



GREENTOWNLABS

MEMBER COMPANIES






By industry focus











92 member companies as of August 6th

Industries

1. Agriculture, Water, & Waste
2. Building / Energy Efficiency
3. Chemicals & Advanced Materials
4. Energy Distribution & Storage
5. Energy Generation
6. Information / Communication Technology & Cleanweb
7. Robotics Automation
8. Transportation
9. Other
10. Corporate Members
11. Ecosystem Members

*Please click on company logos to see their websites



Agriculture, Water, & Waste	
	<p>Alkemy Environmental – holds a patented technology solution for recycling industrial waste streams into structural grade lightweight concrete aggregate, eliminating the need to landfill harmful waste materials and to excavate the earth's crust for building products.</p>
	<p>Biobot Analytics – develops cutting-edge technology to transform sewers into public health observatories. It analyzes wastewater in order to assess the scope of epidemics, allocate resources, and gauge the effectiveness of programming over time. The first product measures opioids and other drug metabolites in sewage to estimate consumption in cities to provide data for addressing the problem.</p>
	<p>Cambridge Crops – applies biomaterials to food and agriculture to prevent food waste. They have developed an edible and natural biomaterial coating that extends the shelf life of perishable foods.</p>
	<p>Energy Onvector – provides patented, leading-edge, directed-energy non-chemical systems for treatment of water and wastewater.</p>
	<p>Exact Lux – builds the most dependable lighting in the world. LED lighting degrades 30+ percent in its advertised lifetime. Their patent-pending Light Maintenance™ technology delivers the designed intensity and spectrum throughout the warranted lifetime of your LEDs.</p>


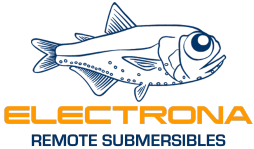
	<p>Promethean Power Systems – designs and manufactures rural refrigeration systems for commercial cold-storage applications in off-grid and partially electrified areas of developing countries.</p>
	<p>PV Pure – has developed knowledge-based design, control and maintenance methods to make scalable, distributed solar powered water purification systems technically and economically feasible for non-expert end-user operation. By optimally designing for water source, environmental and demand variations, we make our systems a sustainable and affordable source of clean water for a wide range of market application.</p>
	<p>Raptor Maps – is a service and analytics provider for precision agriculture. Raptor Maps fuses drone-based imaging technology with additional data sources and advanced algorithms to monitor cropland. Raptor Maps provides agribusiness customers with early and specific detection of pest and weed infestations, reduced water usage, and improved nutrient management.</p>
	<p>Transaera – will provide a suite of energy products and services for the rapidly growing controlled environment agriculture (CEA) industry. An initial, unmet need is low-cost, efficient cooling of indoor farms.</p>
	<p>Upstream – is creating a customizable and scalable machine learning platform that utilizes remotely sensed data to empower public, corporate and non-profit sector actors to make more informed water use, management and conservation decisions.</p>
	<p>ZwitterCo – is introducing anti-fouling membranes for treating highly impaired wastewater.</p>
<p>Building / Energy Efficiency</p>	
	<p>Appollo Wind Technologies, LLC – is engaged in the development and commercialization of technologies that reduce peak energy demand at the point of use. The patented isothermal turbocompressor technology improves operating efficiencies of refrigerant vapor compression for HVAC.</p>
	<p>Carbontec – develops Universal Heating Solutions for Ceilings, Walls and Floors. Carbontec® film generates comfortable heat quickly and efficiently. The heating quality and cost effectiveness of Carbontec® surpass any of the conventional heating systems in use today. Further, Carbontec® is easy to install and is invisible after installation.</p>
	<p>MultiSensor Scientific, LLC – is developing a multispectral infrared (non-thermal) camera system to visualize and quantify methane leaks from natural gas infrastructure in real-time. By simultaneously imaging and determining gas density, critical repairs can be located and harmful methane emissions that are driving climate change can be reduced.</p>
	<p>SAF Systems – develops and sells a high-performance, eco-friendly, passive and active solar cladding system – particularly the Solar Active Facade (SAF) – for maximum energy independence of buildings.</p>











	<p>Peak Power – is a North American based energy storage services provider focused on delivering intelligent software and project solutions to offset the most expensive hours of electric demand for utilities and building owners.</p>
Chemicals & Advanced Materials	
	<p>Adrox – is a nanotechnology company, located in Valparaiso, which was born out of the desire to generate sustainability and reduce water use in large companies and SMEs. We also develop strategic consulting services in nanotechnology and biotech for individuals, companies and institutions with high costs in maintenance and industrial cleaning to advocate lower water resource consumption, which has a positive impact on our ecosystem.</p>
	<p>Boronite – is an advanced materials company manufacturing Boron Nitride Nanotubes (BNNTs) in continuous yarn and tape formats. We are focused not only on being the first in the world to synthesize BNNTs in continuous form, but also on building industrial-scale manufacturing capabilities for these materials.</p>
	<p>Boston Materials – is an advanced materials and textiles manufacturer commercializing Carbon Supercomposites - novel 3-D reinforced carbon fiber composites that enables the production of lighter, impact resistant and durable components designed for high-stress and high-temperature applications. Carbon Supercomposite products are formulated for applications in the pressure vessel, marine, tooling, wind energy, automotive and aerospace industries.</p>
	<p>C16 – was founded with the objective of creating a sustainable, environmentally friendly alternative to conflict palm oil. By offering producers, refiners, traders and consumers of palm oil an opportunity to invest part of their production into bio-based oils and sustainability efforts, our aim is to reduce the environmental footprint of palm oil production and protect precious natural land, wildlife and resources in the process.</p>
	<p>NBD Nanotechnology – NBD Nano utilizes biomimicry to create functional and durable surface coatings that improve water collection, transport, and repellency. Key applications include: Industrial condensers, oleophobic glass/plastics, fog harvesting, and industrial plants.</p>
	<p>Proper Pipe – is an innovation start-up company designing new seal verification and monitoring technology for EF joints for use in the installation and repair of plastic pipes in the clean water, wastewater, gas and oil industries.</p>
	<p>Via Separations – Via Separations membranes will increase yield and reduce energy & operational costs for dairy, pharmaceutical, and chemical producers. They are spinning a new membrane material out of Professor Jeffrey Grossman's lab at MIT in order to address the 12% of US energy use that is dedicated to separation processes.</p>
	<p>Solchroma Technologies – builds low-cost, full-color, and sunlight-readable displays: the next generation of digital signage. Inspiration from cephalopod camouflage mechanisms has led to the development of a unique approach to color generation that</p>

	<p>will enable large-area outdoor advertising to enter the Internet of Things age on a massive scale.</p>
Energy Distribution & Storage	
	<p>Form Energy – is developing an ultra low cost energy storage technology that will be coupled with wind and solar to provide stable, predictable, emissions free energy to the grid over time domains up to 24x7 as is required for baseload generation.</p>
	<p>Battrion – develops and markets innovative fabrication technologies for lithium ion batteries aimed at increasing the charging speed of high energy density cells. By innovating on a single step in the industrial battery manufacturing processes, our patented Battrion technology improves the microstructure of the negative electrode, which constitutes the bottleneck for fast charging. The Battrion technology platform allows cell manufacturers to meet the growing performance, cost and safety requirements.</p>
	<p>Goplug – created the World's First SMART power bank with AC (wall plug) power. The SMART technology (Bluetooth enabled) embedded in the power bank allows the power provider to monitor power consumption, track the device, and enable energy flow much like an on-grid utility system can-- all from any location worldwide. The mobile app allows users a battery management solution, timer controlled powering, alert notifications, GPS, and G-sensors (movement alarm) for security.</p>
	<p>Heila Technologies- creates their award winning Heila IQ controllers to connect and monitor as many microgrid sources as required. It can sense changes in the system's conditions and communicate them to the operator; it can automatically control the sources and seamlessly react to the changes; and it learns from the long term performance of the microgrid to improve performance.</p>
	<p>Helix Power – is building next generation advanced flywheels for megawatt scale power burst management. Helix power has assembled a world-class team and attracted a strong group of partners, collaborators, funders and supporters.</p>
	<p>Ivys Inc. – is passionate about making the hydrogen future possible and driven to make fuel cell vehicles the norm rather than the exception. We are enabling this market by developing and providing safe and cost-effective fueling solutions; this includes distributed power generation, residential combined heat and power and on-site hydrogen generation and dispensing.</p>
	<p>NewGrid – develops decision support software for electric power transmission system operators to minimize congestion by routing power around congested areas. Routing is achieved by reconfiguring transmission systems through switching of high voltage circuit breakers. Our software enables reductions in the overall cost of electrical energy to consumers, eases renewables integration, and improves reliability and operational control of the grid.</p>
	<p>OffGridBox – OffGridBox™ is an all-in-one system that uses solar to provide sustainable energy, safe water, and wifi to off-grid locations and communities.</p>




 <p>Open Water Power</p>	<p>L3 Open Water Power – is developing a novel Aluminum-Seawater Reactor with the potential for disruptive impact for undersea power generation. Invented and patented by its founders, the electrochemical system provides quiet, scalable, non-toxic energy storage and generation, with over 10x the demonstrated energy density of Li-ion batteries.</p>
 <p>SparkCharge</p>	<p>SparkCharge – is creating a more efficient and connected world of transportation by solving the problem of range anxiety with our ultra fast, portable and modular charging station for electric vehicles.</p>
 <p>Sparkplug Power</p>	<p>Sparkplug Power – is developing energy storage projects for grid ancillary services. It will own and operate these facilities.</p>
 <p>Starfire Energy MAKING SUSTAINABLE ENERGY A REALITY</p>	<p>Starfire Energy – You don't need fossils to have fuel! Starfire Energy will make clean NH₃ fuel from air, water, and renewable energy. Today's NH₃ technology can't do that. NH₃ can be used in engines, turbines, fuel cells, and burners without the need for significant modifications. With visionary partners, Starfire Energy will build NH₃ plants and produce NH₃ to replace fossil fuels.</p>
	<p>Titan Advanced Energy Solutions (AES) – is developing and producing advanced battery management systems for lithium ion battery (LiB) consumer electronics, automotive and storage markets.</p>
 <p>Tankutility</p>	<p>Tank Utility – is a remote propane monitoring system and price comparison platform. We combine accurate data on tank levels, real-time consumption patterns, and current market rates into one intuitive application.</p>
<p>Energy Generation</p>	
 <p>Blackburn Energy Powering The Future Of Trucking</p>	<p>Blackburn Energy – Blackburn Energy's RelGen system successfully creates inexpensive, clean and "quiet" electric power in long haul trucks enhancing driver comfort, addressing EPA restrictions on engine idling, reducing maintenance cost, providing significant fuel savings and increasing truck up-time.</p>
 <p>Blue Sky ENERGY</p>	<p>Blue Sky Energy – makes advanced MPPT Solar Charge controllers that provide the power you need when you need it most. Using advanced circuit design and construction methods honed at MIT, then refined by deployment in the harshest earthly conditions, Blue Sky Energy and Genasun charge controllers provide the most reliable and efficient power management systems available.</p>
 <p>DYN</p>	<p>Dynamo Micropower – Proprietary low cost, ultra-portable microturbines with applications including oil & gas, portable power generation, and distributed residential and commercial cogeneration.</p>







	<p>Eden GeoPower, Inc. – is a renewable energy company founded by a group of MIT and LSU students in April of 2017. The vision of the company is to develop new technologies to transform low-grade heat from depleted oil and gas reservoirs to sources of geothermal power. The power generated at these marginal well sites will be used to replace diesel generators during ongoing oil field operations, or sold to the grid in power purchase agreements.</p>
	<p>FGC Plasma – uses plasma to stabilize combustion for a wide variety of lean combustion systems, leading to increases in efficiency and operability as well as decreases in emissions. Thanks to our plasma assisted fuel injection systems, we can create cleaner, lighter and more efficient engines, in particular for aerospace applications.</p>
	<p>Halo Energy – uses compact, high-output wind turbines, to advance the adoption of wind energy for the on-site generation of reliable, low-cost, and clean electricity.</p>
	<p>InnoSeptra – InnoSeptra's technology platform offers significantly reduced costs and energy consumption for a variety of gas purification challenges. They are focused on de-carbonizing our energy system; from making renewable gas more cost-effective to capturing carbon before it leaves the power plant.</p>
	<p>Pecos Wind Power – is developing a low wind speed 85kW wind turbine for distributed generation. By coupling a low LCOE turbine with a Solar City-style business model, Pecos is the first company to make switching to wind power simple and cost effective. Pecos' PW85 turbine can be installed next to schools, businesses, and municipalities to reduce their cost of electricity.</p>
	<p>Resonant Energy – works with homeowners across the income spectrum, multi-family buildings, nonprofits, and small businesses to install high quality solar systems at discounted rates with financing that works for everyone. They offer one of the only programs that makes solar accessible for low-income households and nonprofits.</p>
	<p>Sistine Solar – offers the world's first solar digital billboards, signs, and street furniture. We design, engineer, and build beautifully sustainable dynamic displays for brands, cities and outdoor advertisers.</p>
	<p>Sunwealth- is a pioneering clean energy investment firm determined to unleash the power of commercial solar. Through its proprietary investment platform, which dramatically simplifies the investment process, Sunwealth delivers excellent returns <i>and</i> meaningful impact to a growing community of investors.</p>
<p>Information / Communication Technology & Cleanweb</p>	
	<p>Altaeros Energies – is developing a breakthrough airborne wind turbine that produces abundant, low-cost, renewable energy. Altaeros turbines are designed for easy mobility and deployment at remote locations.</p>

	<p>Fairwaves – makes rural mobile coverage profitable. We have built a unique technology that significantly lowers the cost of deploying and operating mobile networks in rural regions. Fairwaves is gaining a footprint in the telecommunications space by helping Mobile Network Operators (MNO) to roll out mobile networks to reach up-to 1.6 billion new customers.</p>
	<p>Palmos – creates wireless sensor network solutions for hydrological risk prediction.</p>
	<p>SteamIQ – has developed, and applied for IP, on an ultrasonic steam trap monitoring system unlike anything else available. The company utilizes creative circuit and sensor design, along with LoRaWAN connectivity to enable vast facilities to monitor their steam trap population for faults.</p>
	<p>Tagup – offers industrial equipment manufacturers a cloud-based solution to track products' sensor, location, and static data in real-time. We enable manufacturers and their supply chain partners to have complete visibility into a product's operational status, improving service contracts and generating new sales opportunities.</p>
<p>Robotics Automation</p>	
	<p>Autonomous Marine Systems Inc. (AMS) – has developed the world's most advanced robotic sailboat dubbed simply: Datamaran. The craft is capable of operating autonomously on long duration missions over massive geographic distances.</p>
	<p>Dexai Robotics – builds flexible automation for restaurants, to prepare great food using existing recipes in existing kitchens. Their technology is based on techniques for manipulating deformable materials in unconstrained environments using articulated robot arms.</p>
	<p>Domovi – designing the future's next generation of appliances for the modern home. They're challenging the "good enough" design model and bringing it into the 21st century.</p>
	<p>Electrona Robotics – Electrona is a Somerville-based startup focused on developing low-cost underwater drones. Their remote submersibles allow anybody to shoot HD video, collect scientific data, and recover objects beneath 300 feet of cold, dark water. Or simply explore under the local dock. Electrona aims to put powerful marine technology in the hands of regular people, because 70% of the planet shouldn't be out of reach, out of sight, and out of mind.</p>
	<p>Riptide Autonomous Solutions – focuses on Unmanned Maritime Vehicle (UMV) development and production. This includes Autonomous Undersea Vehicles (AUV), Unmanned Undersea Vehicles (UUV), and Autonomous Surface Vehicles (ASV).</p>

	<p>Rise Robotics – is creating powerful human motion with robotic body parts enabled by breakthrough mechanical inventions.</p>
	<p>Root AI – is building intelligent systems that solve the biggest problems facing the indoor farming industry.</p>
	<p>Spyce – is a passionate group of engineers and food aficionados that want to change the way people eat on the go. Our knack for robotics and expert taste buds are driving technologies that will add a whole new flavor to the world of fast food.</p>
	<p>WaveSense – is enabling robust all condition autonomous vehicle lane keeping using radar fingerprints of the roadbed.</p>
Transportation	
	<p>Accion Systems – is an MIT spin-out providing propulsion systems to the rapidly growing satellite industry. Their proprietary ion beam technology addresses an industry-wide pain point – it's smaller, safer, and less expensive than existing solutions.</p>
 <p>De-Ice</p>	<p>De-Ice – aims to permanently change the way airplanes are de-iced, from an expensive, slow and unsustainable chemical treatment to a novel electric method. De-Ice's product will be manufactured directly onto airplanes, completely eliminating chemicals from the de-icing process and eradicating takeoff delays, at a fraction of the current costs.</p>
	<p>Prime Lightworks – manufactures electric propulsion systems for space satellites. Their satellite propulsion technology has no fuel dependence, which will lower the carbon footprint of the satellite industry by drastically reducing A) fuel consumption by satellites on orbit, and B) fuel consumption by launch vehicles during orbital insertion due to reduced satellite fuel mass.</p>
	<p>Vecarius – is developing an exhaust heat recovery system that generates electricity and reduces fuel consumption and emissions of vehicles by 5 and 10%, achieving hybrid-like benefits at far lower cost.</p>
Other Industries	
	<p>Agira – a photonics company developing products for energy generation and energy efficiency of solar panels, displays and lighting using its innovative light trapping and light collimating waveguide technology.</p>
	<p>Axiom Optics – offers the highest quality optical instrumentation for Light Microscopy, Optical Metrology, Advanced Imaging and Laser Beam characterization.</p>

	<p>EMBR Labs – is creating the Embr Wave, the first wristband that changes temperature to make people feel more comfortable when they are too cold or too hot.</p>
	<p>Green Gas – is a social enterprise determined to bring meaningful climate action to all-right at the gas pump. Through embedding carbon offsets into debit cards and gas pumps, Green Gas garners public awareness and funding for substantive climate solutions.</p>
	<p>Inspiralia – is a New Product Development Service Company from Madrid, Spain. They help their clients raise non-dilutive funding, improve their R&D processes and take over & execute entire R&D activities in their own labs. Their research activities focus on Advanced Materials, Nanotechnologies, Water & Wastewater technologies, Computational Simulation and Electronic Engineering.</p>
	<p>LineVision – combines advanced non-contact sensor and analytics technologies to give utilities more reliability, capacity, flexibility and resiliency on their transmission lines.</p>
	<p>Quantum Diamond Technologies (QDTI) – is developing novel quantum devices and sensors that exploit the unique properties of diamond. QDTI uses technology based on fluorescent crystal defects that can be used as sensitive electric and magnetic field probes, thermometers, quantum bits, and photonic elements – all at the nanoscale.</p>
	<p>Silverside Detectors – helps governments reduce the threat of nuclear terrorism. Our lithium thermal neutron detection technology matches the performance of standard He-3 radiation detectors, but at 1/10th the price. This inexpensive radiation sensor is low-cost and efficient enough to be a "connected device" for networks of discrete detectors.</p>
	<p>Trace Matters – is making the next generation of simple, portable, and low-cost miniature mass spectrometers to provide lab-grade chemical analysis readily available at the point of need/action.</p>
	<p>Voxel8 – bringing novel materials to 3D printing. We will embed function into the typical shapes of 3D printing. Our materials, based on research by Harvard SEAS Professor Lewis, allow us to print embedded conductors, wires, and batteries into the normal matrix materials of 3D printing.</p>
<p>Corporate Members</p>	
	<p>Air Liquide – is a multinational company which supplies industrial gases and services to various industries including medical, chemical and electronic manufacturers.</p>
	<p>BASF – creates chemistry for a sustainable future. They combine economic success with environmental protection and social responsibility. Through science and innovation they enable their customers in nearly every industry to meet the current and future needs of society. BASF Corporation is the largest affiliate of BASF SE and the second largest producer and marketer of chemicals and related products in North America.</p>

	<p>Draper – focuses on the design, development and deployment of advanced technological solutions for the world’s most challenging and important problems. Draper provides engineering solutions directly to government, industry, and academia; work on teams as prime contractor or subcontractor; and participate as a collaborator in consortia. They provide unbiased assessments of technology or systems designed or recommended by other organizations — custom designed, as well as commercial-off-the-shelf.</p>
	<p>DSM – is a purpose-led global science-based company in Nutrition, Health and Sustainable Living. DSM is driving economic prosperity, environmental progress and social advances to create sustainable value for all stakeholders. DSM delivers innovative business solutions for human nutrition, animal nutrition, personal care and aroma, medical devices, green products and applications, and new mobility and connectivity.</p>
	<p>Saint-Gobain – is the world leader in the habitat and construction markets, designs, manufactures and distributes building and high-performance materials, providing innovative solutions to the challenges of growth, energy efficiency and environmental protection.</p>

Ecosystem Partners	
	<p>Anzu Partners – is a private equity/venture capital firm focused on industrial innovation.</p>
	<p>Beantrust – In our fast-paced, data-driven world, beantrust is all about people. For each customer, Erik creates a customized, delicious coffee program. In addition to serving first-class cold brew, fresh roasted coffee, and chilled herbal infusion, Erik brings a taste of coffee's rich history and culture to some of Boston's most innovative technology hubs. In striving to provide a service-level of excellence, beantrust is energizing and engaging the workplace community in a unique way.</p>
	<p>Clover – Clover Food Lab is a cult-favorite restaurant chain founded by MIT alum and environmentalist Ayr Muir. Clover's mission is to address global warming by building a better food future. With the help of raving fans, it has expanded from a food truck in 2008 to 12 restaurants serving thousands daily in the greater Boston area.</p>
	<p>Exakom – Exakom is a software vendor specialized in industrial automation solutions. With PLUTO LIVE REPORT and PLUTO M2M, Exakom provides 2 solutions to easily leverage and manage plant data.</p>
	<p>JSG Communications – Strategic communications for energy and environment businesses.</p>
	<p>Keysight Technologies – is the world’s leading electronic measurement company, transforming today’s measurement experience through innovations in wireless, modular, and software solutions. With its HP and Agilent legacy, Keysight delivers solutions in wireless communications, aerospace and defense and semiconductor markets with world-class platforms, software and consistent measurement science.</p>

	<p>MNL Partners – develops energy and environmental projects in global markets, with a focus on China. They bring together world-changing technologies, partnerships across the value chain, and the capital needed to scale. They work hands-on, providing active leadership from project conception through cash flow.</p>
	<p>Next Rung Technology – provides consulting, engineering, and execution services to organizations commercializing sustainable technologies. We help deliver the world’s next sources of clean energy, clean water, plant based foods and materials.</p>
	<p>Opus One Solutions – enables the Distributed Energy Grid with a dynamic software platform that gives utilities, owners of distributed energy resources (DERs), and other market participants visibility into the DNA of the electricity distribution grid in real-time, as operated – thereby unlocking new customer and utility business models and 100% penetration of DERs.</p>
	<p>ReVenture – Reventure is an advisory services company which helps startups focused on solving big, global issues scale their ideas and bring them to market. We offer business development, marketing, and market entry services, as well as provide strategies for tackling planning, growth, and operations challenges.</p>
	<p>Risk Consulting Partners – RCP-Clean Energy Risk provides insurance solutions to renewable energy system manufacturers, developers, owners, lenders and investors. Our projects have spanned a range of renewable energy and clean energy technologies, including solar, wind, waste-to-energy, fuel cell, energy storage, and energy efficiency.</p>