

10NetZero Houston, Texas

10NetZero is focused on solving problems for energy asset owners by leveraging bitcoin as a solution -From monetizing stranded resources and underutilized assets, to increasing oil recovery or reducing pipeline restraints, to improving emissions profiles. 10NetZero works with their customers to develop a solution and business model that works for them, based on their risk profile, capex restraints, and asset portfolio. 10NetZero aims to create value for their customers first, and develop successful projects that everyone can participate in. The energy industry is exceptionally inefficient and 10NetZero's vision is to help reduce wasted energy to zero.

<u>http://www.10netzero.com</u> Joel Fulford | joel@10netzero.com

ORDERING SCIENCES

AlphaX Decision Sciences Houston, Texas

AlphaX is an energy AI software company disrupting what is possible through next generation technology. Just as Google Maps enabled new applications not possible with paper maps, AlphaX's software similarly enables expanding applications of production forecasting, drilling, and completions optimization for new stakeholders to access information and allow existing stakeholders to access answers to their most difficult questions working with future scenarios in real time. Founded in 2017, AlphaX has been revenue generating since inception. We are seeking customers looking to leverage their data infrastructure investments into sustainable competitive advantage.

http://www.alphaxds.com

Sammy Haroon | sammy@alphaxds.com



American Hydrogen Tulsa, Oklahoma

American Hydrogen is a developer of hydrogen generation facilities. We have created a platform that integrates project management, engineering, manufacturing, construction management, and asset operations. The result is a project execution solution designed to meet the growing needs of the hydrogen economy. Leveraging our experience in petrochemical processing, we have created a patentpending process that integrates steam methane reformation with a chemical-based carbon capture system. These systems are designed to accept a wide range of feedstocks including natural gas and other biofuels, such as RNG.

<u>http://www.amhydrogen.com</u> Stephen Brooks | sbrooks@amhydrogen.com

anessa

anessa Fredericton, Canada

anessa is a software company with innovative computer simulation technologies in the rapidly growing area of anaerobic digestion and renewable natural gas (biogas). Our platforms accurately predict project feasibility and production performance. Through our leading-edge technology, we contribute to the success of biogas projects as a clean energy solution while removing methane gas that is 30x more harmful to the environment than CO2. We have two products in the market: AD•A helps biogas project developers assess the feasibility of their projects; and AD•O enables biogas plant facility operators to achieve optimal operations by taking the guesswork out of decision-making.

> <u>http://www.anessa.com</u> Amir Akbari | aakbari@anessa.com



Arolytics Calgary, Canada

Founded in 2018, Arolytics is an emissions software and expert services company that specializes in emissions management, ESG performance, and regulatory compliance for the oil and gas sector. With proprietary algorithms and emissions modelling, Arolytics' AroViz and AroFEMP software platforms optimize oil and gas sector emissions data management and disclosure, saving companies up to 40% on their associated measurement costs via the design and management of intelligent emissions programs. At Arolytics, we enable companies to become industry leaders in emissions management.

<u>https://www.arolytics.com</u> Liz O'Connell | liz.oconnell@arolytics.com



Atargis Energy Clean Energy Accelerator, Class 2 Pueblo, Colorado

Atargis Energy has developed an innovative twin hydrofoil-based wave energy converter that has the ability to deliver affordable, \$0.06 per kWh, electric power at grid-scale from ocean waves. \$500 billion TAM, eliminating 0.6 billion tons of CO2 per year. The company's submersible cycloidal wave energy converter (CycWEC) features a proprietary feedback control system that combines real-time sensors, predictive algorithms, and machine learning to automate control of the device to enable maximum efficiency power conversion. The CycWEC will scale to 1.25MW, 2.5MW and 5MW generator sizes and operate affordably across a range of wave climates and sea states across the globe.

> <u>https://atargis.com</u> Bill Hartman | bill.hartman@atargis.com



Ateios Systems

Newberry, Indiana

Traditional roll-to-roll production and thermal curing of critical battery components have been the standard for 30 years with no improvement in speed, cost, and safety. Ateios Systems and ORNL have developed a chemistry agnostic manufacturing approach that uses radiation curing instead of heat. The process demonstrates a paradigm shift in battery manufacturing where it is 10x faster (500 ft/min), 5x cheaper (<\$2M for CAPEX), and 12x cleaner (saves 60 kg of CO2 per kWh of battery produced). After raising \$2.5M and less than two years, Ateios Systems delivers its first battery product in the \$5B battery market for IoT/Wearables.

> <u>http://www.ateios.com</u> Rajan Kumar | rkumar@ateios.com

ATTACKIQ

AttackIQ Los Altos, California

Adversaries across the globe, from nation-states to criminal organizations, hold our businesses, democracy, and society at risk through cyberspace. Our mission at AttackIQ is to help solve that problem and make the world safe for compute. As the leading independent vendor of breach and attack simulation solutions, we built the industry's first Security Optimization Platform for continuous security control validation and improving security program effectiveness and efficiency. We are trusted by leading organizations worldwide to identify security improvements and verify that cyberdefenses work as expected, aligned with the MITRE ATT&CK framework of adversary behavior.

<u>https://attackiq.com</u> Brett Galloway | brett.galloway@attackiq.com



Aura Informatica

Katy, Texas

At Aura Informatica we are on a mission to enable customers find solutions to complex energy infrastructure dependency & constraints by providing a connected data model that bridges the gap between data and insight. Using our product, clients can analyze competitor activity in terms of who is building new infrastructure, who are the major players in a particular market, is there enough capacity in that market, what are the optimal routes to monetize oil and gas, financial and operational metrics of publicly traded midstream companies, CO2 emissions analysis, current and future CCUS and Hydrogen infrastructure developments, identify optimal plant siting to build new infrastructure that enables a rapid transition to a low carbon economy

<u>https://www.aurainformatica.com</u> Prasun Chaudhury | pc@aurainformatica.com



CLS Wind Clean Energy Accelerator, Class 2 Houston, Texas

CLS Wind turbine erection innovations result in faster, safer, cheaper & more efficient onshore and offshore operations. Our team has developed systems that provide flexible solutions to the onsite assembly & erection of wind turbines, installing them without the need for large, heavy and expensive cranes or heavy lift vessels, as well as being able to install several turbines concurrently (parallel versus series installations). For onshore operations, this also means a smaller footprint for the construction site, with a substantially lower environmental impact.

> <u>http://www.clswind.com</u> Kent Johnson | kjohnson@clswind.com



Brightmerge Modi'in-Maccabim-Re'ut, Israel

Brightmerge is a data decision-making platform for optimizing and verifying the financial, sustainability and reliability performance of grid connected, advanced renewable energy microgrid systems. The Brightmerge unique algorithms and data automation platform dramatically improves the profitability of deploying microgrids for electric vehicle fleets as well as industrial, commercial and residential real estate owners.

http://www.brightmerge.com

Daniel Schwab | daniel@brightmerge.com



CoFlow Jet Wind Turbines Cutler Bay, Florida

We are developing 2-bladed downwind turbine technology enabled by CoFlow Jet (CFJ) active flow control with the power scale up to 20 MW or larger. The goal is to dramatically improve efficiency (Capacity Factor) by 20% and reduce turbine levelized cost of energy by 30%. A CFJ turbine will also have longer life span, efficient and effective anti-icing system, lower mass with reduced cost of manufacturing, transportation, installation, and maintenance. We aim to transform the wind turbine industry and reduce green house gas emission and fresh water usage. We welcome investment and partnership to bring this technology to the market and benefit the society asap.

<u>http://CoFlowJetWindTurbines.com</u> Gecheng Zha | gzha@coflowjetwindturbines.com



Compact Membrane Systems Newport, Delaware

Compact Membrane Systems (CMS) pioneers membrane systems for decarbonizing hard-to-abate chemical manufacturing & industrial carbon capture. Optiperm is a platform for bolt-on, modular solutions that can be deployed in existing facilities to expand capacity, deliver new sources of revenue, reduce losses, & capture GHG emissions. Used in chemicals industry for olefins separation and for low-cost point source carbon capture (<\$40/ton) in industry. Olefins separation is an annual membrane market opportunity >\$5 BN and CC >\$800BN. Optiperm carbon targets point source carbon capture with a low energy, low pressure solution for a variety of applications, concentrations, & streams.

http://compactmembrane.com

Christine Parrish | cparrish@compactmembrane.com

BASELINEZ

Craytive Technologies Vlaardingen, Netherlands

BaselineZ accelerates knowledge sharing and decision making through immersive 3D visualization, remote meetings, 3D interactive Presentation and Training around 3D Geoscience Model content, for many business applications through Extended Reality (XR). We are looking for strategic partners to join the growth of our company, and product, to the next level: from executing pilot projects with global majors to commercial grade and enterprise scale implementation within large organizations and multinationals. With our global experience in Technology development, 3D Subsurface Modeling and first mover advantage, we are uniquely positioned to deliver and lead the market in the metaverse for geoscience.

http://www.baselinez.com

Raymond Pols | raymond.pols@baselinez.com



Criterion Energy Partners (CEP)

Houston, Texas

Criterion Geothermal Systems[™] are co-located with a commercial & industrial customer to provide combined heating & power using heat from the Earth. Geothermal systems are designed to replace fossil fuels & grid dependency from behind the meter with smaller surface & carbon footprints relative to other current renewable options. The company holds geothermal rights in Utah, Nevada, & Texas with plans to execute a first of its kind geothermal demonstration project in Texas in 2022. Technologies include fluid systems which are designed to enhance the productivity & longevity of these projects, a screening tool that helps identify areas where consumer dem&, emissions reduction needs, & resources quality overlaps, regional well & completion designs which are integral to the development of these projects, as well as the integration of thermal energy into facilities & manufacturing processes, otherwise known as the Criterion EP Industrial DirectConnect ™.

<u>http://www.criterionep.com</u> Danny Rehg | dannyrehg@criterionep.com



Critical Fluid Solutions Minot, North Dakota

Patented portable fluid storage with it's own secondary containment. We aim to serve the defense, oil and gas and emergency management markets.

> <u>http://www.fast-tank.com</u> Jeffery Archer | jarcher@fast-tank.com



CruxOCM Calgary, Canada

Just as planes have autopilot to assist—but not replace—pilots, CruxOCM enables the autonomous control rooms of tomorrow, working alongside control room operators within the safety constraints of today. Our revolutionary technology leverages machine learning and advanced physics-based methodologies to uncover unforeseen efficiencies in heavy industrial control rooms such as energy, utilities, renewables and beyond to maximize ROI, without ever compromising safety.

<u>http://www.cruxocm.com</u> Vicki Knott | vicki@cruxocm.com

URRENT POWER

ENERGY SOLUTIONS /

Current Power Energy Systems Del Mar, California

Current Power's turbines will produce green, baseload electrical power from ocean currents such as the Gulf Stream. Numerous coastal currents across the globe represent in excess of 2 TWh of annual opportunity. Several successful demonstrations of power generation from ocean currents by both large and small companies have yet to translate into commercial deployments because those designs fail to achieve CapEx and OpEx targets. Current Power's 'SpaceX like' innovations address all cost hurdles which limit successful commercialization while the simple design and extensive use of commercially available components allow rapid scaling. The LCOE will approach \$10/MWh quickly.

> <u>https://www.currentpower.energy</u> Joe Markee | jdm@currentpower.energy

DATASEER

DataSeer Houston, Texas

DataSeer is a Houston-based startup that leverages machine learning & computer vision to extract data from industrial diagram PDFs and create asset / data models and digital twins. The application recognizes objects, extracts text attributes and connects objects with lines. It is ready to be used out-of-the box with no customization needed. We also offer API integration into your data pipelines or application. Our customers love the product because it increases ROI by 10x, increases processing efficiency by 40-80% and reduces risk of project overruns. Common use cases include cost estimation for planning, bidding, fabrication and construction; data model extraction for input into a CMMS or asset database for operations & maintenance activities; and conversion of legacy diagram images into digitized CAD drawings.

> <u>https://dataseer.digital</u> Jo-Anne Ting | jting@dataseer.digital

DeepCast.ai

DeepCast.ai Houston, Texas

DeepCast is a Houston startup founded in 2017 that develops software that enables R&D lab scientists to quickly build predictive models based on known first principle equations as well as lab and field data. These models help scientists: (1) correlate past experiments, (2) identify key drivers that influence the performance of a product, and (3) predict the performance of a product under varying environmental conditions. Customers can use our software to develop new products with improved field performance while being environmentally friendly and requiring 50% fewer lab experiments.

> <u>https://www.deepcast.ai</u> Arturo Klie | aklie@deepcast.ai



Del Rey Sensors Houston, Texas

A corporate carve-out of a purpose-driven subsea environment and leakage monitoring technology, designed to give all stakeholders real-time data used for decision-making. Our goal is to bridge the economic and environmental realities of offshore operations, address our legacy of subsea infrastructure, and bring new technologies to the market to manage offshore operations.

https://www.delreypartners.com

Andre Doerfer | andre.doerfer@delreypartners.com



Dimensional Energy Ithaca, New York

Dimensional Energy is transforming carbon dioxide into sustainable aviation fuels and products at market competitive prices. Our core IP is a reactor and catalyst combination that converts carbon dioxide into CO syngas. Our platform integrates carbon capture, electrolysis, and Fischer Tropsch synthesis.

<u>http://www.dimensionalenergy.com</u> Jason Salfi | jason@dimensionalenergy.com



Direct-C Limited Edmonton, Canada

Direct-C leverages a proprietary, nano-composite polymer platform technology that can be used for two main applications, sensing a variety of chemical species or measuring strain and structural changes. The first products focus on the direct detection of hydrocarbon leaks in the upstream oil & gas (O&G) and midstream pipeline sectors.

> <u>http://www.direct-c.ca</u> Adrian Banica | abanica@direct-c.ca



Dsider Clean Energy Accelerator, Class 2 The Woodlands, Texas

Achieving decarbonization across massive supply chains & adoption of new low carbon energies require modeling, tracking & traceability. Dsider provides a holistic carbon management platform where companies can model, measure, & manage their decarbonization pathways and its operations across the supply chain. Using "Digital Twin" & Decision Modeling concepts; the platform embeds multivariant analysis, & AI to simulate and optimize recommendations to understand trade-offs of pathways, its operations, business models & associated economics. Dsider platform provides a modeling workbench & pre-built models, connected data and analytics along with collaboration & workflows to help its customer reach its decarbonization goals.

> <u>http://www.dsider.app</u> Sujatha Kumar | Sujatha@dsider.app



EarthBridge Energy Tomball, Texas

ENERGY

EarthBridge Energy bridges the gap in intermittent renewable power generation by harnessing the nearly limitless energy inside the Earth. We develop and operate Sedimentary Reservoir Geothermal power plants that deliver resilient, emission-free, weatherproof, 24/7 energy. Our GeoBattery longduration energy storage solution enables wind and solar to act as a baseload energy source, provides back-up power during storms and natural disasters, and helps maintain a stable grid. We empower 24/7 renewable energy today for a net-zero tomorrow.

http://earthbridgeenergy.com

Gustavo Perez | gustavo.perez@earthbridgeenergy.com



Earthview Longmont, Colorado

Earthview's BluBird system combines inexpensive hardware with sophisticated cloud-based software in a continuous environmental monitoring solution that is scalable, accurate, and field ready: Scalable – orders of magnitude more affordable than competing offerings, generating a robust ROI and compelling ESG return for customers. Accurate – third-party certified to exceed EPA and MiQ requirements. Field ready – proven reliability for industrial applications. BluBird is deployed in markets nationwide, helping customers locate and quantify the methane leaks that comprise \$30 billion in forgone revenue. Earthview has funded most of a Seed round and is planning a Series A in late 2022.

> <u>http://www.earthview.io</u> Mike Minyard | mike@earthview.io



Eden GeoPower

Clean Energy Accelerator, Class 2 Somerville, Massachusetts

Eden GeoPower In. ("Eden") is a clean technology startup founded by MIT graduate students Paris Smalls 7 Ammar Alali. The company is developing a novel reservoir stimulation to replace hydraulic "fracking", saving millions of gallons of water and CO2 emissions. This will allow for the recovery of subsurface heat, minerals, & fluids with minimal environmental impact, for applications in the geothermal, carbon sequestration, & unconventional shale reservoirs. Founder awards & media recognitions include Forbes 30 under 30 and Entrepreneur magazine's "Young Millionaires" 2021 edition. To date, the company has raised \$1.5M in pre-seed & \$5.5M in non-dilutive U.S. federal awards to develop the technology.

> <u>https://www.edengeopower.com</u> Marybeth Lundquist | marybeth.lundquist@edengeopower.com



Eigen Control Houston, Texas

Fusion has long held the promise of a virtually inexhaustible source of energy: 1 kg of fuel yields 1 GW sustained power output. The physics of nuclear fusion is well understood & well studied since the advent of the H-bomb, however commercialization & production of net energy & sustained control of plasma under magnetic confinement remains an unsolved problem. Fusion viability as an energy source is a control problem. Accurate CFD modeling of plasma & magnetic field confinement is a key technology to help with design optimization of reactors & to enable proper control of sustained nuclear fusion and production of net energy.

> <u>http://www.eigencontrol.com</u> Erdin Guma | dg@eigencontrol.com



Elemental Recycling Houston, Texas

Elemental Recycling has developed a single step process that uses chemistry and thermodynamics to recycle all plastics, including mixed and contaminated, and tires into high purity, +99%, graphite/graphene and hydrogen. A unit the size of a large suv is designed to process 48,000lbs/day of mixed feedstock, producing almost 40,000lbs of graphite/graphene and 8,000lbs of hydrogen. The low CapEx and OpEx show that the ER process will be the low cost producer for graphite/graphene and hydrogen. In addition, the process is CO2e neutral. Recent testing has discovered that the process is producing graphene, even down to single sheets at purity levels above 99.99

http://www.elementalrecycling.com IAN BISHOP | ian@elementalrecycling.com

C EMISSION CRITICAL

Emission Critical

Clean Energy Accelerator, Class 2 Houston, Texas

Emission Critical provides an integrated carbon https://tvforum.wufoo.com/forms/w1kbdf2r15szro8 /footprint management platform that continuously measures, accounts and enables reductions of an organization's enterprise carbon footprint. Customers can integrate climate sustainability into their operations, project evaluation and procurement decision processes by pricing carbon and allocating emissions to products and/or services. Simplify and automate the climate disclosure process to regulators and investors by selecting report templates from our library of ESG frameworks (e.g. SASB, CDP etc.).

http://emissioncritical.io

Schaum Sethuram | schaum.sethuram@emissioncritical.io

ENERPOLY

Enerpoly Stockholm, Sweden

Enerpoly produces zinc-ion batteries to deliver breakthrough affordability to stationary energy storage. The patented technology utilizes zinc and manganese-- cost-effective, non-flammable materials with stable supply chains and recycling infrastructure. Enerpoly thus provides the lowest cost of ownership in energy storage (<\$50/MWh LCOS) and eliminates 75kgCO2eq per kWh produced. Founded in Stockholm in 2018, Enerpoly brings the best of Swedish design and sustainability to the industry. Enerpoly has raised €2.5M in funding, filed 2 grants with 7 innovations in the pipeline, built a 100kWh/yr production validation line, successfully tested commercial prototypes against UL9540A standards, and will deploy 4-5 pilots in 2022-23.

> <u>https://enerpoly.com</u> Eloisa de Castro | eloisa@enerpoly.com

EnviroApps

EnviroApps Calgary, Canada

We can track our food delivery but don't always know where dangerous goods and hazardous waste are being transported within our communities. EnviroApps is on a mission to change that through digital shipping documents, one truck at a time! We eliminate paper forms that are currently being used to track transportation of hazardous materials. Efficiencies are gained by avoiding paperwork, filing, storage (minimum 2 years) costs, besides enhancement of safety through access, legibility and accuracy of information. This applies to more than 350 million paper documents every year in North America. At \$20-40 per document, savings are substantial.

<u>http://www.enviroapps.ca</u> Amit Bhargava | abhargava@enviroapps.ca



ESGWAY Houston, Texas

ESGWAY provides software & service for financial modeling, forecasting & simulation of CCS & CO2 EOR projects. ESGWAY's first-of-its-kind cloudnative software platform supports integrated CCS design, comprehensive cost estimation & multistakeholder financial modeling that enable large scale CO2 hub design & CCS partnership developments. The carbon management platform enables project developers & financiers to design, evaluate & de-risk CCS/CCUS projects from economic & environmental perspective. ESGWAY was established in 2020, with the mission of accelerating the decarbonization of energy & industry.

<u>https://www.esgway.com</u> Mohammad Evazi | evazi@esgway.com

Evolution Technologies Houston, Texas

Evolution Technologies Group is a unique small company with a strong portfolio of differentiated products developed utilizing extensive hands-on experience & sophisticated engineering capabilities for a wide range of industrial applications. We have a proven track record to develop patentable, leading edge industrial products from our small team that will save customers significant operating costs & reduced operational risk while reducing carbon footprint & improving environmental sustainability. Evolution Technologies has a highly qualified senior management team that includes extensive engineering, sales, marketing, & operations experience to provide an effective commercialization pathway for our patented & patent-pending products.

https://universalsubsea.com

Sean Thomas | sthomas@universalsubsea.com



Exum Instruments Denver, Colorado

Enabling materials scientists and engineers to spend less time acquiring data and more time learning from it, Exum builds instruments and software ecosystems that combine high performance with ease-of-use. Exum's first instrument, The Massbox, is the first Laser Ablation Laser Ionization Time of Flight Mass Spectrometer (LALI-TOF-MS) instrument on the market, capable of analyzing any sample you can throw at it. Material developers can now assess all constituents in each product they develop. Coating effectiveness can be mapped and quantified. Parts and tools can be reverse engineered quickly. Complete analysis will be brought into the hands of the end users.

> <u>http://www.exuminstruments.com</u> Josh Ulla | josh@exuminstruments.com



FLASC Delft, Netherlands

FLASC's proprietary Hydro-Pneumatic Energy Storage (HPES) technology is designed to work seamlessly with offshore renewables to enable a stable & reliable supply of clean energy. It is a versatile solution that can be deployed across a range of applications, from mainstream offshore wind farms to more specialized remote decarbonization applications & large-scale offshore hydrogen production facilities. Our strategy is to leverage strategic partnerships to deliver the complete offshore solution, while supplying key hardware sub-components that generate scalable "per unit" revenue.

> <u>http://www.offshorenergystorage.com</u> Daniel Buhagiar | dbuhagiar@offshoreenergystorage.com



Flutura Decision Sciences and Analytics

Houston, Texas

We provide verticalized Artificial Intelligence solutions using their proprietary Industrial IoT Platform "Cerebra" across O&G Value chain, chemicals, process manufacturing and Heavy machinery industries. Flutura's vision is to unlock Billion dollar of Industrial outcomes by 2024 and empower 100,000 engineers by enabling reliable and timely decisions.

http://www.flutura.com

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FuelX innovation Clean Energy Accelerator, Class 2 Aiken, South Carolina

FuelX Innovation, Inc is manufacturing solid-state hydrogen products and power systems that will revolutionize mobile hydrogen fuel-cell powered applications. We will produce the lowest cost possible Alane (aluminum hydride) by a novel manufacturing process that uses low-cost elemental raw materials and the highest capital efficiency. Providing low priced Alane will enable the use of Alane fuel cell power systems in many applications to outperform battery powered and traditional hydrogen fuel cell powered Systems. The Safety and Efficiency of Alane powered Fuel Cell Power Systems offered at a competitive price is a Game Changing Innovation.

https://fuelx.tech

Greg Jarvie | greg.jarvie@fuelx.tech



GeoGen Technologies

Clean Energy Accelerator, Class 2 Calgary, Canada

GeoGen's is transforming end-of-life oil and gas wells into revenue generating assets capable of producing between 100-150 kW of electricity per well. GeoGen's patent-pending technology makes Geothermal profitable at 80°C. Companies can now harvest heat from the wells that can be used to generate electricity to reduce energy costs or create additional revenue streams. GeoGen will enable the energy transition at the asset level, thereby reducing liabilities, lowering emissions, and leaving a green energy legacy in regions built around fossil fuel development.

> <u>https://geogen.com</u> Bryan Zintel | bryanzintel@geogen.com



GOLeafe

Clean Energy Accelerator, Class 2 Durham, North Carolina

Using organic materials and non-energy or capital intensive equipment, GOLeafe produces graphene oxide, the world's strongest, thinnest and most conductive material, through an innovative, 10x more cost efficient and eco-friendly process (patented), from various readily available sources, such as hay, sugar, wood chips, and other waste materials. Furthermore, GOLeafe has engineered different graphene oxide derivatives in order to develop, and position our GO for use in, graphene-based product applications, such as water filters and supercapacitors.

> <u>http://www.goleafe.com</u> Arsheen Allam | aallam@goleafe.com



H Quest Vanguard Pittsburgh, Pennsylvania

H Quest's innovative process is one of the most energy-efficient & cost-effective ways to generate hydrogen, especially when scale flexibility is required. In its proprietary reactor, microwave energy is rapidly transferred into the gas stream without the need for contact heating. The energy requirement of the fullscaled, heat-optimized hydrogen production system is four times lower than water electrolysis: 12 kWh/kgH2. The key unique aspect is the highly tunable co-product slate. Changing reactor settings selects the hydrogen co-products: crumpled graphene sheets, high-structure carbon blacks, or platform petrochemicals. H Quest's product leverages ubiquitous American natural gas & its infrastructure to allow for broad industrial decarbonization for its customers.

<u>https://www.sbir.gov/sbc/h-quest-vanguard-inc</u> George Skoptsov | george.skoptsov@h-quest.com



Icarus RT Carlsbad, California

Icarus RT, Inc. is an award-winning, low-cost hybrid photovoltaic/thermal (PV/T) solar plus storage cogeneration system. The novel thermal storage technology is co-located with commercial scale PV arrays to store daytime solar thermal energy for use after sunset to provide heat & hot water. The Icarus Quartet system boosts PV array performance by 12% by cooling PV panels & improving panel life and lifetime performance. The system improves affordability, reliability, & performance and will not consume PV output to charge batteries but boosts PV output by lowering panel temperatures. The system enables increased integration, deployment & operation flexibility allowing solar power to better match demand.

> <u>http://www.icarusrt.com</u> Mark Anderson | Manderson@icarusrt.com



HData Lockport, Illinois

HData is the first RegTech startup in the regulated energy industry. HData's SaaS platform automates the tasks of understanding & managing regulatory information: compliance, reporting, business intelligence, benchmarking, & regulatory analytics. HData began building its platform in August 2020, was selected for the 2021 cohort of the Techstars Alabama EnergyTech Accelerator, & raised its seed capital in December 2021. HData's Board of Advisors includes two former chairs of the Federal Energy Regulatory Commission, the former CIO of Southern Company, & the former Chief Data Officer of S&P Global. Early customers include NextEra Energy, Boardwalk Pipelines, Alabama Power Company, the Public Utilities Commission of Nevada, Tampa Electric, the Citizens Utility Board, & Consumers Energy.

<u>http://hdata.us</u> Hudson Hollister | hudson.hollister@hdata.us

> Unnervision Wellbore Technologies

Innervsion Wellbore Technologies Calgary, Canada

The company has strong support from all of its future clients. to date they have identified over \$200 million dollars in annual reoccurring revenue from one sector of there business. With new EGS regulations coming to the energy sector there will be a need to certify a wellbore as safe and without compromise to the cement or the steel in the wellbore. old style logging techniques just don't fulfill the requirements. We image through several layers of steel and cement to determine flow behind the casing and determine the condition of the whole system. The system can also be used to optimize the fracking process in both oil and gas, and also geothermal. we will make use of deployment partners in our three key regions, usa, canada and the middle east.

http://www.wellboretech.com Timothy Davies | daviest@wellboretech.com

* intention

Intention Houston, Texas

Intention is building a wealth management platform to open up the private climate asset class to the 87% of US households who are not accredited investors. With 79% of retail investors interested in sustainable investing, Intention is the first platform to enable everyone to invest for true climate impact as well as attractive returns — at scale.

<u>http://www.investwithintention.io</u> Nisha Desai | nisha@investwithintention.io

inventev

Inventev Detroit, Michigan

Inventev is pioneering ZEV+E(tm) technology for zero emission work trucks ("ZEV") combined with grid electricity generation ("+E") filling an underserved need in vehicle electrification and grid resiliency. Inventev transforms utility bucket trucks, municipal vehicles and similar into service trucks PLUS grid power generators in truck segments where electrification solutions from traditional OEMs are not offered. We replace diesel engines with gas plus electric motors for work use while providing backup emergency power generation for grid resiliency. This patented and ARPA-E grant awarded technology offers capabilities to drive electric, work electric and generate electric...delivering three value propositions to EV fleet customers.

https://inventev.com

Dave Stenson | dstenson@inventev.com

Kanin@Energy

Kanin Energy Houston, Texas

Kanin Energy works with heavy industry to turn their waste heat into clean baseload power. Kanin's decarbonization platform also provides turnkey project development, financing, and operations to help industry cost-effectively implement low carbon solutions at their facilities.

> <u>http://www.kaninenergy.com</u> Janice Tran | janice@kaninenergy.com



Kinitics Automation Vancouver, Canada

Kinitics Automation Limited, a British Columbia, Canada based company, is becoming an industry leader in the manufacturing and sales of medium- to large-scale shape memory alloy (SMA) based products. Kinitics has launched it's KVA product, a zero-bleed replacement for methane-venting pneumatic actuators commonly used at oil & gas production well sites. The company is venturebacked, has shipped product, and is revenue generating.

> <u>http://www.kiniticsautomation.com</u> Dean Pick | info@kiniticsautomation.com

LIDEYOND

LiBeyond Houston, Texas

LiBeyond LLC is a developer of material and manufacturing solutions that enable the commercialization of next-generation fast-charging batteries made from sustainable, earth-abundant materials designed for battery electric vehicles. More specifically, LiBeyond's patented intellectual portfolio and trade secrets focus on the design of the electrodes, interlayers, and electrolyte materials for magnesium-ion batteries, ending all discussions and concerns related to lithium resources and nickel and cobalt mining.

https://innovation.uh.edu/companies/libeyond-llc Yan Yao | yanyao@libeyond.com



Lignium Energy Hoyston, Texas

Lignium Energy transforms cow manure into combustion pellets for renewable energy generation, producing a certified and odorless product with a high calorific power that complies with all the regulations to be used in an existing and growing market. Lignium Energy gives a solution to an unsolved problem in the world: cow manure generating an excellent business that does not need any type of subsidy to be implemented.

> <u>https://www.ligniumenergy.com</u> Agustin Rios | arios@ligniumenergy.com

🕂 LiNa Energy

LiNa Energy Clean Energy Accelerator, Class 2 Lancaster, United Kingdom

LiNa Energy is commercialising high performance solid-state sodium batteries which offer greater safety, sustainability, and lower cost versus lithiumion. LiNa's technology combines inherently safe sodium-metal-chloride chemistry with a ultra-thin planar design unlocking greatly increased energy densities. These batteries contains no cobalt or lithium, enabling transparent and ethical supply chains using locally sourced materials and domestic manufacturing. Using abundant raw materials enables LiNa to manufacture cells for less than \$50 / kWh, half of the cost of lithium-ion batteries today. The initial product has been optimized for stationary battery energy storage systems in the 4-5 hour duration.

> <u>https://www.lina.energy</u> Will Tope | wtope@lina.energy



LiNova Energy Monrovia, California

LiNova Energy is developing an ultra-high energy density battery that does not use Nickel or Cobalt in the cathode. We pair our Polymer Cathode with a novel 3-D Lithium Metal anode, a non-flammable electrolyte and a dendrite-blocking membrane to deliver a sustainable energy storage solution. Our Polymer Cathode reduces the cost of the cathode active material by over 75%, reduces battery weight, and decreases the CO2 emissions associated with production of traditional cathode materials by over 85%. We use abundant and domestically-sourced cathode materials from the energy industry.

> <u>http://www.linovaenergy.com</u> Mike Nagus | mnagus@linovaenergy.com



Locus Bio-Energy Solutions

The Woodlands, Texas

Locus Bio-Energy Solutions[®] develops globally recognized biosurfactants with a zero-carbon footprint that meet industry needs for sustainable, cost-effective and performance-enhancing oilfield chemistries. The 100% biodegradable biosurfactants have been proven to replace or boost synthetic chemicals at a fraction of the dosage rates and cost—with 2-3X ROI. They address a wide variety of the industry's most pressing challenges, including extending total well life and boosting long-term production while decreasing risk, environmental impact and costs. With Locus biosurfactants, the oil & gas industry can get more out of existing assets and drive U.S. production of cleaner fossil fuels.

> <u>http://LocusBioEnergy.com</u> Jonathan Rogers | jrogers@locusfs.com



Luminescent Clean Energy Accelerator, Class 2 Beit Yanai, Israel

100's GW of waste heat capacity. There is no existing solution to generate zero-emission electricity from this waste heat. Our technology solves this problem. We developed a small & efficient heat engine for converting waste heat to electricity. We overcome the major thermodynamic problem for heat engines operating on any external heat source. Specifically, we increased heat power density by three orders of magnitude, allowing an equivalent reduction in size, & we increased the efficiency by demonstrating the first actual realization of the Ericsson (having Carnot efficiency limit) heat engine. The result is a low-cost small, & efficient heat engine.

> <u>http://www.luminescentpower.com</u> doron tamir | doron@luminescentpower.com



MemComputing, Inc.

MemComputing San Diego, California

MemComputing is a deep tech company whose novel computing architecture solves some of the world's most complex problems in optimization, big data analytics, and AI. Using a physics-based approach, our proprietary circuit design leverages computational memory to solve applications in Oil & Gas, Transportation Logistics, Aerospace, and the DoD. Our technology is available today through our cloud-based Virtual MemComputing Machine (VMM), and will soon be rolling out hardware solutions.

> https://www.memcpu.com John Beane | jbeane@memcpu.com



Micronic Technologies Bristol, Virginia

Micronic Technologies is a woman co-founded and led small business commercializing a patented wastewater concentration technology. The best application for our technology is in treating industrial wastewater where near-zero liquid discharge is sought by industry that desires 100% water reuse.

https://micronictechnologies.com Karen Sorber | ksorber@micronictechnologies.com

MicroSilicon

MicroSilicon Houston, Texas

MicroSilicon was formed in 2016 as a spin-off from Rice. We created an IoT platform that will make traditional oil production cheaper & more sustainable by drastically cutting the amount of environmentally challenging chemicals used in within the industry to manage flow assurance bottlenecks. By minimizing required rig visits & reducing unplanned workovers, it will also significantly reduce the carbon footprint associated with oil production. Our IoT platform combines quantum chemistry, advanced sensors, data analytics & AI to allow oilfield Operators to more accurately target & dose chemicals: increasing production, reducing waste & costly repairs, extending the life of assets & improving efficiency & sustainability.

<u>http://www.microsiliconinc.com</u> John Lovell | john.lovell@microsiliconinc.com



NanoTech Clean Energy Accelerator, Class 2 Houston, Texas

NanoTech is a material science company which has developed multiple product lines which fireproof to 1,800 C and thermally insulate. The coatings which have the Nano Shield particle are being used to fireproof California infrastructure, remove metallics offshore, and in buildings around the world. Their roof coat is the only coating in the world (that they know of) which has a perfect emissivity (emittance of heat away) and one of the lowest thermal conductivities available (heat transfer). Those two properties, drastically reduce energy consumption for any roof coated with Nano Shield.

> <u>http://thenanoshield.com</u> Mike Francis | mike@thenanoshield.com

T mote

Mote Los Angeles, California

Mote uses gasification, carbon capture, and proprietary process design to convert wood waste into hydrogen for sale and CO2 for storage. Our carbon removal is safe, additive, and permanent, keeping carbon out of the atmosphere for thousands of years. The world generates billions of tons of wood waste every year, and Mote has the best solution for it.

http://motehydrogen.com

Mac Kennedy | mac@motehydrogen.com



NASADYA Stanford, California

Combating climate change requires 0 carbon fuels and hydrogen can be one of them. However, 0 carbon-hydrogen is too expensive to produce and the current hydrogen generation contributes 800 million tons of carbon dioxide which is 2% of global emissions. We at NASADYA are building a revolutionary membrane agnostic electrolyzer to reduce the cost of green hydrogen by 50% to achieve 1.5\$/Kg of green hydrogen. This will be a huge market with forecasts at 800 billion dollars by 2040.

> <u>http://www.nasadya.com</u> Chaitanya Gulati | gulati@nasadya.com



Natrion Binghtamton, New York

Solid-state batteries are safer and better performing than existing batteries that use liquids. Mass market EVs will need to run on solid state batteries, but right now there is no solid-state technology that can use existing battery manufacturing infrastructure. Natrion's LISIC technology can be rapidly implemented on existing production lines to meet the needs of the automotive industry. LISIC facilitates 4x faster charging, a 50% increase in driving range on a single charge, and a 30% improvement in battery unit cost while simultaneously mitigating fire risk.

https://www.natrion.co

Alexander Kosyakov | akosyakov@natrion.co



NetSpring Redwood City, California

NetSpring is a cloud provider of business-metrics first Operational Intelligence. We were founded in late 2019 by the same group of industry visionaries behind Business Intelligence software leader ThoughtSpot, now a \$4.2B unicorn. Our team has deep expertise in enterprise software, data analytics, large scale distributed systems, databases, and complex analytic applications. The team's mission is to unlock the value of streaming data, and today numerous Fortune 500 customers are running mission-critical workloads at scale.

> <u>http://www.netspring.io</u> Thomas Dong | tom@netspring.io

Nhu Energy inc.

Nhu Energy Tallahassee, Florida

Nhu Energy provides digital distributed intelligence to enable the clean, flexible, & resilient electric power systems of the future. Our suite of scalable interoperable digital operating technology (OT) solutions support utility & C&I distributed energy applications. We deliver future-proof solutions, derisked with state-of-the-art controller in the loop simulation to provide best-in-class solutions that work dependably in high-value & mission-critical commercial-industrial, utility, & defense applications. Operating Technology as a Service (OTaaS) (TM) is Nhu Energy's model for delivering digital solutions performance, continuously maintained & improved, maximizing value for the customer utilizing an exp&ing array of Nhu Energy proprietary underlying technologies.

> https://www.nhuenergy.com Rick Meeker | rmeeker@nhuenergy.com

🔇 nobel

Nobel Works Clean Energy Accelerator, Class 2 Tucson, Arizona

Nobel is developing rotating detonation engine technologies that improve fuel efficiency by up to 15% versus typical combustion and reduce harmful emissions. We do this by supersonically combusting conventional fuels, which release more energy than combustion and reduce NOX. The system is also flexfueled, making way for the adoption of green fuels like hydrogen. These engines can replace combustion in our most prominent industries. Nobel is first concentrating our technologies on Energy to help curb our global emissions by offering a cost-neutral upgrade to supersonic combustion.

http://www.nobel-works.com James Villarreal | james@nobel-works.com



OneStep Power Solutions Houston. Texas

OneStep Power Solutions Inc was founded with the ambition to provide robust, reliable and repeatable power system testing to the offshore industry. With a range of unique technologies for system validation and a roadmap of future developments, OneStep Power has established a reputation as a key provider of OEM-agnostic testing solutions to the dynamic positioning subsector. We reduce operational risk by ensuring safe and efficient power systems and we help our clients get on contract by providing datadriven insights into the reliability of their vessel.

http://www.onesteppower.com

Sarah Whiteford | swhiteford@onesteppower.com

OSK

Orbital Sidekick San Francisco, California

Orbital Sidekick is employing its proprietary constellation of the world's most insightful hyperspectral satellites. We are an intelligence & analytics company, specializing in remote detection of environmental hazards, physical threats & chemical fingerprints of greatest interest to facilities and communities. With our global, persistent reach, OSK delivers actionable insights to its clients, as often as daily. Key features are identified from the spacecraft for near-real-time notification. Comprehensive analysis & web-enabled notification and reporting are provided within 24 hours. Improved understanding of emissions performance, plus compliance, asset protection, leak detection & chemical speciation are just a click away.

> <u>http://www.orbitalsidekick.com</u> Dan Katz | dan@orbitalsidekick.com



Photon Vault San Ramon, California

Photon Vault has developed a hybrid energy storage solution that combines thermal energy sources (solar or waste heat) with electrical heat pumps. This unique combination uses a novel high temperature storage media that is less than 1/10th the cost of lithium batteries on a per kwh basis and can be deployed for applications from 4 to 100 hours of energy storage.

http://www.photonvault.com

Kent McCormick | kmccormick@photonvault.com



PJP Eye Warwick, United Kingdom

PJP Eye mass produces patented rare metal-free plant-based carbon batteries that are not explosive, can be charged 10 x faster, and last for more than 20 years. PJP Eye invented technology where it can convert organic industrial wastes into carbon. The batteries have been integrated into e-bikes, escooters, and energy storage. We are going to mass produce high voltage batteries in 3 years that can be used in EVs and electric airplanes. We are the second place in the COP 26 Clean Energy Pitch Battle and selected to be the most disruptive technology by ADNOC, BP, and Equinor.

> <u>https://www.pjpeye.tokyo/en</u> Inketsu Okina | inketsu@pjpeye.tokyo



Power to Hydrogen Columbus, Ohio

Power to Hydrogen (P2H2) is simplifying hydrogen. Our technology enables a brighter energy future by solving the technical & economic challenges that come with producing hydrogen as a fuel or an energy storage tool. Our AEM-based, electrolysis technology produces high pressure, high efficiency hydrogen at low-costs from water & renewable energy. This technology can reduce the total cost of hydrogen to enable clean transportation, store energy efficiently, & decarbonize industrial processes. In addition to lowcost, high-pressure hydrogen production, the technology can produce high-pressure oxygen & be used reversibly to produce electricity. Both services can create additional revenue streams to make the total cost of hydrogen \$1/kg.

> <u>http://power-h2.com</u> Alex Zorniger | alexz@power-h2.com

) Pressure Corp

Pressure Corp Clean Energy Accelerator, Class 2 Houston, Texas

Pressure Corp's waste pressure power system leverages proven turboexpander generator technologies and third-party capital from infrastructure investors to mitigate technical and financial risks for host facilities. We help our customers maintain focus on their core business while we achieve their critical ESG targets. Pressure Corp is an ESG Developer who deploys mature technology in novel applications to reduce emissions and create ESG value for our customers, not 5 or 10 years from now, but today.

> <u>http://www.pressurecorp.com</u> Mihir Desu | mdesu@pressurecorp.com

져 Puloli

Puloli San Francisco, California

Puloli, an end-to-end turn-key IoT solutions provider for energy industries using its own private 5G-IoT network, offers zero-disruption 3rd party independent highly scalable basin-wide continuous methane monitoring subscription service to upstream and midstream companies. State of the art methane sensors are integrated with edge compute, IoT network, and cloud compute to deliver next generation of detection, estimation, and source identification features that enable RSG/RSO certification, leak detection & repair, and regulatory compliance for EPA and SEC Scope 1 metrics.

https://www.puloli.com

Kethees Ketheesan | kethees.ketheesan@puloli.com



Quantum New Energy Houston, Texas

Quantum New Energy (QNE) climate technology based in Houston. QNE offers a sustainability software platform. We use analytics & AI to advance ESG from reporting to real results by operationalizing targets & enabling automated, near real-time tracking for proactive management. Our carbon accounting module, leverages existing infrastructure & augments existing data to build granular and auditable carbon inventories for scope 1, 2 & 3. Aid by curated recommendations, users can set up cost optimized carbon reduction pathways to deliver their GHG targets, reduce costs, & streamline reporting. The platform also enables a smart energy prosumer network to generate an aggregated pool of localized carbon offsets.

http://www.QuantumNewEnergy.com

Patricia Vega | Patricia@QuantumNewEnergy.com



Quino Energy

Clean Energy Accelerator, Class 2 San Leandro, California

Quino Energy produces flow battery systems for long duration energy storage (8 hours and up). The battery chemistry uses a high-performance, long lifetime quinone that is made from common dyestuffs made from coal tar chemicals or petroleum aromatics. The dyestuffs are converted to the battery reactants in a zero-waste process using the end user's flow battery system as the reactor itself -no chemical factory is required. The quinones are dissolved in water and provide reliable power without any fire risk. Quino Energy's technology is cheaper than lithium-ion, safer, and incredibly easy to scale.

<u>http://quinoenergy.com</u> Eugene Beh | eugene@quinoenergy.com



Renaissance Fusion is a deeptech company with a breakthrough solution to the hardest and most rewarding energy problem: bringing fusion power to the grid. Our unique solution combines the proven stellarator fusion device, together with a proprietary modular design and manufacturing technology for next-generation High Temperature Superconductor (HTS) magnets, and liquid metal walls. We target our fusion reactor to be commercialized within 10 years. Furthermore, our unique IP allows applications in energy storage and other fields, to be licensed within 3 years.

<u>https://stellarator.energy</u> Francesco Volpe | francesco.volpe@renfusion.eu



R&B Technology Group Sugar Land, Texas

R&B Technology Group, based in Texas, provides a cloud-based AI analytics solution for several markets: Sports and Entertainment, Industry 4.0, Utility Scale PV Power Plants, Smart Agriculture. The proprietary technology R&B licenses is purely data driven and significantly increases efficiencies (process, people, transactions) by automatically mapping raw data, identifying causal relationships, and providing meaningful insights that are easy to understand and act upon. R&B's core product, Ari, is hardware agnostic, highly scalable, and is configurable for every persona in the business. Acting as a Virtual Data Scientist, Ari provides augmented intelligence for smarter, faster, and more efficient decisions.

> https://www.ari-analytics.com George Hernandez | george.hernandez@rnbtechgroup.com

🖗 R H I Z O M E

Rhizome Washington, DC

Rhizome is a SaaS platform that helps utilities, governments, and corporations plan for greater resilience to climate change and extreme weather. As the U.S. experiences record-breaking costs of climate change (\$306B in 2021), our tool quantifies the economic and social benefits of infrastructure investments by ingesting infrastructure, property, and demographic data, and applying valuation frameworks created by U.S. national labs. Infrastructure planners and corporations now have the foresight to invest in projects that maximize protection of communities and businesses against climate threats, and justify their investments to the public.

> <u>http://www.rhizomedata.com</u> Mishal Thadani | mish@rhizomedata.com



Rotoliptic Technologies Squamish, Canada

Rotoliptic has developed an innovative high, efficiency all-metal positive displacement pump that will displace current pumping methods that fail to meet industry demands. The Rotoliptic pump addresses the need for an artificial lift solution that maintains performance in challenging applications where incumbent technologies fail – high gas fractions or steam flashing, wells with a wide range of viscosities and temperatures and aromatic fluids. With these features, the Rotoliptic pump can increase the mean time between failures, reducing capital and operational costs. Rotoliptic is focused on the artificial lift market, valued at \$11B in 2022. The initial target market is thermal and heavy oil, valued at \$100M.

<u>http://www.rotoliptic.com</u> Robert Whyte | rwhyte@rotoliptic.com



RSET Austin, Texas

We have developed an innovative way to increase the fuel economy in conventional diesel engines by 10 % or more. The cylinder liner rotates in order to minimize piston friction. A single cylinder prototype has been built and extensively tested at the University of Texas Engines Research Lab. The prototype reliability and performance has confirmed the expectation. The technology is ready for retrofit production on the Cummins ISB platform.

http://dardal@rotatingliner.com Dimitrios Dardalis | dardal@rotatingliner.com



Rushnu Pleasanton, California

The majority of current commercialized CCUS technologies are chemical based. Chemical-based CCUS are high throughput & very predictable at scale. Existing chemical-based CCUS processes fall into two categories:-Over 96% of the cases, the absorbent is regenerated but the process only accommodate the CO2 capture (not the utilization part) & captured CO2 is usually processed through the cost/ energy intensive carbon storage (e.g. traditional carbon capture processes) -In a few cases, the process covers both the capture & utilization of CO2 but the absorbent is a consumable material in the process. In this case, the absorbent is produced as the raw material using energy-intensive methods.

> <u>http://www.rushnu.com</u> Matin Hanifzadeh | matin@rushnu.com



Safe Isolations Houston, Texas

Safe Isolations has developed a deep-tech solution that allows for safe, environmentally friendly remediation work on steel pipelines. The patented tool is a midstream tool that can be pigged inline & inserted intrusively that uses a mechanical activation system to activate components that grip & seal against a pipeline to achieve in a single self-contained unit what currently is spread across two or three large units in the sector. With our tool, any industry that uses steel pipelines can now perform remediation work more effectively, sustainably, & at a lower price point. Through minimization of the overall equipment length & components, Safe Isolations' technology can maneuver tighter corners, be used in smaller spans, & ultimately provide the flexibility needed for operators to perform more complex isolations without sacrificing on placement.

> <u>http://www.safeisolations.com</u> Paul Giles | pg@safeisolations.com



Seebeckcell Technologies Houston, Texas

SeebeckCell Technologies(SCT) develop & manufacture carbon-negative power solution for Industrial IoTs by utilizing waste heat around them. SCT's first product utilizes ample waste heat in industrial facilities to provide power for the IoT sensors, eliminating the need for changing batteries & increasing active time. As a result, SCT's devices reduce the cost of remote monitoring by six times for industrial operators compared to the batteryswap model. SCT's second product is for data centers. It uses the platform technology in Coolant Distribution Units to recover low-temperature waste heat, offset carbon emissions & increase power consumption efficiency.

> <u>https://www.seebeckcell.com</u> Ali Farzbod | farzbod@seebeckcell.com

Sens≋rEra

SensorEra Houston, Texas

SensorEra is developing novel sensor technologies, cost-effective sensor networks, and real-time monitoring services for carbon storage and sequestration, geothermal, natural or induced seismicity, safe saltwater disposal, smart city, and geotechnical projects. We leverage the latest IoT (Internet of Things) and cloud computing techniques, which enable sensor data to be continuously and real-time transmitted and processed in the cloud for immediate data-driven decision-making. SensorEra has designed and developed vertical integrated hardware and software systems to provide the right balance between cost and performance.

http://www.sensorera.tech

Tianrun Chen | tianrun.chen@sensorera.tech

SolarSpace

SolarSpace Tucson, Arizona

SolarSpace using its cutting-edge solar energy generation technology (University of Arizona & NASA) will offer Hardware and Software solutions, build and operate self-sustaining, solar powered EV Charging Stations on major highways and roads, retrofit existing gas stations. Large mirrors focus sunlight onto a small focal point reaching 1,000°C in less than 8 seconds. This Heat is converted into Sound Waves, and Sound Waves into Electric Power or Cooling without any moving parts with unprecedented efficiencies. It is modular and offers a solution to cost-effectively deliver near-24/7 carbonfree energy in the form of heat, cooling and electrical power.

> <u>http://solarspace.io</u> David Vili | david@solarspace.io



STARS Technology Richland, Washington

STARS Technology Corporation is a startup company, located in Richland Washington, that is commercializing advanced, microchannel chemical process technology developed at the Pacific Northwest National Laboratory for the US Department of Energy and NASA. STARS' awardwinning, microchannel reactors and heat exchangers are compact, process-intensive, mass-producible, and energy- and carbon-efficient, enabling a new class of affordable solutions for problems where distributed processing provides economic advantages. Placing STARS' Hydrogen Generators on the natural gas grid may be the fastest route to a clean, cheap hydrogen grid.

http://www.STARSH2.com

Robert Wegeng | robert.wegeng@starsh2.com

SWIFTCOAT

Swift Coat Tempe, Arizona

When solar panels get dirty, they can produce 30% less power. For the average homeowner, that's enough lost energy of the course of a month to power their air conditioner for 52 hours! Swift Coat has developed a nanoparticle based coating that when applied to the surface of the panel uses UV light from the sun to power a chemical reaction that decomposes the dirt that builds up on the panel keeping it clean and operating at its maximum efficiency. The company has received \$2.5M in federal research grants and is negotiated a \$7M license agreement.

> <u>http://www.SwiftCoat.com</u> Peter Firth | Peter@SwiftCoat.com

S S Z S G S

Syzygy Plasmonics Houston, Texas

Syzygy is commercializing a deep-decarbonization platform dedicated to cleaning up the emissionsheavy chemical industry. We are able to use light instead of heat to energize chemical reactions, enabling cost-competitive production of zero- and low-emissions hydrogen and sustainable e-fuels. We use breakthrough technology pioneered in the Laboratory for Nanophotonics at Rice University to harness energy from LED light to power chemical reactions. This new technology has the potential to electrify the chemical industry, shifting it to renewable electricity, and cost-effectively reducing its carbon footprint. Our goal is to prevent a gigaton of carbon dioxide from entering the atmosphere by 2040.

> <u>https://plasmonics.tech</u> Trevor Best | trevor@plasmonics.tech

TEKNOBUILT

Teknobuilt Houston, Texas

Teknobuilt is transforming the way infrastructure & energy projects are delivered worldwide. Our AI platform connects & guides the entire process to bring boost productivity & real-time visibility to projects. Our unified platform is uniquely capturing the carbon footprint of the project to enable realtime management of carbon & help optimization over time. World leading companies like Exxon, Mckinsey, Network Rail & Daewoo are already working with us to save cost overruns & prevent delays in project execution. Teknobuilt has reached cashflow positivity with a global team of over 50 in 4 countries. The team is looking to scale with an upcoming round to a service an estimated \$30 Billion market for project execution solution.

<u>https://www.teknobuilt.com</u> Abhishek Srivastava | abhishek@teknobuilt.com



Terrapin Geothermics Edmonton, Canada

Terrapin works with clients to identify, finance, design, construct, operate & maintain waste heat and geothermal power & heating/cooling projects, all for zero CAPEX deployed by you. Our end-to-end solution makes heavy industrial facilities (Oil & Gas, Steel, Cement, Glass, etc.) more efficient by utilizing a waste resource (heat) & making it useful. Terrapin has the ability to self-finance our projects & act as a utility provider where we can sell the power or district energy back to our client or sell it into the local grid when possible. All Terrapin projects generate carbon offsets which can be used for additional revenue or to help our clients reduce their environmental footprint, making Terrapin projects an ESG win for your organization.

> <u>http://www.terrapingeo.com</u> Gray Alton | gray@terrapingeo.com

T E R R A S T O R

TerraStor Energy Fort Worth, Texas

TerraStor develops low-cost, long duration, gridscale energy storage systems for a 24/7 carbon-free future. Without long-duration energy storage, the world will never move beyond 30% renewable penetration. Our storage systems provide the missing link between abundant but intermittent renewable energy and reliable, dispatchable carbonfree electricity.

<u>https://www.terrastor.co</u> Matthew Ciardiello | matt@terrastor.co



TexPower EV Technologies Houston, Texas

TexPower is commercializing cobalt-free lithium nickel manganese aluminum (NMA) oxide cathode materials that replace current lithium-ion battery cathodes powder-for powder without changes to other components, using only abundant metals, manufactured by standard processes. We are a team of highly experienced battery scientists commercializing the next generation of cathode materials that will enable the continued electric vehicle revolution. The electric vehicle revolution is under threat by cobalt—a necessary metal for all conventional commercial lithium ion battery cathodes with a supply chain dominated by China. TexPower aims to liberate the battery supply chain with its cobalt-free, high-energy NMA cathodes.

http://www.texpowerev.com

Evan Erickson | evan.m.erickson@texpowerev.com

📅 tubular.network

Tubular Network Austin, Texas

Tubular Network is a new hyperlogistics infrastructure system that could automatically move a large volume of goods with high speed in a controlled environment for both national security and civilian applications. Our system is sustainable and low cost and climate resilient that has the potential to fundamentally change existing logistics systems.

> <u>https://www.tubular.network</u> Ben James | ben@tubular.network



turbinehub.com Avon, Colorado

TurbineHub is the only US, wind-energy-focused data and geospatial analysis software, purpose-built on Esri ArcGIS platform to enable the next generation of wind energy development and investment.

> <u>http://www.turbinehub.com</u> Dylan Gust | dgust@gorecreekenergy.com



Universal Matter Burlington, Canada

Universal Matter Inc. is commercializing a new patentpending process to become the leading supplier of sustainable and high-quality turbostratic graphene. This new process utilizes a broad range of carbonbased feedstock materials, including recycled tires/plastics, petroleum coke, coal, and biomass to create new circular economies. This technology and additional developments are expected to support broad adoption of graphene across several major industries. We are working on 6 application areas with large end-users. The demonstration plant (expected completion Q2/23) is based on a process invented by Dr. James Tour professor of organic chemistry and nanotechnology at Rice University in Houston, Texas and is co-founder of Universal Matter.

http://www.universalmatter.com

John van Leeuwen | johnvl@universalmatter.com



Vidya Technology Curitiba, Brazil

Vidya developed an Industrial Reality Platform to help operators worldwide in their daily production, operation, integrity management, and maintenance routine. Therefore, allowing them to virtualize their jobs, speed up their access to data and scenarios, and keep up with their business goals. The platform is able to achieve this result by combining 3D environments, reality capture, image analytics, data engineering process, and machine learning, in a stack of technology able to be applied transversally in many sector applications in industries.

> <u>https://vidyatec.com</u> Otavio Correa | otavio@vidyatec.com



Vellex Computing Sunnyvale, California

Vellex Computing provides an edge-as-a-service platform for high-performance nonlinear optimization. The key enabler of this platform is the innovative Analog Neural Computing (ANC) chip that allows our customers to easily deploy their most advanced compute workloads directly on low-power edge devices. This obviates the need for intermediary processing nodes and simplifies their hardware deployments, slashing CAPEX and OPEX by more than fifty percent while enabling our customers to transition to a fully decentralized edgefirst architecture.

> http://www.vellex.io Palak Jain | palak@vellex.io



Viridly Clean Energy Accelerator, Class 2 Angleton, Texas

Viridly is an integrated geothermal energy company that enables rapid & sustainable scalability of geothermal exploration & development. Viridly's proprietary generator technology unlocks geothermal's full potential by doubling a field's electricity output (revenue) & by producing from lower temperature resources. The manufacture & sale of these generators enhance Viridly's exploration & development projects, which confidently commercialize otherwise-wasted exploration wells by building joint-venture geothermal greenhouses alongside geothermal power plants, delivering faster & higher returns & de-risking geothermal power exploration to scale the business.

http://www.viridly.com

David George | david.george@viridly.com



Volta Technique

Clean Energy Accelerator, Class 2 Kitchener, Canada

We are a cleantech company focusing on optimizing the use, management, & storage of energy. Volta's proprietary V-CESS technology uses compressed air energy storage (CAES) to efficiently store electricity at low costs for long durations & regenerate it during peak dem& periods at a large scale. Our clean energy storage solution provides peak dem& management, reduces utility costs, & enables greater use of solar, wind, & other renewable energy sources. We can provide long-duration storage with minimal footprint requirement, without the risk & use of chemical hazards, that is recyclable, environmentally friendly, & do not require interruption to the user's operation, & also have 300% longer lifecycle.

http://voltatechnique.com

Kamyar Rouindej | kamyar@voltatechnique.com



Wootz Clean Energy Accelerator, Class 2 Cleveland, Texas

Wootz was founded in 2018 to bring costcompetitive, carbon-neutral, multifunctional carbon nanotube (CNT) materials to market. Our core technology is a proprietary manufacturing process that produces aligned CNT materials with properties that are unique in material science – for example, our fiber is electrically conductive, half the weight of aluminum, stronger than steel, as flexible as thread, an excellent heat conductor, and chemically stable in aggressive environments, surpassing other fiber textiles and polymers. Designed for the 21st century, our CNT materials eliminate the need for costly material tradeoffs across a wide range of applications.

http://wootznano.com

Amram Bengio | amram.bengio@wootznano.com