HOUSTON ENERGY TRANSITION INITIATIVE

ION DISTRICT
POWERED BY RICE UNIVERSITY

RICE | ALLIANCE
Rice Alliance for Technology and Entrepreneurship

TEXE

2026 ENERGY VENTURE DAY & PITCH COMPETITION

MARCH 24-25, 2026 | CERAWEEK

ABOUT THE **HOSTS**

Rice Alliance for Technology and Entrepreneurship

Connecting global startups to capital, networks and success, the Rice Alliance for Technology and Entrepreneurship is a catalyst for building successful ventures through education, guidance and connections. Rice Alliance is Rice University's flagship initiative devoted to the support of technology commercialization, entrepreneurship education and the launch of technology companies. Since inception in 2000, more than 3,714 companies have participated in over 300 Rice Alliance programs and have raised more than $31.46 billion in early stage capital. The Rice Alliance powers programming at the Ion, the heart of Houston's innovation corridor in Midtown.

Houston Energy Transition Initiative (HETI)

The Greater Houston Partnership is dedicated to strengthening Houston's position as the Energy Capital of the World. The economic vitality and growth of our region's economy is inextricably tied to the energy industry. The Partnership's Houston Energy Transition Initiative (HETI) builds on the best of traditional energy skills and systems to leverage Houston's industry leadership to accelerate global solutions for an energy-abundant, low-carbon future. HETI is a coalition of industry, academic and community partners working together to ensure the long-term economic competitiveness and advancement of the Houston region as leaders of the global energy transition.

Texas Exchange for Energy and Climate Entrepreneurship (TEX-E)

Established in 2022, the Texas Exchange for Energy & Climate Entrepreneurship is a first-of-its-kind collaboration among leading universities, businesses, corporate innovators, and entrepreneurs. Based in the world's energy capital, TEX-E is a thriving ecosystem for student innovation to solve the dual challenge – the world needs more energy and less emissions. It's where students, startups, corporations, universities, and investors come together to passionately collaborate.

AGENDA

ENERGY VENTURE DAY AND PITCH COMPETITION | 2026

Energy Venture Day Pitch Preview | Ion

Day 1 | Tuesday, March 24

8:00 am	**Registration**		
9:00 am	**Welcome** **Brad Burke,** *Associate Vice President*, Rice Innovation; *Executive Director*, Rice Alliance for Technology and Entrepreneurship		
9:10 am	**Company Presentations | Industrial Efficiency & Decarbonization A**		
	MCatalysis Anax Power Cogniprise	Via Separations Mirico Arolytics	Agellus Tank Robotics Junipix Cybereum
9:45 am	**Company Presentations | Electricity & Grid**		
	ATS Energy Tierra Climate	Toluai Grid8	LAVA Power PolyJoule
10:10 am	**Company Presentations | Innovations for Traditional Energy Sectors**		
	CORROLYTICS Vycarb New Horizon Oil and Gas	Ionada Canada Capwell Services Daphne Technology	Mitico SPOTLIGHT
10:40 am	**Company Presentations | Advanced Manufacturing & Materials**		
	H Quest Vanguard Licube Oleo	NANOS CarbonLume	Kunin Technologies Maverick X
11:05 am	**Company Presentations | Renewable, Nuclear, & AI Technologies**		
	ZettaJoule Predyct	Mocean Energy Salem Robotics	Pix Force Energytech
11:30 am	**ARC** **Brad Burke,** *Associate Vice President*, Rice Innovation; *Executive Director*, Rice Alliance for Technology and Entrepreneurship		
11:35 am	**Lunch and Networking**		
12:35 pm	**Welcome Back**		
12:40 pm	**TEX-E Student Energy Innovation Companies** **Sandy Guitar,** *Executive Director*, TEX-E		
	Resonant Thermal Systems Quantum Power Systems	Srijan GOES	Quas (Cocarbon)
1:05 pm	**Company Presentations | Hydrogen & Fuel Cells**		
	Verdagy Power to Hydrogen	Ayrton Energy LNK Energies	Gemini Energy Mote
1:30 pm	**Company Presentations | Industrial Efficiency & Decarbonization B**		
	Sotaog intcom ChainWeave Airovation Technologies	Monitorai KP Labs Armeta ENP Technologies	Ammobia Membravo OCOchem
2:15 pm	**Closing Remarks** **Brad Burke,** *Associate Vice President*, Rice Innovation; *Executive Director*, Rice Alliance for Technology and Entrepreneurship		

AGENDA

ENERGY VENTURE DAY AND PITCH COMPETITION | 2026

Energy Venture Day Pitch Competition | McKinney Balcony, 2nd Level, George R. Brown Convention Center

Day 2 | Wednesday, March 25

Noon	**Company Registration**		
1:00 pm	**Welcome** **Jane Stricker,** *Sr. Vice President, Energy Transition & Executive Director HETI,* Greater Houston Partnership **John Reale, Jr. (JR),** *Managing Director for Startups and Investor Engagement, Rice Alliance for Technology and Entrepreneurship*		
1:05 pm	**Startup World Cup** **Justin Jackson,** *Partner,* Pegasus Tech Ventures **Lawrence Berg,** *Associate Investor,* Pegasus Tech Ventures		
1:10 pm	**Company Presentations A | Industrial Efficiency & Decarbonization**		
	Anax Power	Junipix	Monitorai
	Via Separations	Sotaog	Armeta
	Mirico	intcom	Membravo
	Agellus Tank Robotics	Airovation Technologies	OCOchem
2:00 pm	**Company Presentations B | Advanced Manufacturing, Materials, & Other Advanced Technologies**		
	Cogniprise	Oleo	Power to Hydrogen
	Mocean Energy	CarbonLume	LNK Energies
	H Quest Vanguard	Kunin Technologies	Gemini Energy
	Licube	Verdagy	ZettaJoule
2:45 pm	**Break**		
3:00 pm	**TEX-E Student Energy Innovation Companies** **Sandy Guitar,** *Executive Director*, TEX-E		
	Resonant Thermal Systems	Srijan	Quas (Cocarbon)
	Quantum Power Systems	GOES	
3:45 pm	**Company Presentations C | Innovations for Traditional Energy, Electricity, & the Grid**		
	CORROLYTICS	Capwell Services	Grid8
	Vycarb	Daphne Technology	ATS Energy
	Pix Force	SPOTLIGHT	LAVA Power
	Ionada Canada	Tierra Climate	PolyJoule
4:30 pm	**Keynote Fireside Chat** **Melanie Nakagawa,** *Chief Sustainability Officer,* Microsoft **Brad Burke,** *Associate Vice President*, Rice Innovation; *Executive Director*, Rice Alliance for Technology and Entrepreneurship		
4:50 pm	**Awards Ceremony** **Most Promising Awards** **John Reale, Jr. (JR),** *Managing Director for Startups and Investor Engagement, Rice Alliance for Technology and Entrepreneurship* **Melanie Nakagawa,** *Chief Sustainability Officer,* Microsoft **Startup World Cup** **Justin Jackson,** *Partner,* Pegasus Tech Ventures **Lawrence Berg,** *Associate Investor,* Pegasus Tech Ventures **TEX-E Prize** **Sandy Guitar,** *Executive Director*, TEX-E		
5:20 pm	**Closing Remarks** **John Reale, Jr. (JR),** *Managing Director for Startups and Investor Engagement, Rice Alliance for Technology and Entrepreneurship*		

THANK YOU JUDGES

ENERGY VENTURE DAY AND PITCH COMPETITION | 2026

Energy Venture Day Pitch Competition | McKinney Balcony, 2nd Level, George R. Brown Convention Center

Day 2 | Wednesday, March 25

Mussadiq Akram, *Vice President of Utility Strategy*, CenterPoint Energy

Joey Bernica, *Director*, Climate Investment

Lorraine Chambon, *Business Development Manager*, Technip Energies

Keith Frame, *Advisor, Technical Services | Global Projects*, ConocoPhillips

Matt Hill, *Senior Investment Manager*, Equinor Ventures

Don Kendall, *Managing Director and CEO*, Kenmont Capital

Casey Klein, *Senior Business Development Advisor, Renewables & Emerging Tech.*, Marathon Petroleum

Brian Lee, *Partner*, Baker Botts

Megan Lund, *Innovation Advisor | Tech & Innovation Partnerships Manager*, Woodside Energy

Shobhana Mani, *VP for Innovation and Digital Science*, bp

Sharief Moghazy, *Business Development Manager*, Shell Ventures

Abdalla Osman, *Investment Analyst*, bp Ventures

Sweng Ow, *Technology Principal*, Eni Next

Brandon Polander, *Senior Advisor, Circular Economy & Renewable Fuels LCA*, Phillips 66

Raj Rapaka, *Digital Transformation Advisor, Strategy & Innovation, Global Projects*, ExxonMobil

Wade Rodgers, *Technology Development Engineer*, Oxy

COMPANY **DIRECTORY**

Agellus Tank Robotics | Houston, Texas

agellustankrobotics.com

Agellus Tank Robotics (ATR) is a data-driven robotic tank maintenance and asset intelligence company transforming how aboveground storage tanks (ASTs) are inspected, cleaned, repaired, and monitored. ATR deploys a fleet of HazLoc-certified, in-service robotic systems that eliminate the need to drain and degas tanks, dramatically reducing downtime, cost, and safety risk. Unlike traditional methods that require weeks of outage and large confined-space crews, ATR integrates certified robotics, field operations, and a cloud-based data platform to deliver real-time digital twins, predictive analytics, and decision-support insights. By combining robotics-as-a-service with asset intelligence, ATR helps energy and industrial operators reduce operational risk, improve HSE outcomes, lower total maintenance costs, and extend the economic life of critical storage infrastructure in a +$20B global tank integrity market.

Kweku Sekyiamah: Ksekyiamah@agellussolutions.com

Airovation Technologies | Modien Maccabim Reut, Israel

airovation-tech.com

Airovation is a climate-tech company developing scalable carbon capture, utilization, and storage (CCUS) solutions based on CO2 mineralization. The company converts industrial CO2 emissions and mineral waste streams into valuable low-carbon materials, enabling hard-to-abate industries such as cement, steel, chemicals, and fertilizers to decarbonize cost-effectively. Airovation s technology is designed for pilot-to-commercial deployment within existing industrial sites, supporting circular economy models, carbon reduction targets, and long-term industrial sustainability.

Marat Maayan: marat@airovation-tech.com

Ammobia | San Francisco, California

ammobia.co

Ammobia's technology drastically reduces the capital expenditure (capex) and increases the flexibility and safety of ammonia production, enabling low-cost clean solutions to decarbonize current ammonia use cases.

Karen Baert: karen@ammobia.co

Anax Power | Wharton, New Jersey

anaxpower.com

The 500 kW Anax Turboexpander (ATE-500) harnesses wasted energy in natural gas regulating stations to generate clean electricity. This patented, efficient addition to existing infrastructure enables utilities, pipeline operators, energy-intensive industrials, universities, and others with the opportunity to profit from this groundbreaking technology. We showcase the ATE-500 s real-world performance at a field demonstration laboratory in Johnsonburg, PA. Operating Agreements with Enbridge will deploy the ATE-500 in Pennsylvania and Ontario, adding up to 3.5 MW of clean energy, powering modular, off-grid data centers while reducing emissions and optimizing energy use. The ATE-500 maximizes performance, safety, and efficiency while minimizing cost and maintenance.

Michael Longo: mlongo@anaxpower.com

Armeta | San Francisco, California

armeta.ai

Armeta AI is a U.S.-based engineering intelligence company transforming how industrial assets are designed, validated, and modernized. We use domain-trained AI to convert complex engineering drawings such as P&IDs into structured, decision-ready data. Our platform automates material take-offs, detects specification inconsistencies, manages revisions, and creates audit-ready digital records from legacy PDFs. By reducing manual engineering effort by up to 8x and eliminating procurement waste, Armeta helps operators and EPCs improve capital efficiency, compliance, and brownfield modernization. Backed by Alchemist Accelerator, we are building the foundational data layer for next-generation process plants.

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Arolytics | Calgary, Alberta, Canada

arolytics.com

Arolytics: AI-Powered Methane Intelligence for Operational Excellence in the Energy Sector. Our AroIQ solution leverages existing oil and gas SCADA data for 24/7 emissions detection, automated duration reporting, and emissions event root-cause analysis. The result: lower compliance costs, improved operational efficiency, and stronger abatement strategies, repurposing existing data collected on-site (SCADA) without any additional hardware or field visits required. Beyond emissions, AroIQ enables predictive maintenance and asset integrity workflows that can drive material OPEX savings by identifying abnormal operating conditions earlier and improving maintenance planning. Leading North American operators are using AroIQ to integrate SCADA into emissions and environmental workflows, streamline regulatory reporting, improve SCADA data quality, alert response, and scale methane reductions with repeatable, auditable analytics.

Liz O'Connell: liz.oconnell@arolytics.com

ATS Energy | Loveland, Colorado

ats.energy

At ATS Energy, we have developed the world s first Solid State Generator (SSG), an Earthshot Award winning technology that converts industrial waste heat into clean electricity with no moving parts. The system has been successfully demonstrated and validated through the U.S. Department of Energy s Industrial Technology Validation program.

Doug Hudson: doug.hudson@ats.energy

Ayrton Energy | Calgary, Alberta, Canada

ayrtonenergy.com

Ayrton Energy is making hydrogen (H2) logistics easy, unlocking its potential as a scalable and sustainable energy source. Traditional methods of H2 storage and transportation face significant challenges, including H2 loss, pipeline corrosion, and costly specialized equipment. Ayrton Energy s breakthrough electrochemical Liquid Organic H2 Carrier (e-LOHC) technology provides a practical, efficient, and cost-effective solution that is fully compatible with existing liquid fuel infrastructure. Our proprietary e-LOHC technology comes at a pivotal time for the global H2 market, poised to eliminate these logistical limitations and foster widespread adoption.

Natasha Kostenuk: nkostenuk@ayrtonenergy.com

Capwell Services | Houston, Texas

capwell.org

Natural gas is emitted to the atmosphere during oil and gas operations through process and safety vents. Operators want to capture this wasted gas for its revenue potential and to lower their emissions. Currently, there are no cost-effective solutions to capture low-flow vents (<50 MCFD), resulting in 300,000+ well pads and compressor stations across North America venting $1.2-1.5B of gas annually. Capwell's patented process captures these vents at half the cost of traditional solutions, increasing operators revenue by returning gas to sale and allowing them to comply with regulations. We are currently deploying our commercial unit for pilots with operators.

Andrew Lane: andrew@capwell.org

CarbonLume | Toronto, Ontario

carbonlumetech.com

CarbonLume is a Canadian climate-tech and advanced materials company commercializing the world s first patented light-driven methane conversion platform that transforms waste methane into high-value carbon nanotubes (CNTs) and clean hydrogen with no direct CO2 emissions. Our modular, scalable reactors enable on-site deployment at oil and gas facilities, turning waste methane into battery-grade CNTs and low-carbon hydrogen while monetizing emissions reductions and carbon credits. By targeting CNT production at a fraction of conventional costs and producing dual high-value outputs, CarbonLume unlocks profitable decarbonization for hard-to-abate industries. Backed by early traction, strategic partnerships, and a clear path from pilot to commercial-scale deployment, we are redefining how methane is utilized converting an environmental liability into a scalable, revenue-generating clean materials and energy solution.

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ChainWeave | Albuquerque, New Mexico

chain-weave.com

Our datacenter dynamic cooling system uses deep reinforcement learning (DRL) to autonomously manage complex thermal environments. By analyzing real-time data from microsensors, the DRL agent continuously learns and optimizes airflow and temperature adjustments. Unlike traditional static systems, this approach scales with high-density AI workloads, preventing hotspots while drastically reducing energy consumption and PUE. This innovation addresses the “AI bottleneck” by aligning advanced compute power with sustainable, intelligent infrastructure, providing a high-moat solution for both commercial hyperscalers and dual-use national security applications.

Tom Chepucavage: tom@chain-weave.com

Cogniprise | Katy, Texas

Cogniprise.ai

We develop AI Agent based intelligent systems to increase safety, efficiency, profitability and sustainability in process manufacturing operations. They monitor, analyze, and optimize operations in real-time, in Refineries, Chemicals, Midstream, LNG, Gas Processing, Oil & Gas, Utilities/Power, Solar. We are business partners of Microsoft, IBM, Nvidia and Aveva (Schneider). Have filed a Provisional Patent related to Autonomous Operations. Our AI products assist plant personnel in their end to end daily workflows e.g. : 1) Give experienced advice to Board Operator in the Control Room 2) Monitor Asset Health and Predict Asset Function failure 3) Optimize plant production planning and execution. The founders have bootstrapped this company, raised $350,000.

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CORROLYTICS | Houston, Texas

corrolytics.com

CORROLYTICS is a clean-tech company developing a field-deployable platform to detect and differentiate microbiologically influenced corrosion (MIC) in real time. Our patented electrochemical sensors, consumable test kits, and cloud analytics enable operators to validate mitigation effectiveness, reduce chemical overuse, and prevent costly asset failures. The technology supports predictive maintenance and longer asset life across oil & gas, water, and industrial infrastructure. CORROLYTICS has completed paid pilots with major industry partners and is advancing toward commercial deployment with government and strategic backing.

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Cybereum | Austin, Texas

cybereum.io

Cybereum translates rigorous project-delivery research and technology into enterprise software that materially reduces schedule and cost uncertainty on complex capital programs. Internally, we build in tight loops with practitioners (owners, EPCs, and project controls leaders): we ingest real schedules and controls data, diagnose failure modes in the prerequisite logic, and ship improvements that make the operational picture more decision-grade and more actionable. Our core belief is that better reporting doesn't fix megaprojects better governance does. We enable the shift from fragmented point tools and static status reporting toward an integrated, auditable decision layer that connects schedule logic, cost/controls, risk, and commissioning/work packaging into a single operational model teams can trust. This shared project truth enables earlier detection of bottlenecks, clearer decision triggers, and coordinated mitigations across stakeholders exactly where complex projects typically break down.

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Daphne Technology | HQ: Lausanne, Switzerland
US Office: Houston, Texas

daphnetech.com

Daphne Technology develops products to measure and reduce methane and other regulated pollutants. Our primary product, SlipPure, uses our patented plasma-catalytic technology to remove methane slip while also reducing carbon monoxide, formaldehyde and nitrogen dioxide from engine exhaust. This enables customers to comply with environmental regulations and meet emission targets. While our current focus is midstream operators using 4-stroke lean-burn natural gas engines, our core technology is flexible and can be adapted to other engine types and applications. Headquartered in Switzerland, with offices in Houston and Singapore. Daphne Technology s management team has decades of relevant industry experience. The company is currently raising a Series C Round and has a lead with tail investment opportunities available.

Jamie Brick: jamie.brick@daphnetech.com

Energytech | Houston, Texas

Energytech Nexus

energytechnexus.com

Energytech Nexus is commercializing AI powered technology search and evaluation solution for the energy industry built on top of proprietary data. Built for engineers, innovation leaders, and business leaders, we help them quickly identify, compare, and validate the best-fit technologies without spending months digging through fragmented technical PDFs, vendor pitches, conferences, and databases. Our system combines domain-specific data pipelines with machine learning and agentic analysis to generate a structured landscape, build a tailored evaluation framework, and accelerate connection between innovators and industry. Innovators get a ranked shortlist of industrial strategic partners; industry has a landscape understanding of the solutions best fit for them. Energytech Nexus reduces research cycles, saves hundreds of hours of engineering time, and improves decision confidence so teams can allocate capital faster and deploy technology with less risk. By transforming fragmented global innovation data into structured, decision-ready intelligence, we drive competitive advantage to our participants.

Jason Ethier: jason.ethier@energytechnexus.com

ENP Technologies | Houston, Texas

ENP Technologies
Partners In Growth & Innovation

uniieq.com

UNIIEQ (Industrial Equipment Catalog) is a neutral, interoperable industrial equipment metadata platform that standardizes equipment metadata across operators, manufacturers, and EPCs. Today, equipment data is fragmented across PDFs, spreadsheets, and siloed systems, leading to rework, delays, and hidden operational risk. UNIIEQ creates a trusted, reusable equipment catalog where data is validated once and shared securely across stakeholders. By improving data consistency and traceability, UNIIEQ reduces lifecycle inefficiencies and enables operational systems, Digital Twin, reliability, and AI initiatives. The platform is designed for multi-operator collaboration and is being deployed through strategic industry pilots supported by institutional partners.

Pranav Tiwari: pranav.tiwari@enptechnologies.com

Gemini Energy | San Francisco, California

GEMINI
ENERGY

gemini.energy

Gemini Energy converts industrial waste gas into clean electricity or pure H2 using breakthrough ion-pair membrane technology exclusively licensed from Los Alamos National Laboratory. Our dual-mode electrochemical platform maintains 45-60% efficiency across 5-100% hydrogen concentrations where competing technologies fail, enabling us to process near-zero-cost waste streams from refineries and petrochemical plants. We deliver clean, on-site power for AI data centers at 40-60% below natural gas costs while eliminating >5 year grid wait times, or recover pure hydrogen for industrial use. Validated through Nature Energy publication with $20M+ contracts in negotiation and Fortune 500 partnerships. Transforming $45B/year of wasted energy into profitable, zero-emission power.

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GOES (TEX-E) | Atlanta, Georgia

GOES mission is to address industrial decarbonization and heat waste from data centers through specialized greenhouses, while enabling Carbon Capture, Utilization and Storage. GOES redirects CO2 emissions from our customers, such as ethanol and biofuel producers, into a specialized greenhouse where it is photosynthesized by plants. Greenhouses also require immense amounts of heat to sustain plant life. Our venture utilizes heat waste from data centers to warm the greenhouse. Consequently, the greenhouse will produce a wide variety of highly profitable and carbon-negative crops such as industrial hemp, biomass for biochar, or fresh produce and greenspace for local communities.

Jules Seay: js361@rice.edu

Grid8 | Phoenix, Arizona

Grid8 is building an AI-driven platform that simulates real-world grid conditions to identify faster, cheaper interconnection paths and pairs it with long-duration energy storage hardware (via its EarthEn subsidiary) to deliver 99.999% uptime behind-the-meter. Think: full-stack energy infrastructure for AI data centers and industrial loads.

Manas Pathak: manas@grid8.ai

grid8.ai

H Quest Vanguard | Pittsburgh, Pennsylvania

H Quest is redefining how we use natural gas, generate clean, low-cost hydrogen, and, most importantly, supply crucial carbon materials for the needs of the automotive, energy storage, and defense industries. H Quest s modular, electrically powered systems instantaneously heat and decompose abundant natural gas into high-performance carbon black, a key material in automotive tires and EV batteries (and 40 other verticals), and into sustainable by-product hydrogen, priced to enable decarbonization at small- to medium-scale: SAF manufacturing, heavy-duty trucking, and industrial heat. Each 1 tonH2/day containerized unit would eliminate 5,000 tons of CO2 emissions while generating more than $1M in EBITDA and delivering >50% annual return before any government subsidies or tax credits. With 16 granted patents, field pilot deployments (Peoples Gas), and validation programs for EV batteries (Japanese CB manufacturer) and tire applications (Goodyear), H Quest is completing commercialization and preparing for FOAK deployments in 2027.

George Skoptsov: george.skoptsov@h-quest.com

h-quest.com

intcom | Rio de Janeiro, Brazil

intcomdigital.com

intcom is a technology startup recognized globally for its pioneering role in Health, Safety, and Environment (HSE) and Human Resources (HR) innovation. Selected as a strategic partner in the SAP Industry Cloud, intcom has earned international credibility by delivering advanced digital solutions that streamline compliance, enhance workplace safety, and modernize HR processes. Its platforms integrate automation, predictive analytics, and centralized management to reduce incidents, optimize workforce performance, and foster a culture of safety and efficiency. With a strong presence in the energy and industrial sectors, intcom combines regulatory alignment with cutting-edge innovation, positioning itself as a trusted partner for sustainable growth and operational excellence.

Alvaro Antunes: alvaro@intcom.com.br

Ionada Canada | Markham, Ontario, Canada

Ionada Canada Corporation

Ionada develops compact, modular, and energy-efficient carbon capture systems using its patented hollow-fiber membrane contactor (HFMC) technology, enabling small-to-medium industrial emitters to capture CO2 at significantly lower cost, with a smaller footprint, and with higher operational efficiency than conventional systems. These emitter are often excluded from CCUS adoption due to the size, energy intensity, and high capital cost of traditional amine-based towers. Supported by strong regulatory pressure and a growing network of industrial partners, Ionada is positioned to accelerate accessible, cost-effective decarbonization across these underserved markets.

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Junipix | Houston, Texas

junipix.com

Junipix is an AI-native regulatory decision engine built for frontline supervisors in high-risk, regulated industries. Safety and compliance break at the moment of decision, not during audits. While legacy systems manage paperwork after incidents, Junipix delivers real-time, source-cited guidance before work begins. We translate dense regulatory frameworks like OSHA into clear, job-specific answers that help supervisors reduce risk, prevent costly violations, and improve safety outcomes. Starting with bottom-up adoption at the supervisor level, we expand across teams and enterprises. Junipix doesn't replace human judgment, it strengthens it with defensible, citation-backed clarity in the field.

Tony Beebe: tony@junipix.com

konsciousplanet.com/
kp-labs

KP Labs | Houston, Texas

KP Labs is building decentralized infrastructure for critical mineral recovery from battery waste, e-waste, and industrial streams. Our modular, low-temperature platform converts waste into stable metal sulfides using a bio-based sulfide process integrated with advanced membrane purification. Unlike centralized smelters, our units operate directly at waste-generation sites reducing fire risk, transport cost, and energy intensity while strengthening domestic supply chains. By enabling scalable, near-site recovery of nickel, cobalt, and copper, KP Labs supports energy transition manufacturing, grid storage growth, and critical mineral security without the capital burden of large recycling facilities.

Varun Garg: varun.garg@konsciousplanet.com

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kunin.tech

Kunin Technologies | Chattanooga, Tennessee

Kunin is a pre-seed startup developing metal separation systems to recover numerous metals from large mines & refineries waste streams. Kunin's core innovation is Ion Exchange systems using functionalized nanofiber that repurpose the proven chemistry of the resin beads used for decades globally in a form factor with 80-90% lower cost. Using this technology, Kunin is designing complete metal recovery circuits to produce gallium, germanium, scandium, rare earths, PGMs, cobalt, nickel, uranium, copper and numerous other metals from waste streams that large mines & refineries ignore today, especially outside of China. Kunin raised $1.8M to build pilot units that validate the performance and cost of functionalized nanofiber systems and has built a team of nanofiber, organic chemistry, hydrometallurgy, and process scale-up experts.

Corey Donovan: Corey@kunin.tech

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lavapower.com

LAVA Power | Sdot Yam, Israel

LAVA is a deep-tech energy company pioneering the first liquid-based isothermal thermodynamic cycle designed to replace conventional steam, ORC, and vapor compression technologies. Its patented breakthrough enables up to 30% higher electrical output in heat-to-power applications and 30 50% higher efficiency in power-to-heating and cooling applications, while reducing capital and operating costs. Built for utility-scale deployment, LAVA s modular technology enhances performance across geothermal, advanced nuclear (SMRs), AI data center cooling, on-site data center generation, and long-duration energy storage. By unlocking more energy from existing infrastructure, LAVA increases grid capacity, improves capital productivity, and strengthens energy resilience.

Doron Tamir: doron@lavapower.com

licube3.com

Licube | Houston, Texas

Licube is a deeptech company developing advanced electrodialysis technology for lithium refining. Born from years of research at Hirosaki University in Japan, Licube s patented technology has proven the ability to produce >99.995% purity space grade lithium hydroxide. This breakthrough level of purity opens new markets including semiconductor, optics, aerospace, solid state batteries, specialty compounds and lubricants, pharmaceuticals, and nuclear fusion applications - all sectors where conventional 99.5% battery grade is insufficient. Licube is preparing for first product sales in January 2026 and is building its first commercial-scale plant in Houston with grant funding from Japan s NEDO agency.

Yohei Kiguchi: yohei.dekiguchi@licube3.com

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lnkenergies.com

LNK Energies | Boston, Massachusetts

LNK Energies is making diesel transportation obsolete. Developed at MIT, our patented breakthrough powertrain system uses a new fuel to decarbonize heavy-duty transportation. Our technology has no added costs, no operational changes, and uses existing fuel infrastructure. It s a true drop-in solution competitive with diesel today, not tomorrow. By unlocking affordable zero-emission transportation, we re on a mission to decarbonize over a gigaton of CO2 and redefine how freight and people move worldwide.

Sayandeep Biswas: sayandeep@lnkenergies.com

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maverickx.com

Maverick X | Austin, Texas

Maverick develops and manufactures advanced chemistry platforms that transform how oil, critical minerals, and metals are extracted from complex geological resources. Our proprietary technologies selectively destabilize mineral and formation structures at the molecular level, increasing recovery, improving flow, and unlocking stranded value without relying on harsh acids or energy-intensive processing. We operate industrial-scale production to manufacture our core molecules and deploy them in enhanced oil recovery, produced water metal extraction, refractory ore processing, and industrial mineral applications. Maverick s approach replaces legacy chemistries with cleaner, more precise, and economically superior solutions for resource production.

Eric Herrera: eric@maverickx.com

MCatalysis | Dallas, Texas

mcatalysis.com

MCatalysis is on a mission to produce low-cost, clean synthetic fuels and chemicals by upcycling waste carbon resources, such as agricultural residues, plastic waste, and waste gas streams. The technology, born out of world-class research from the University of Oxford, utilizes mature, high-efficiency industrial microwave processes combined with next-generation catalysts. This novel approach promises to significantly enhance processing times and product selectivity, yielding more cost-effective and energy-efficient production for a wide range of sustainable fuels and chemicals.

Michael Irwin: irwin@mcatalysis.com

Membravo | Menlo Park, California

membravo.com/

Membravo increases industrial profitability by enabling higher throughput through recovery of valuable products while reducing energy consumption using ultra-durable membrane separation technology. Our proprietary platform operates in high-temperature, high-pressure, and chemically aggressive environments where conventional systems fail, unlocking applications across oil and gas, chemicals, hydrogen, helium, semiconductors, and pharmaceutical manufacturing. The technology supports both gas and liquid separations and is designed as a drop-in replacement for existing infrastructure, enabling rapid deployment with minimal process changes. Membravo is a spinout from SRI International and an Activate Fellowship company with early revenue and pilots underway with industrial partners to scale commercialization.

Joe Sawa: joe@membravo.com

Mirico | Oxford, Oxfordshire

mirico.com

Mirico provides continuous, site-wide methane emissions intelligence for the oil and gas sector using a patented dual-laser sensor capable of scanning up to 1 km and capturing both persistent and intermittent emissions missed by drones, satellites and OGI inspections. Our system delivers full-site scans every five minutes, detects leaks below 0.5 kg/hr and pinpoints sources within five metres. Advanced atmospheric modeling quantifies emissions accurately and supports OGMP 2.0 Level 5 reporting. Proven across customer sites globally, Mirico enables operators to cut emissions, reduce LDAR costs, prevent lost product and meet tightening methane regulations.

Stuart Bonthron: stuart.bonthron@mirico.com

Mitico | Pasadena, USA, California

Mitico develops and commercializes accessible carbon dioxide (CO2) capture solutions that help industrial partners cut CO2 emissions, improve operating economics, and create durable competitive advantage in a decarbonizing global economy. Designed for integration into existing industrial infrastructure, our modular system reduces energy intensity and capital expenditure compared to conventional carbon capture approaches.

mitico.tech

Clement Cid: clement@mitico.tech

Mocean Energy | Edinburgh, Scotland, Office in Houston, TX

Mocean Energy provides green energy for the Blue Economy. Our hybrid wave + solar + battery systems deliver reliable, clean power for offshore and coastal industries helping customers decarbonize and save tens of millions in costs. Mocean s technology has been proven with 18 months of real-sea testing, and we re working with blue-chip customers on high-value projects.

mocean.energy

Cameron McNatt: cameron.mcnatt@mocean.energy

Monitorai | Curitiba, Paran, Brazil

Monitorai is a Brazilian technology startup focused on digitalizing the management and maintenance of critical assets across industrial and utility operations. Our solution integrates intelligent sensing, IoT data acquisition and AI-based analytics to enable real-time condition monitoring, anomaly detection, and predictive maintenance. The platform features operational dashboards, georeferenced asset visualization, automated reporting, and future digital twin integration, enabling companies to reduce failures, optimize maintenance decisions, and enhance asset reliability. Monitorai is currently conducting two R&D projects in partnership with Samarco (mining) and Petrobras (oil and gas), and is advancing toward scalable deployment across other industrial sectors.

monitorai.com.br

Diego Bertolini: bertolini@monitorai.com.br

Mote | Los Angeles, California

Mote, Inc. is pioneering the future of carbon-negative energy by transforming forestry and agricultural waste biomass into clean hydrogen and hydrogen products and permanently removing CO2 through geologic storage. While supporting healthier forests and rural economies, Mote s technology enables rapid deployment across a broad range of markets, with advanced projects in California and an Advanced Testing Center in Los Angeles, where Mote is headquartered.

motehydrogen.com

Ashleigh Ross: ashleigh@motehydrogen.com

NANOS | Belo Horizonte, MG, Brazil

snanos.com.br

NANOS is an innovative startup focused on developing new graphene-based materials for various industrial sectors, including lithium-ion batteries. This technology is widely used in stationary energy storage systems such as UPS systems and electronic devices such as drones and observation submarines that oil companies can use to monitor the quality of their onshore and offshore infrastructure.

Fernanda Vieira: fervieira2001@gmail.com

New Horizon Oil and Gas | Houston, Texas

newhorizonoilandgas.com

Proven oil and gas explorers and developers have a self-generated portfolio of conventional drilling prospects totaling 1.14 trillion cubic feet of natural gas and 80 million barrels of condensate in Southern Louisiana and Texas, in areas known for major discoveries in the 1950s and 1960s. Using advanced 3-D seismic technology unavailable during earlier development, we identified overlooked reserves. The prospects are located near existing pipelines and gas-fired power plants with excess capacity, supported by rising demand from U.S. LNG exports and expanding data center electricity needs. Conservative estimates project more than $6 billion in revenue from the initial ten prospects.

Pablo Eisner: pablo_eisner@yahoo.com

OCOchem | Richland, Washington

ocochem.com

OCOchem is the world leader in developing and industrially scaling advanced CO2 electrolyzer systems than convert CO2 and water into formate precursor chemicals that are more affordable and sustainable. Since opening our lab in 2020, OCOchem has scaled its technology by a factor of 6000x, built the world's largest electrolyzer cells (1.5 m2) and built a 60 tpy pilot plant. Product shipments started in 2025 and OCOchem is building a commercial-scale facility with the world's largest biochemical producer, ADM, in Decatur, IL. OCOchem's formate replaces problematic chemicals with high life cycle waste handling costs like inorganic acids, grey syngas, fossil fuels, and simple sugars to recover critical minerals, safely transport syngas, replace anti-biotics and make thousands of different biochemicals. OCOchem's Carbon FluX Electrolyzer is modular and can be rapidly deployed anywhere customers and partners have access to CO2, water, and electricity.

Todd Brix: toddbrix@ocochem.com

Oleo | Berkeley, California

oleo.earth

Oleo is an early-stage biomanufacturing company converting biomass waste into oil feedstocks for advanced fuel production, addressing a $21B global oil feedstock market. Oleo reduces cost exposure and improves supply chain stability for energy producers, with a targeted ~22% cost reduction relative to incumbent seed oils. The technology was developed by the founders at Stanford University, and has been scaled to the 300L setting at Lawrence Berkeley National Laboratory, achieving a TRL 5. Oleo s founders bring expertise in manufacturing and new product development from industry, large-scale project deployment from military operations, and are supported by a technical team with 12+ years of combined bioprocessing experience.

Kelly Redmond: kelly@oleospos.com

Pix Force | Porto Alegre, Rio Grande do Sul

pixforce.com

Pix Force specializes in proprietary Artificial Intelligence algorithms for Computer Vision, leveraging Machine Learning and Deep Learning to automate the interpretation of images (photos and videos) for inspection and monitoring. We deliver scalable, high-precision solutions to major corporations in sectors like energy, mining, and O&G, ensuring process automation and strategic decision-making based on structured visual data.

Renato Gomes: editais@pixforce.ai

PolyJoule | Billerica, Massachusetts

polyjoule.com

PolyJoule converts natural gas derivatives into conductive polymer batteries a fundamentally safe, self-extinguishing technology that uses no metals, no rare earths, and a fully domestic U.S. supply chain. The company has produced over 25,000 cells, scaled from milligrams to metric tons, and deployed MW-scale systems across three continents with 450M+ cumulative operating hours, backed by 30 patents, 10+ certifications, and underwriting from one of the world's largest insurance carriers. PolyJoule targets New York's City's ~$5B energy storage market, where Li-ion safety failures have stalled 1 GW of financed projects and triggered moratoriums covering half the state despite $775M in subsidies and short ROI's. With a capital-light model, hybrid hardware-plus-ARR revenue, and a team of battery industry veterans, PolyJoule intends to become the largest operator of energy storage in New York before 2030 and set a new paradigm for urban-dense energy storage worldwide.

Eli Paster: eli.paster@polyjoule.com

Power to Hydrogen | Columbus, Ohio

power-h2.com

Power to Hydrogen is revolutionizing clean energy with advanced AEM electrolysis technology. We provide the sole low-cost solution to hydrogen production that integrates directly with variable, renewable energy, which will allow us to completely decarbonize the high-polluting industrial process. Our breakthrough reduces the electrolysis stack cost by ~65% by eliminating the need for expensive and supply chain constrained metals such as iridium, titanium, platinum, and gold. In addition to low-cost materials, the technology can produce hydrogen at 250 bar which can solve the cost challenges created from compressing and transporting hydrogen.

Paul Matter: paul@power-h2.com

Predyct | Houston, Texas

predyct.io

Predyct is building the structural intelligence layer for wind energy. Our NanoX platform transforms wind turbine blades into continuously monitored, data-driven assets using drone-deployed wireless sensors and cloud-based AI analytics. Unlike inspections or SCADA systems that provide limited snapshots, NanoX delivers 24/7 visibility into blade structural dynamics, detecting early signs and progression of delamination, disbonding, large cracks, imbalance, and lightning damage before failures occur. By converting high-frequency sensor data into actionable alerts and fleet-level risk insights, Predyct enables operators, OEMs, and service providers to reduce unplanned downtime, extend asset life, lower repair costs, and improve annual energy production. As turbines grow larger and offshore exposure increases, structural risk becomes exponentially more costly. Predyct is developing a scalable, fleet-wide intelligence platform designed to power predictive maintenance across the global wind industry.

Himanshu Maheshwari: himanshu@predyct.io

Quantum Power Systems (TEX-E) | Austin, Texas

ati.utexas.edu/company/quantum-power-systems

QPS Nanoinverter efficiently and reliably converts DC power from solar panels into AC power. Nanoinverter utilizes low-voltage Gallium nitride transistors that switch at 500kHz, leading to 66% smaller and 1% more efficient than any microinverters in the market. Due to Nanoinverter s plug-and-play architecture, the rooftop solar installation time is reduced by 40%. Elimination of junction boxes, rapid shutdown devices, and central inverters, lowers the overall cost and increases the reliability of Nanoinverter based solar PV system by 50% compared to DC optimizers. The potential customers for this innovative solution are homeowners and rooftop PV installers.

Saleh Farzamkia: farzam@utexas.edu

Quas (Cocarbon) (TEX-E) | Austin, Texas

cocarbon.pe

Quas is developing integrated agricultural waste-to-water treatment systems based on proven activated carbon technology from our Peru operations. We produced 100,000 kg serving major industrial customers including Petroperu, demonstrating the technical and commercial viability. Our concept will adapt this proven process for Texas cotton gin waste, creating the first system that eliminates agricultural disposal costs while providing industrial water treatment. The technology is well-established in developed countries, making US implementation straightforward. We're leveraging networks across Peru, Europe, and the US to bring this concept to reality, targeting deployment of our first system within 18 months.

Aldo Galli: gallioaldo@gmail.com

Resonant Thermal Systems (TEX-E) | Houston, Texas

greentownlabs.com/members/resonant-thermal-systems

Resonant Thermal Systems (RTS) is a Rice University spin-out developing modular, membrane-free desalination technology for off-grid water production and critical mineral recovery. The company is currently based at Greentown Labs Houston and is led by Will Schmid, Ph.D. (CEO), Sina Nazifi, Ph.D. (CTO), and Alessandro Alabastri, Ph.D. (CSO), whose combined backgrounds span electrical engineering, mechanical engineering, and photothermal systems design.

William Schmid: william.schmid@rice.edu

Salem Robotics | Austin, Texas

salemroboticsinc.com

Salem Robotics builds nuclear-native software that allows robots already inside nuclear facilities to perform routine radiological surveys autonomously. Today, these mandatory surveys are conducted manually by technicians, constrained by exposure limits, staffing shortages, and documentation burden. Salem s platform enables robots to navigate facilities, execute survey routes, collect radiation data, and generate compliance-ready digital records. Salem s product removes humans from harm s way, increases operational efficiency, improves data consistency, and reduces labor strain. We are initially targeting U.S. commercial nuclear power plants and then, government, decommissioning, advanced reactor markets, and eventually expanding into adjacent industrial domains (hazardous chemical, biological, oil, gas, etc).

Janak Panthi: Jpanthi@utexas.edu

Sotaog | Houston, Texas

sotaog.com

Sotaog is real-time execution SaaS powered by AI reasoning within physical constraints for asset-intensive industries. We expose where operations fail to convert into cash, predict where leakage will occur, and close those gaps through real-time and forward implementation across assets. By driving execution not just insight Sotaog continuously aligns operational decisions with financial outcomes. Our platform typically delivers ~20%+ improvements in operating cash flow while reducing waste, energy intensity, and emissions, enabling industrial operators to run at their highest performance potential.

Sarah Tamilarasan: sarah@sotaog.com

SpotLight | Paris, France

spotlight-earth.com

SpotLight is a predictive monitoring company that makes CO2 storage safer, cheaper, and more bankable. Our patented spot seismic and 1D time-lapse technologies deliver high-frequency, low-footprint subsurface surveillance from pre-FID through injection and long-term stewardship. By turning monitoring into a strategic tool rather than a regulatory cost, we help operators phase capital, reduce risk, accelerate permitting, and build regulator and community trust. With projects across North America, Europe, and Australia, SpotLight is becoming the monitoring backbone of the emerging CCS industry, enabling storage to scale reliably to the gigaton era.

Habib Al Khatib: habib@spotlight-earth.com

Srijan (TEX-E) | College Station, Texas

srijanllc.com

Srijan is developing N800 semiconductor neutron detectors to enable next generation of energy, space, health, and defense systems. The current 80-year-old technology cannot operate above 300 C, lacks spatial resolution, and faces cost challenges. Our N800 sensors can operate up to 800 C, are 40x smaller, and provide 16x better resolution. With advanced reactors deploying in 2027-2028 for data centers, the demand is urgent. Our semiconductor innovation serves nuclear power, oil/gas, health, space, and defense markets. Our patent-pending technology has measured strong customer validation (2/3rd interviewed interested). Our business plan with a strong team is posed to quickly yield high-margin.

Kavin Kasimani: kavin.kasimani@tamu.edu

Tierra Climate | Houston, Texas

tierraclimate.com

Tierra Climate is building the Power Trading Superintelligence layer for clean energy portfolios. As electricity markets grow more volatile and complex, enterprises deploying batteries and renewables need advanced tools to manage risk, capture market upside, and meet sustainability goals. Tierra delivers an AI-powered command center that integrates forecasting, stochastic optimization, and automated market execution into a single platform. Designed around the human workflow, our software provides clear signals, transparent recommendations, and full operational control. Built by former power traders, Tierra helps energy teams operate grid-scale storage and clean energy assets with speed, confidence, and measurable performance.

Jacob Mansfield: jacob@tierraclimate.com

ToluAI | Manhattan, New York, New York

Toluai.com

ToluAI transforms raw infrastructure data into competitive intelligence for the high-stakes energy sector. Our Silex engine replaces passive monitoring with station-level prescriptive action and advanced scenario modeling, synchronizing predictive load forecasting with real-time climate-risk mitigation. By stress-testing assets against thousand-year weather events and shifting load profiles, we allow utilities and datacenters to out-maneuver grid volatility before it hits the balance sheet. We've automated the decision-making workflows I once led manually, giving customers the foresight to de-risk capital siting and guarantee mission-critical uptime in an increasingly volatile climate.

Tosin Joel: Tosin@toluai.com

Verdagy | Moss Landing, California

verdagy.com

Verdagy delivers the world s lowest cost clean hydrogen, achieving $3/kg today and $2/kg by 2028 unlocking profitable decarbonization for ammonia, aviation and marine fuels, and refining. Verdagy s electrolyzers offer the industry s widest dynamic range for real time renewable pairing, zero system degradation, zero stack replacements over a 25 year plant life, and the highest current densities to reduce Capex and Opex. Verdagy has produced hydrogen for four years at its US plant and is selling hydrogen commercially since 2025, operates a 1GW+ electrolyzer factory, and is developing a 60MW project in Texas. Verdagy expects to book over $100M in 2026 and has a $5B global pipeline.

Rahul Bammi: rbammi@verdagy.com

Via Separations | Watertown, Massachusetts

viaseparations.com

Via Separations delivers operational cost savings and de-bottlenecking to industrial manufacturers by replacing heat-based separation with filtration. The team recently completed a pilot with a major US refinery and is delivering a similar scale system this year in another refining vertical. In addition, Via has operated a commercial scale facility for 18 months in the pulp & paper sector, improving the customer's operations and proving the technology at scale.

Shreya Dave: sdave@viaseparations.com

Vycarb | Brooklyn, New York

vycarb.com

Vycarb is pioneering a new category of permanent CO2 storage that is infrastructure-light and widely-accessible by accelerating the ocean s natural carbon chemistry. Using a proprietary chemical processing system and real-time sensing, our technology converts CO2 into stable dissolved bicarbonate, the ocean s largest carbon sink. The result is safe, permanent, fully-measured CO2 storage, enabling carbon removal credit sales to buyers such as Stripe and Milkywire and permanent on-site storage for industrial emitters. We have demonstrated the technology through multiple field pilots, including at the Brooklyn Navy Yard, and have raised over $10M including from partners Shell, Idemitsu, Rio Tinto, and MOL.

Garrett Boudinot: garrett@vycarb.com

ZettaJoule | Houston, Texas

zetta-joule.com

ZettaJoule is a Texas-based advanced nuclear company developing a high temperature gas reactor (HTGR) that delivers up to 950 C process heat (600 C higher than conventional water-cooled reactors) plus firm electricity. We're the only Western advanced small modular reactor company modernizing the established, publicly available technology of Japan's High Temperature Engineering Test Reactor. Our HTGR will be built by the only team that has designed, built and operated an advanced Small Modular reactor in the West. These capabilities unlock transformative energy solutions across key sectors, including oil and gas, data centers, and e-fuels. Our initial focus is Gulf Coast refinery industries where clean high-temperature heat is highly valued. We are building in Texas to pair first deployments with the region s unmatched industrial demand, project execution ecosystem, and workforce depth.

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