electricity generation costs into low end-user pricing, some do not. Business models and socio-technical configurations have evolved accordingly. We need to understand how these interact to ensure that end users, especially those in energy poverty and on low incomes, can benefit from low generation costs.

Organisational Capabilities

What skills, capabilities, facilities does your organisation have that will be vital for this project?

Our team has worked on community energy in the UK in different capacities, but mainly academic and practice-oriented, for 15 years which has resulted in numerous collaborations and publications.

Partners

If you are looking for partners, what type of partners are you looking for?

We are looking for partners involved in business model innovation which facilitates the translation of low electricity generation costs form community integrated PV systems into low end-user pricing, especially from Mediterranean countries. Partners could be academic, SME or government

Administrative Information

Is your organisation academic, SME, big business, etc. Are you planning on being the Coordinator or a Partner?

Your contact details including: Colin Nolden, c.nolden@sheffield.ac.uk United Kingdom 999976881

Built Environment/Energy Cluster calls



Proposed Approach & Experience

There is a need to work at the boundaries of disciplines to support research: e.g. policy/governance working with technical research of energy/buildings; different actors/disciplines across energy systems utilising same models/assumptions.

The **Urban Energy Research Group** (UERG) is a multi-disciplinary group in areas of building physics, energy modelling, and energy behaviour, including three current Horizon projects: **CrossCERT**, looking to test and validate next-generation Energy Performance Certificates across Europe; **FEDECOM**, identifying methods of increasing renewable energy penetration in local energy systems; and **InterPED**, designing and monitoring Positive Energy Districts. Furthermore, the £20M **Reflex** InnovateUK project explored methods of aligning local renewable supply with energy demand of communities in Orkney. UERG is also part of the UK EPSRC **H+C Zero Network**, focussing on decarbonising heating and cooling.

Organisational Capabilities

Within Heriot-Watt University's Institute of Sustainable Built Environment, UERG has a long track record of funding in the area of energy and buildings.

The team have experience in building energy modelling, energy system modelling, the role of simulation and modelling within energy policy, and the interaction of behavioural science with energy analyses.

This is also supported by the iNetZ+ Institute, a cross-university initiative looking to respond to the challenges of Net Zero. This institute has research support, commercialisation, and dissemination facilities to utilise.

Partners

Interested in:

ch of energy/buildings; different same models/assumptions. hulti-disciplinary group in areas of ehaviour, including three current validate next-generation Energy M , identifying methods of increasing stems; and InterPED , designing and e, the £20M Reflex InnovateUK project pply with energy demand of UK EPSRC H+C Zero Network , focussing	 Role of building Energy Performance Certificates in supporting zero carbon policy and linking modelling expertise with implementation of the Energy Performance of Buildings Directive (looking for academic partners, energy agencies, municipalities, practitioners/consultants) Partners looking to enhance understanding of relationship between energy supply and demand in community energy projects
	Administrative Information
ainable Built Environment, UERG has a and buildings.	Academic organisation, looking to partner a bid
	Contact details:
delling, energy system modelling, the	Prof David Jenkins, Heriot-Watt University, Scotland, UK
oncy, and the interaction of behavioural	D.P.Jenkins@nw.ac.uk
ross-university initiative looking to ute has research support, o utilise.	PIC: 999853400





Rapid Fit External Insulation System

U-Value 0.265



Seeking Manufacturing and Research Partners







The worlds first Insulated Greenhouse

W/m/K value 1.808



Contact assim@envirup.com 0044 7976 878882

















LJMU – Energy R&D Funding

Proposed Approach & Experience

- >9m Euro won in EU Funding
- Participation in >12 EU projects participation and coordination
- Strong team working on alternative fuels and offshore wind
- Interested in the following calls:

Critical Technologies for the future ocean energy farms Development of next-generation synthetic renewable fuel technologies Carbon capture units and their potential to produce alternative fuels Demonstration of innovative floating wind concepts Biofuel production and usage in the transportation sector.

Partners

We are looking for

- Technology Developers
- Research Centres
- Engineering Design Companies
- Feedstock Providers
- Laboratory Institutes
- Fleet managers or owners in the transportation sector.

Organisational Capabilities	Administrative Information
 LOOM – Liverpool Logistics, Offshore and Marine Research Institute 	Liverpool John Moores University
• Expertise: -LCA, CFD, power system simulation, environmental modelling, cost-	United Kingdom
benefit analysis, alternative fuels, dual-fuel engines, fuel cells, offshore wind, solar	Prof Jin Wang
energy, energy storage systems risk assessment, human factors, decision making	Dr Eddie Blanco Davis
systems, optimisation algorithms, machine learning, transport decarbonisation,	Dr Andrew Spiteri
cyber security, and port logistics.	Dr Onur Yuksel
 Prospero – High Performance Computer >3,500 cores 	Email: o.yuksel@ljmu.ac.uk
Ongoing research:	Number: 0777 882 07 28
• Hydrogen fuel cell, battery, waste heat recovery system design, integration and optimisation to ship electricity generation system through numerical modelling.	
• Ammonia decomposition system design and safety analysis onboard to produce green hydrogen.	



Development of next generation synthetic renewable fuel technologies (HORIZON-CL5-2024-D3-02-02)

Proposed Approach & Experience:

Approach:

- Lessons learned from previous projects
- Demonstration capabilities in the future
- Utilisation of our own green hydrogen and potential for DAC – excess renewable energy available locally.

Experience

- Demonstrated synthetic fuel technologies previously
- Production of synthetic gasoline from Hydrogen
- Numerous synthetic fuel projects focused on synthetic fuel technologies
- Green hydrogen production and hydrogen ecosystem in Orkney.
- Access to extensive supply chain potential project partners

Partners

THE EUROPEAN MARINE ENERGY CENTRE LTD

- Synthetic fuel technology developers
- Academic institutions
- National laboratories or low TRL test facilities.





Organisational Capabilities

What skills, capabilities, facilities does your organisation have that will be vital for this project?

Facilities:

- Hydrogen ecosystem: electrolysis, compression, storage, transportation.
- Local synthetic fuel offtakers
- Caldale facility including access to renewable energy

Capabilities:

- Hydrogen and synthetic fuel engineers and technical experts
- Electrical and operational engineers
- Full project management team
- Business support including marketing, stakeholder engagement and commercial modelling.

Administrative Information RTO, innovation partner, real world MRE test facility.

Your contact details including: Matthew Finn Commercial Director

+44 (0)1856 852064 Matthew.Finn@emec.org.uk Orkney, Scotland. PIC 999493239



CCU for the production of fuels (HORIZON-CL5-2024-D3-02-11)

Proposed Approach & Experience

Approach:

- Proposed demonstration of CCU activities utilizing access to available renewable energies from EMEC's owned grid connected test site.
- Lessons learned from previous projects within synthetic fuel production and green hydrogen.

Experience

- Demonstrated synthetic fuel technologies previously
- Production of synthetic gasoline from Hydrogen
- Multiple demonstrations of renewable technologies on EMEC sites.
- Numerous synthetic fuel projects focused on synthetic fuel technologies
- Green hydrogen production and hydrogen ecosystem in Orkney.
- Access to extensive supply chain potential project partners

Organisational Capabilities

What skills, capabilities, facilities does your organisation have that will be vital for this project?

Facilities:

- Hydrogen ecosystem: electrolysis, compression, storage, transportation.
- Local synthetic fuel offtakers
- Caldale facility including access to renewable energy.

Capabilities:

- Hydrogen and synthetic fuel engineers and technical experts
- Electrical and operational engineers
- Full project management team
- Business support including marketing, stakeholder engagement and commercial modelling.

THE EUROPEAN MARINE ENERGY CENTRE LTD

Partners

- CCU developers
- Academic institutions
- National laboratories
- CCU and synthetic fuel supply chain partners



Administrative Information RTO, innovation partner, real world MRE test facility.

Your contact details including: Matthew Finn Commercial Director

+44 (0)1856 852064 <u>Matthew.Finn@emec.org.uk</u> Orkney, Scotland. PIC 999493239



Critical technologies for the future ocean energy farms (HORIZON-CL5-2024-D3-02-04)

Proposed Approach & Experience

Approach:

- Provide grid and non-grid connected facilities for testing of future components of marine renewable energy farms.
- "plug and play" test sites enabling operational efficiency.
- Extreme maritime conditions to test longevity and corrosion resistance, focus on improving efficiency, durability, operation and maintenance through best practice learnings
- Real time condition and performance monitoring ability to host new technology for hydrodynamic modelling, big data and machine learning.

Experience:

- 21 years of demonstrating MRE devices, components, systems and arrays.
- Broad range of expertise to suit all levels of TRL.
- Grid connected and non-grid connected sites.

Organisational Capabilities

Facilities:

- Grid and non-grid connected, open-water test sites
- Waverider buoys, instrumentation and equipment eg, ADCPs.
- Test support buoy with Microgrid capabilities to monitor power output
- LiDAR
- Pre-consented envelope of activities

Capabilities:

- MetOcean data including 21 years MetOcean data collection.
- Performance test engineers
- Environmental and consenting experts
- R&D engineers and full project management office.



Partners

THE EUROPEAN MARINE ENERGY CENTRE LTD

- MRE technology developers
- Marine contractors
- Measurement and sensor developers
- Software and AI developer support
- Academic and research institutions
- NGOs with marine conservation/ sustainability focus
- Government and regulatory bodies

Administrative Information RTO, innovation partner, real world MRE test facility.



Your contact details including: Dernis Mediavilla. Commercial Manager Lily Wain, Marine Energy Development Coordinator

+44 (0)1856 852218

Dernis.Mediavilla@emec.org.uk; Lily.Wain@emec.org.uk Orkney, Scotland. PIC 999493239



Efficient, sustainable and inclusive energy use (HORIZON-CL5-2024-D4-02) KSO C & A

Proposed Approach & Experience

Intercultural Roots' EcoGPX[®] and "Places by EcoGPX[®]" mobile app offers valuable contributions to the call by:

- Enhancing Community Engagement: Through deep listening and participatory practices, fostering meaningful involvement in urban planning, especially in diverse and disadvantaged communities.
- Innovative Digital Tools: Developing the "Places by EcoGPX" app that connects users to local environments via creative, location-based content, directly supporting participative urban design.
- Sustainability Focus: Promoting eco-artistic practices that drive sustainable behaviours and decisions, aligning with the call's goals for environmental impact.
- Cultural and Social Integration: Addressing the social and cultural needs of urban spaces, creating inclusive environments that reflect the community's values.

Organisational Capabilities

- Diverse Leadership: Experienced professionals with significant representation from Black and Racially Minoritised groups.
- Technical Expertise: Specialists in mobile app development, digital media, and interactive technologies.
- Proven Project Delivery: Successfully scaled projects, growing turnover from £83,630 to over £228,000 in one year – Successful Innovate UK project funding of £150K
- State-of-the-Art Facilities: Access to cutting-edge technology and facilities within the 'Silicon Spa' Creative Cluster 'Launchpad' Quarter.
- Inclusive Approach: Strong focus on community engagement, social justice, and ecological sustainability.



EcoGPX[®]

Impact Contribution

Intercultural Roots and EcoGPX[®] bring diverse leadership, a cutting-edge social and environmental innovation digital app expertise, and a proven track record in delivering impactful, community-driven projects. With access to state-of-the-art mobile app development, expert team and a strong focus on inclusivity, social justice, and sustainability, we are ideal partners for creating innovative, participatory urban environments that resonate ecologically with communities and stakeholders. Administrative Information Intercultural Roots for Public Health is a UK based (London Registered) CIO – Charitable Incorporated Organisation regulated by the Charity Commission for England and Wales No. 1179885 – Companies House No. CE015098 Contact details: Dr Alex Boyd – uid - n00fhv6a alex@interculturalroots.org

+44 (0)7753 611768 British, UK PIC No. 876569989

Topic: Buildings and industrial facilities in energy transition

Proposed Approach & Experience

-Air Source Heat Pumps:

- Low-Carbon innovations for heating homes such as Air Source Heat Pumps are becoming more common
- Environmental noise concerns
- Elements such as pipes, fans, compressors, and valves all have potential to create noise inside and outside of the home

-Modular Buildings:

- Employ lightweight mobile structures- must be transported from factory to site
- Reduced mass means more sound transmission and less absorption
- Adding acoustic treatment may add to mass

Acoustics research has been conducted at Salford University for over 60 years. It is funded by research councils, national and international government bodies, and industry. Our research has fed into products that companies make and sell worldwide, as well as regulations and standards used in the UK, Europe and internationally.

Organisational CapabilitiesAdministrative InformationWe have world-class acoustics laboratories: listening rooms, reverberation rooms, anechoic chambers, an accredited
calibration laboratory and state of the art equipment and instrumentation. We are the Designated Institute for
Airborne Acoustics Metrology in the UK. Through the laboratories we bring much of our fundamental research into
real life applications. We also have a commercial team who carry out testing and R&D work.Administrative Information
Acoustics Research Centre
University of Salford
Manchester M5 4WT
Looking at joining a consortium as partner.

Advanced Acoustics Testing:

- Structure-borne and vibration measurements
- Scanning laser vibrometer
- High-fidelity measurements of Sound Power Level and directivity (Bespoke microphone array & Microflown intensity and vector intensity probes with 2D and 3D 'Scan and Paint' post-processing software)



Partners

Looking for following partners:

- Heat Pump manufacturers
- Manufacturers in the low carbon and Modern Methods of Construction fields
- Experts in energy research

Dr Antonio J Torija Martiinez

+44(0) 161 295 0400

United Kingdom

PIC: 999829441

A.J.TorijaMartinez@salford.ac.uk

Regulators

Just Energy Transition in the Northern Cape Province - South Africa: A Case Study

Proposed Approach & Experience

What is your understanding of the part of the problem/challenge you can solve? What previous, relevant, work or track record can you bring to the team? This research primarily aims to analyse the dynamics of the just energy transition in the Northern Cape Province. It specifically focusses on the following aspects:

- Identifying the primary individuals or groups who have a significant interest or influence in the process of transitioning to alternative energy sources.
- Evaluating the societal and financial effects of renewable energy initiatives on nearby communities.
- Evaluating the **policy frameworks and regulatory systems that regulate the transition of energy in the region.**
- Investigating the obstacles and potential for successfully transitioning to renewable energy sources in a fair and equitable manner.
- Research experience: <u>https://ivansteenkamp.academia.edu/</u>

Organisational Capabilities

What skills, capabilities, facilities does your organisation have that will be vital for this project?

- Evers Xcellence leverages advanced data collection and analysis to personalize learning experiences, identify skill and research gaps, and continuously improve our training programs based on real-time insights.
- Ivan, as the Project Manager has a commitment to academic excellence which is evident through his current pursuit as a PhD Research scholar at UNICAF University, Zambia Campus. His dedication to scholarly research underscores his passion for continuous learning and knowledge dissemination.

Partners

If you are looking for partners, what type of partners are you looking for?

- Government institutions.
- Independent Power Producers (IPPs).
- Mining houses within the radius of solar energy projects.
- Development Financial Institutions (DFIs).



Administrative Information
Is your organisation academic, SME, big business, etc.
• Yes – we are a Small, Micro Enterprise (SME)
Are you planning on being the Coordinator or a Partner?
• Our organisation can play both roles – Coordinator or a
Partner.
Your contact details including:
Name: Ivan Steenkamp, Email: phdscholarza@gmail.com
Phone number: +27828904759 / +27538312974
What country are you from: South Africa
Your organisation's Participant Identification Code (PIC) if your
organisation has one – None.

Model-Based Electrode and Cell Manufacturing

Contact: Mona Faraji Niri, PhD Associate Prof, Battery Systems Email: Mona.faraji-niri@warwick.ac.uk LinkedIn



An Intersection of AI+First Principal Models and Inline Characterization



This Multi-scale modelling Promise offers:

- Reduce Waste During R&D and Innovation investigations, Enabling Manufacturing process Optimisation and control
- Reduce Commissioning, and dial-in Time and Effort
- Effective Scale Up, Transferability, and innovation accommodation across various materials and process technologies

- The Team: <u>WMG Battery Systems</u>
- Experience: Academics, Engineers and Leaders
- **Team size:** 52
- Related projects: <u>Nextrode</u> by Faraday Institution, 2019-2027
- **Facilities:** Electrode and Battery Manufacturing pilot line, co-owned facilities with UKBIC and CPI, Battery Characterisation facilities (over 1000 cell cycling channels), HiL lab, <u>Virtual Tour</u>
- Published Records

CALL: Horizon Europe energy collaborative R&D funding



Proposed Approach & Experience	Partners
1. What is your understanding of the part of the problem/challenge you can solve? PelkTec Co. Ltd propose solutions for Clean Energy project development (sufficiency,	If you are looking for partners, what type of partners are you looking for?
efficiency and affordability). Thus, proves to sustaining Economic growth, impacting	1. Product and Equipment Manufacturers/Suppliers
Environmental resilience in global context against GHG emissions, hence derives an improved	2. Investment/Project Finance entities
share prosperity in the Water-Energy-Food nexus activities.	3. Research Institutions and collaborators/Centers
	4. Production Line/Assembly Plant partners/Investment
2. What previous, relevant, work or track record can you bring to the team?	5. B2B
 a). Development of Clean Energy, E-Mobility, Resilient Climate Change Action, Agriculture & Industrial Machinery, and Water and Environmental Sustainability including R&D b). Incorporation of Tech-Driven (Digitalization) solution in the deployment of projects and Implementation with adherence to Environmental sustainability. c). Execute projects through Turnkey approach with favorable Project finance models aligned with client's operational needs with Offtake Agreement. d). Collaboration with reputable Deep-Tech Technology suppliers and Financial/Investor organizations in the world Spotlight market as partners in the fast growing Clean Energy Development and Resilient Climate applications. 	6. Climate/Carbon Credits Finance
Organisational Capabilities	Administrative Information
What skills, capabilities, facilities does your organisation have that will be vital for this project?	Is your organisation academic, SME, big business, etc.
1. Clean Energy Production (Electricity, Heating & Cooling) as Off-Grid/Microgrid /Stand-	Are you planning on being the Coordinator or a Partner?
Alone, E-Mobility (EV development), Energy Storage Systems and Energy Efficiency	
2. Clean Water Production and Waste Water Treatment with Environmental Sanitation	Yes; SME and R &D, and ready to be coordinator/partnership
3. Green Infrastructure and Community Development	Your contact details including: Name: Dr. Emmanuel Payne
4. Resilient Climate Practice (Mitigation and Adaptation)	Managing Partner, PeikTec Company Ltd; <u>www.peiktec.com</u>
5. Agriculture Processing & Industrial machinery	Email: <u>mypaynegm@gmail.com</u> ; 1ei: +233 202849958
 Project development, reasibility and consultancy as EPCIVI (Turnkey with Project finance) Technology Research and Development expertise 	Unana Vour organization's Participant Identification Code (PIC) if your
7. recimology Research and Development expertise	organisation has one

WINDORA (Wind Operation Data Analysis)

nstitute Scotland

AM gear tooth repair



data analytics (Co-Lab).

University of Strathclyde, NMIS (https://www.nmis.scot), we would like to be considered as a partner. Dr. Evgenia Yakushina, Evgenia Yakushina@strath.ac.uk +7446165483, Scotland, UK, (PIC): 999974068