European Innovation Council

EIC Immersive Programme for Cleantech

8 – 12 December 2025
Houston and Austin, Texas
United States

#EUeic

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eic.ec.europa.eu

EIC delegation index by category

Clicking on the logo will take you to the page with all the company information.

	Energy	Circular Economy and Materials	Industry 4.0 and Manufacturing	IoT and Smart Infrastructure	Photonics and Electronics
BLYKALLA	●				
Catalyxx	●	●			
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InfiniteFoundry 3D Digital Plant			●	●	
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European Innovation Council

European Innovation Council

Europe's biggest deep-tech investor

The European Innovation Council (EIC) is Europe's flagship innovation programme to identify, develop and scale up breakthrough technologies and game changing innovations.

The EIC has a budget of EUR 10.1 billion to support innovation throughout the whole lifecycle, from early-stage research to proof of concept, technology transfer and the financing and scale up of start-ups and small companies.

The EIC functions under the following schemes:

- EIC Pathfinder supports research teams to research and/or develop emerging breakthrough technology.
- EIC Transition supports the maturation of a novel technology and development of a business case to bring it to market.
- EIC Accelerator supports funding and investments through the EIC Fund for individual start-ups and small companies to develop and scale up their breakthrough innovations.
- EIC STEP Scale-up offers equity only funding to start-ups, SMEs, and small mid-cap for high-risk innovations.

The EIC strives to ensure that financial support is only the beginning of the awardees' journey. This is why they provide all EIC-supported projects and companies with access to a range of Business Acceleration Services (EIC BAS) worth up to EUR 50,000 to boost their innovation and growth at any stage of development of their activities, and of the EIC research and innovation cycle.

They are there to equip innovators with a wealth of resources designed to unlock unique mentoring and training opportunities, global partnerships, innovation ecosystems, and much more.

European Innovation Council

The EIC Fund

The EIC Fund is the largest European deep tech investor, with a mission to invest across all technologies and verticals in all European countries.

The EIC Fund supports companies in the development and commercialization of disruptive technologies, bridging with and crowding in market players and further sharing risk. The EIC Fund has a large, and growing network of capital providers and strategic partners to lead investment rounds or to co-invest. The investment stage is typically series A, but it can be before and also after.

The Fund pays particular attention to the empowerment and support of female founders as well as the ambition to reduce the innovation divide among EU countries.

European Innovation Council

The EIC Immersive Programme

The EIC Immersive Programme is an EIC Business Acceleration Service that gives EIC innovators the opportunity to expand their technologies overseas, offering them tailored services and the right guidance and tools to connect and build international partnerships. For this edition, this programme is partnering with Rice University, Greentown Labs Houston and Texas Association of Business to provide the selected EIC companies with additional guidance from a structured innovation methodology focusing on cleantech innovation.

European Innovation Council

EIC delegation for the Immersive Programme in Texas for cleantech

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European Innovation Council

The 15 EIC-backed companies at a glance

Blykalla is pioneering the next generation of nuclear power through its SEALER — a 55 MW lead-cooled reactor designed for factory fabrication, transportable deployment, and inherent safety. Developed from over 30 years of research, Blykalla's technology enables cost-effective, fossil-free energy for industries and data centers, advancing energy security and the climate transition.

Catalyxx transforms bioethanol into drop-in, cost-competitive, carbon-negative chemicals. We enable our customers to de-risk their supply chain and reduce CO_2 emissions without sacrificing profitability, existing infrastructure, or product performance.

Circular Materials developed and patented the SWaP technology, a process that treats industrial wastewater and recovers critical metals using proprietary technology that leverages supercritical water properties, achieving over 99% recovery of metals like Ni, Cu, Ru, Ag, Au, and Pd. We are scaling this technology by building and operating Circular Materials Recovery Hubs across Europe, serving key manufacturing districts. This initiative is recognized by the European Commission as a Strategic Project under the Critical Raw Materials Act.

LAYER® by Dracula Technologies is an ultra-thin, flexible, and sustainable energy solution for indoor IoT devices. It converts ambient light into electricity, providing long-lasting, maintenance-free power while reducing costs and environmental impact. Its customizable form factor allows seamless integration into a wide range of low-power applications without batteries or cables.

Energy Dome provides US-made, long-duration energy storage technology based on a patented CO2 thermodynamic process. Designed for rapid deployment and cost efficiency, our solution enables 24/7 renewable power. With a commercial plant already in operation and a strong pipeline of projects with utilities and hyoerscalers (Google, Alliant, etc.), Energy Dome demonstrates that our technology is proven, scalable, and ready to provide the additional capacity needed today.

Infinite Foundry's technology creates a real-time 3D digital twin of industrial operations powered by physics-based AI. It enables companies to understand exactly how every resource is used, detect inefficiencies instantly, and automatically correct deviations before they generate waste. Beyond monitoring, the system simulates new processes, materials, and layouts to improve energy efficiency, reduce emissions, and extend product life cycles — ensuring industries meet market demands sustainably without exhausting the planet's resources.

LAVA developed the first isothermal thermodynamic cycle, delivering unmatched efficiency in converting heat to electricity and electricity to heat and cooling. This breakthrough positions LAVA as a game changer for geothermal, SMRs, industrial heat recovery, heat pumps for heating & cooling, and long-duration energy storage (LDES).

FireX® by Nano-Tech aims to redefine material performance in extreme environments by replacing metals like titanium with a lightweight, cost-efficient, and sustainable composite. Engineered to withstand temperatures up to 600°C, it delivers unmatched thermal stability, mechanical strength, and design flexibility, enabling manufacturers in aerospace, defense, and advanced mobility to achieve significant weight reduction, lower emissions, and enhanced efficiency. FireX® sets a new benchmark for high-temperature composites, driving the transition toward greener and more efficient industrial solutions worldwide.

European Innovation Council

The 15 EIC-backed companies at a glance

Nobula is building a versatile, laser-based platform for manufacturing glass—essentially a 3D printer for glass. Its Direct Glass Laser Deposition (DGLD) process produces complex, high precision components for advanced optics and photonics, including parts for next generation photonic interconnect manufacturing. DGLD removes large ovens, cleanrooms, and chemical post processing, letting teams move from CAD to finished glass in hours instead of months. Beyond lower operating cost, faster iteration, and greater design freedom, DGLD delivers optical grade performance straight from the printer, enabling photonic innovation at scale that traditional methods struggle to match.

Ocean Visuals provides OWL™ LiDAR sensor systems for real-time detection and classification of oil and organics in marine environments. Using advanced photonics, OWL™ gathers and contextualizes data from air, surface, and subsea to deliver actionable insights. The sensors detect hydrocarbons down to ppm levels, with AIR OWL™, ELF OWL™, and SEA OWL™ scanning up to 3 meters below the surface for comprehensive monitoring.

Pydro's vision is to make the water supply intelligent and sustainable through providing eco-friendly monitoring and sensing solutions to water utilities and distribution networks. Cities lose huge amounts of treated water due to unseen leaks. PT1 is a pipe-mounted sensor that powers itself from water flow and streams reliable, minute-by-minute data on flow, pressure, and temperature. Utilities get early leak alerts and real-time visibility without battery swaps, cutting operating costs and water losses.

Reblade offers a drone-based, automated blade maintenance solution for wind turbines, addressing the costly and slow process of manual repairs for leading edge erosion. The system automates the grinding, cleaning, and coating process, significantly reducing wind turbine downtime by 90% and repair costs. It's also the world's first offshore blade repair technology, bridging a gap in wind energy maintenance.

SOLAR MATERIALS develops and deploys innovative technology to extract high-purity silver and other valuable materials from end-of-life solar panels. Our process supports a circular economy, reduces dependence on raw material imports, and provides investors and partners an opportunity to enter the US market with a sustainable, scalable recycling model focused on critical raw materials.

Sustonable is an innovative surface material crafted from recycled PET bottles, pre consumer glass, and raw materials. It combines the elegance of premium finishes with exceptional durability, offering architects and designers a sustainable alternative to traditional surfaces. Whether for wall cladding, flooring, countertops, or decorative applications, Sustonable transforms waste into stylish and practical solutions. By choosing Sustonable, you're not just opting for aesthetics—you're embracing a material that redefines sustainable design, seamlessly blending beauty and responsibility.

VaultFS by Swiss Vault redefines data management with an intelligent, energy-efficient, and self-healing file system designed for performance and longevity. It cuts storage needs by 50%, consumes less energy per Terabyte, and runs seamlessly across any hardware or media. With built-in resilience, infinite scalability, and simplified control, VaultFS delivers faster, greener, and more reliable data storage - built to manage your precious data for decades.

BLYKALLA

European Innovation Council

Sweden
Founded in 2013

Compact, Safe Small Modular Reactors Powering Industry

Delivering clean, reliable and scalable energy for AI and industrial decarbonization.

- **40–60% cheaper** than conventional LWR* tech and delivered in under 2 years (vs. 7+ years).
- **Inherent safety** enabling co-location with industry (100s m planning zone vs. 100s km for LWR*).
- **Ability to reprocess spent fuel** – significantly reducing waste and time stored vs. LWR*.

*Light-Water Reactor (LWR)

Considered the #1 most mature advanced Small Modular Reactors (SMR) design in Europe
(OECD NEA ranking)

Partnering with leading industry players
e.g., Oklo, ABB and Uniper

Extensive R&D experience and IP
based on 30 years of research

Meet us

8 - 11 December
Houston and Austin

Key targets

Potential investors
Research / Testbed partners

For more information
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Catalyxx

European Innovation Council

Spain
Founded in 2018

Chemicals for the 21st Century

Replacing fossil chemicals with cost-competitive, drop-in, biobased alternatives.

- **Competitive:** Our products are cost-competitive with their petro-counterparts.
- **Decarbonization and defossilization:** Our process produces carbon negative, renewable chemicals.
- **Proven and scalable technology:** 14+ yrs of R&D, 120.000+ hrs of testing and 20.000+ hrs of operation.

CO2 savings
-3.5kg of CO2 eq /kg of product

Bio-based molecules identical to petrochemicals,
no changes needed in downstream processes

Ready to revolutionize a wide variety of industries:
paints, coatings, fragances, and more

Meet us

8 - 12 December
Houston and Austin

Key targets

Investors / VCs
Potential customers
Corporate partners

For more information
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CIRCULAR MATERIALS

European Innovation Council

Italy
Founded in 2019

SWaP: Supercritical Water Precipitation for Metal Recovery

SWaP: a sustainable and closed-loop system that turns industrial waste into value.

- **Dual function:** Simultaneously treats wastewater and recovers strategic metals.
- **Zero toxic sludge:** Eliminates the need for hazardous sludge disposal.
- **High efficiency, low impact:** 99% recovery, -80% kgCo2eq.

Circular
Handle waste risks, raise ESG profile

Versatile
Any metal, any concentration

Efficient
Up to 99% recovery of all metals

Meet us

8 - 12 December
Houston and Austin

Key targets

Investors / VCs
Local accelerators

For more information
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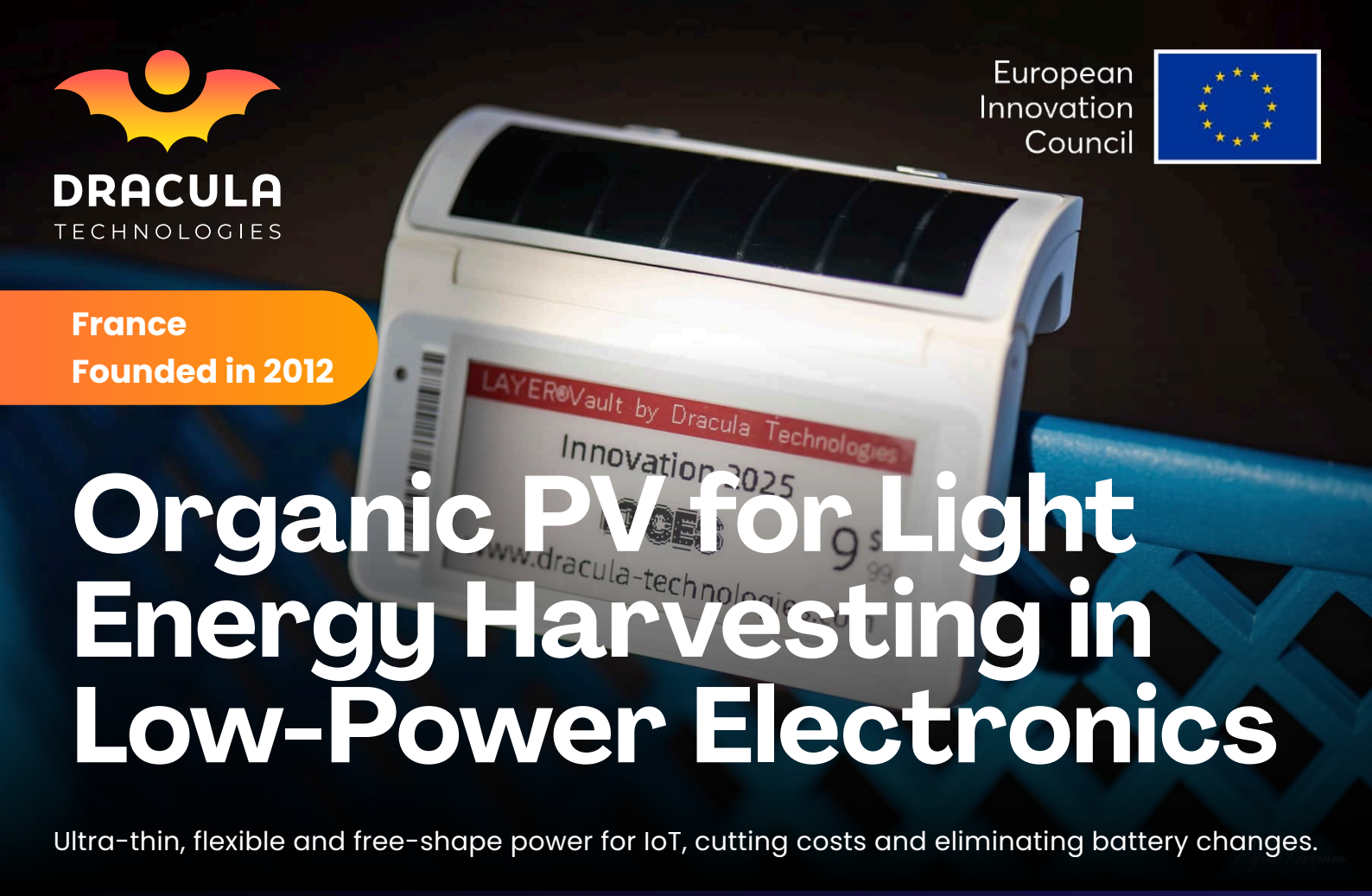
DRACULA TECHNOLOGIES

European Innovation Council

France
Founded in 2012



Organic PV for Light Energy Harvesting in Low-Power Electronics

Ultra-thin, flexible and free-shape power for IoT, cutting costs and eliminating battery changes.

- **Exceptional performance in low-light and harsh environments**, starting from just 50 lux.
- **LAYER® is the 1st OPV module that can be printed in any shape**, offering true design freedom.
- **LAYER® modules use only organic materials**, no rare earths or heavy metals.

Long-lasting and maintenance-free,
delivering 10+ years of indoor operation

Thin and flexible, easy to integrate,
enabling slimmer final products

Reduces total cost of ownership,
with up to 40% lower maintenance costs

Meet us

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Houston and Austin

Key targets

Potential customers
Corporate partners

For more information
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ENERGYDOME
Our WORLD can't wait.

European Innovation Council

Italy
Founded in 2020

The Future of Energy Storage, Ready Today

Energy Dome delivers US-made, long-duration energy storage, chosen by Google to power its AI.

- **Best in class technology:** proven, efficient (70%+ RTE) and cost-competitive.
- **US-made, leveraging oil and gas supply chain**, building a megafactory to cut costs.
- **Scalable design using off-the-shelf components** and ready-to-scale manufacturing.

Commercial plant in operation,
successfully dispatched by ENGIE

20+ GWh pipeline
with first projects contracted with Google and Alliant

Raised $130M+ from leading strategic
and financial investors

Meet us

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Houston and Austin

Key targets

Potential customers
Corporate partners
Investors / VCs

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InfiniteFoundry
3D Digital Plant

European Innovation Council

Portugal
Founded in 2017

AI-Physics 3D Digital Twin Platform for Sustainable Industry

Optimizing resource use and reducing waste through physics-based AI digital twins.

- **Real-time physics-based AI** for precise operational understanding and control.
- **GPU-accelerated simulations** to design greener materials, equipment, and processes.
- **Circular product twins** enabling component reuse and optimized recycling paths.

Up to 30% reduction
in energy and material waste through predictive optimization

50% faster industrial process reorganization
via real-time simulation insights

Enhanced circularity
Recover up to 70% of product components for reuse

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Key targets

Potential customers
Corporate partners
Investors / VCs

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LAVA

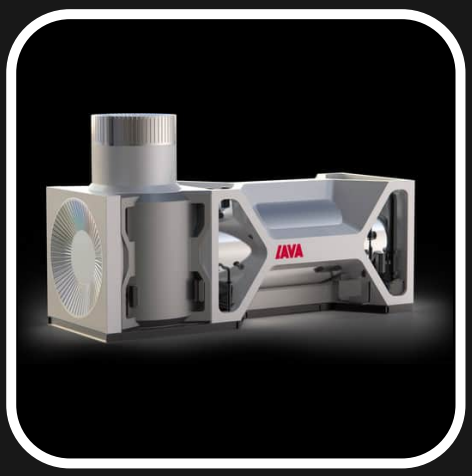
European Innovation Council

Israel
Founded in 2020

The First and Most Efficient Isothermal Thermodynamic Cycle

LAVA's liquid-based isothermal technology converts heat into power and power into heat.

- **Efficiency.**
- **CapEx.**
- **Simple manufacture:** No need for rear materials in manufacturing.



30% efficiency increase
compared to steam & ORC turbine efficiency

30–80% COP improvement in heat pumps
at a lower cost

60% reduction in price and weight
in heat exchangers and air coolers

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Houston and Austin

Key targets

Investors / VCs
Corporate partners
Potential customers

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Nano -Tech®
Nano Carbon Technologies

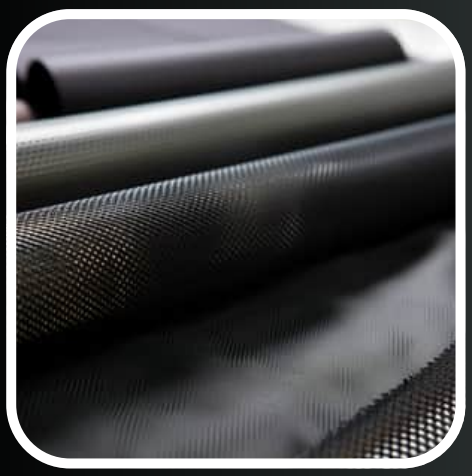
European Innovation Council

Italy
Founded in 2016

Unique Composite: Lightweight, Heat-Resistant, Sustainable

FireX® replaces metals with ultra-light, high-temperature, and sustainable composite performance.

- **Withstands up to 600°C:** The only composite matching metal performance at extreme temperatures.
- **50% lighter and 40% cheaper than titanium**, enabling massive efficiency and cost gains.
- **Clean, solvent-free process** ensures sustainability, scalability, and regulatory compliance.



50% weight reduction compared to titanium
for improved fuel and energy efficiency

30–40% cost savings
through simplified manufacturing and reduced raw material use

Up to 30% lower CO_2 emissions,
supporting global sustainability and decarbonization goals

Meet us

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Houston and Austin

Key targets

Potential customers
Corporate partners
Investors / VCs

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Nobula

European Innovation Council

Sweden
Founded in 2021

World's First Glass 3D Fabrication System, AI- and Laser-Powered

Enabling glass innovations at the speed of light.

- **An one-stop 3D glass fabrication solution** for silica glass.
- **Minimum infrastructure requirements**, scalable glass fab solution.
- **Full solution from, hardware, software**, consumables to IP licence.

Leadtime from months to minutes

100x lower operating cost

6x lower carbon footprint
than competing technology

Meet us

8 - 12 December
Houston and Austin

Key targets

Investors / **VCs**
Research / **Testbed partners**

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OCEAN VISUALS®

European Innovation Council

Norway
Founded in 2015

Remote System for Detecting and Tracking Marine Oil Spills

Fast and precise classification of what the substance is and where it originates from.

- **A highly effective and accurate tool** for early spill detection and classification.
- **To lose time is to lose track of the oil spill.** We enable you to act on real-time data.
- **One of a kind** technology.

Easy-to-use interface

Fast and reliable on-site data handling

Ready for worldwide deployment

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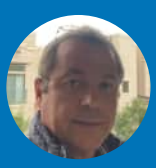
Key targets

Investors / VCs
Corporate partners
Potential customers



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pydro

WATER TO DATA

European Innovation Council

Germany
Founded in 2016

PYDRO PT1: Self-Powered Sensor for Smart Water Networks

Generates its own energy to deliver continuous water-network data—no batteries, lower cost.

- **Self-powered hardware:** no batteries or external power—dramatically lower maintenance.
- **Actionable real-time data:** find leaks early, reduce losses, improve service.
- **Lowest total cost:** quick install, remote updates, and easy integration with utility systems.

700M+ liters monitored continuously
in real networks to date

Has proven to send 1000× more data/day
than battery-powered solutions

Can detect leaks in minutes
to help prevent pipe bursts

Meet us

8 - 12 December
Houston and Austin

Key targets

Investors / VCs
Corporate partners
Potential customers

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REBLADE
AUTOMATED DRONE REPAIR OF WIND TURBINE BLADES

European Innovation Council

Denmark
Founded in 2020

Robotic Drone System for Automated Blade Maintenance

10x faster than manual repairs and with 90% reduction of wind turbine downtime.

- **Cost-effective:** Improves the costliest problem in the lifetime of a wind turbine.
- **Blazingly fast:** Repairs a full turbine in just 4 hours, instead of 4-5 days.
- **Scalable:** Automated tech eliminates the need for in-demand specialists.

Solves exponential problem
Critical shortage of 150,000 technicians

Award-winning team & tech
#1 in AI, #1 in Energy and #1 in Robotics

Reduces CO2 emissions
447 metric ton CO2 saved by each repair

Meet us

8 - 12 December
Houston and Austin

Key targets

Investors / VCs
Potential customers

For more information
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SOLAR MATERIALS

European Innovation Council

Germany
Founded in 2021

Silver Recovery for Sustainable Solar Panel Recycling

Efficiently reclaiming silver and critical materials from solar panels for sustainable reuse.

- **Advanced technology for** high-purity silver and critical material recovery.
- **Eco-friendly recycling process** enabling circular economy and resource efficiency.
- **Market entry strategy** connecting European innovation with US investors and partners.

Recover up to 95% of silver from end-of-life solar panels, adding significant value

Reduce waste and CO2 emissions by 80% compared to traditional recycling methods

Proven technology demonstrated in Europe and ready to scale operations into the US market

Meet us

8 - 12 December
Houston and Austin

Key targets

Potential customers
Investors / VCs
Corporate partners

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SUSTONABLE
The Circular Design Surface

European Innovation Council

The Netherlands
Founded in 2014

Sustonable. The Circular Design Surface.

Sustainable and recyclable decorative surface materialmade from post-consumer recycled PET bottles and recycled glass.

- **Each square feet of Sustonable** reuses 100 PET bottles.
- **Easy to install and lightweight.**
- **Durable and cost effective.**

70% recycled content

99% recycled

High-impact resistance

Meet us

8 - 12 December
Houston and Austin

Key targets

Investors / VCs
Corporate partners

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SWISS VAULT

European Innovation Council

Switzerland
Founded in 2018

VaultFS: Sustainable, Scalable, Smarter Data Storage for the AI Era

VaultFS slashes energy use, cuts e-waste, and boosts data speed with smarter, clustered storage.

- **FAST and energy ultra-efficient:** Uses parallel processing with erasure coding to achieve speed.
- **Self-healing:** Recovers from file or disk failures automatically - no downtime, no manual fixes.
- **Media-agnostic:** Runs on any storage tech, including SMR HDDs, with zero architecture changes.

Lower CAPEX & OPEX
Cut energy, hardware, and maintenance costs with efficient storage design

Always on
Ensure continuous data access with built-in fault tolerance and auto-recovery

Future-proof
Scale effortlessly and adopt new media without replacing infrastructure

Meet us

8 - 12 December
Houston and Austin

Key targets

Potential customers
Investors / VCs

For more information
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