



Offering	Market/Customer	Description
Low-Cost, Highly Optimized, Circular Economy Battery Energy Storage Systems	Utilities, Developers, Municipalities, International NGOs	This system represents the prospect for dramatic cost decreases, both initial and TCO of greater than 50%, for battery energy systems of 40 kW and higher. This is achieved through patented advanced battery management system, artificial intelligence, micro-electronics and repurposed or very low-cost battery cells. System operation and economics are getting proven in commercial settings in UK. Company, now with Greentown-based CEO, is looking to do the same in the US.
Electric Vehicle Charging Software and Network	for property owners, businesses, and fleet operators	This technology gives businesses and property owners the ability to efficiently manage and optimize multiple charge stations and locations in one platform. Advanced features, such as smart scheduling, dynamic access control and energy optimization provide site hosts more flexibility and affordability for their charger investment.
Indoor Air Quality (IAQ) and Energy Savings Platform focused on people	Building Owners, Facility Managers, Schools, Public Spaces	Smart office/home indoor air quality (IAQ) platform that makes people, buildings, and the planet healthier through advanced controls, machine learning and sensors. It is the only platform proactively addresses user comfort to optimize building operations, reducing the cost to operators and the impact on the planet. Unlike other systems on the market, technology is designed to be easily integratable with existing HVAC & IAQ infrastructure.
Synthesizing Innovative Climate Technologies into Holistic, Community-Centric Climate Solutions.	Municipalities, Local Utilities, Agencies and Businesses	Our communities have a largely untapped wealth of equitable, carbon-free, local energy resources (DERs)... powerful tools for climate action. This firm is developing projects that lead to holistic solutions and building an information system (CEERUM) that accelerates this process.
Energy Management & Optimization	Businesses, Utilities, NGOs	Digital platform for eliminating energy waste and efficiently managing energy assets. Simple coordination between utilities and businesses unlocks demand-side contributions to grid reliability efforts. Utilities improve efficiency in load distribution and resource planning; businesses reduce costs and monetize distributed energy resources. Platform savings are paid forward to support equitable energy access.



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Drop-in Boiler Replacement with Integrated Electric Generator	Developers, Local Utilities, Housing Authorities	This system delivers both heat and resilient power for light commercial and large residential. This is a ready replacement for existing building boilers. It provides ultra-high efficiency heating and electric power that can be used to offset electric usage and serve as back-up power during outages. System can run on several different fuels, including natural gas, propane, biofuels, and hydrogen.
Commercial and Municipal Microgrids	Commercial, Industrial, Municipality, Agricultural and Campus Facilities	Powerful and versatile edge controller that enables commercial, industrial, and municipal facilities to reduce energy costs and carbon footprint while building a foundation for facility resilience with behind-the-meter distributed energy resources DER, including existing gensets, battery storage and PV.
Zero Emission Vehicle Dispensing Stations	Municipalities, State/Federal Government, Dealerships, Commercial Fleet Operations	A new class of compact, turnkey hydrogen generation and dispensing station for long-range fuel-cell ZEV fleets. Using renewable electricity and water, the station produces hydrogen on-site and on-demand to enable up to 1200 miles per day of clean mobility. The station can be further coupled with a battery EV charger to provide a ready solution for mixed ZEV fleet operations.
Real-Time Electrical Distribution Asset Inventory and Inspection Tool	Municipalities, Utilities	Presenting an integrated on-line platform served by AI driven optical hardware mounted on any type of fleet vehicle that regularly inspects utility distribution assets and updates inventories as it drives by them performing other municipal or utility duties and services.
Satellite Based Vegetation Management	Utilities, Municipalities	Presenting an on-line platform that helps utilities monitor and predict vegetation growth and fall risks around power lines and other assets. This platform helps to mitigate risks of outage, damage, and personnel injury, while fine-tuning trimming cycles and preserving safe/healthy vegetation at lower costs.



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Novel Approach to Project Funding/Ownership	Municipalities, Non Profit Organizations	Changes to crowd funded security laws has created some exciting new avenues to untapped sources of project funding for and community ownership of distributed energy assets. This approach brings more investment \$\$ to “main street” energy projects” and keeps it there.
Real-Time Grid Carbon-Tracking Tool	Utilities, Municipalities, Institutions	Accurate, affordable, and easily expandable tool used for planning (running scenarios), assessing GHG inventory and continuously tracking progress against goal. Tool can be ultimately expanded to implement carbon optimization control strategies.
Behind-the-Meter Energy Storage for Demand Charge Management. Cheaper, Cleaner & More Reliable Power.	Commercial Building Owners and Long-term tenants, Municipal Utilities	We build own and operate Battery Energy Storage Systems for businesses, property owners and municipal utilities to manage peak power demand. We provide this service on long term contracts taking the technical and capital risk and converting it into a stable monthly operating cost for customers at a lower rate than they are currently paying. This has the added effect of increasing reliability and greening the grid.
Residential Air Source Heat Pumps with Thermal Storage	Housing Developers, Authorities, Local Utilities	Air source heat pumps are gaining greater acceptance as they get more efficient, more effective at lower temperatures and their costs come down. Their value gets a quantum boost with integrated advanced thermal storage capabilities. This feature allows users to ride through grid outages and secure added revenue stream through local utility grid support programs at a fraction of the cost of an electrical battery system. The story gets even better when incorporating these systems with PV microgrids and VPPs.
Zero-Carbon Baseload Electricity from Waste Heat.	Manufacturers, Producers, Oil & Gas, Data Centers, Utilities	This approach employs a customer-tailorable project development model and commercially proven, state-of-the-art technologies - to economically derive electric power from consistent industrial, food & beverage and deep well geothermal sources of heat.



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Purpose-Built Energy Storage System that Avoids Expensive Distribution Upgrades for EV Charging and Building Electrification	Utilities, EV Charging Business, Municipalities	Fast EV Charging stations with Integrated Energy Storage can avoid costly electrical infrastructure upgrades while bolstering revenue streams through smart grid support. These systems also enhance community resilience. The story gets even better when incorporating these systems with PV carports, microgrids and VPPs
Automated Residential Decarbonization Assessment Tool	Residential Efficiency Service Providers, Utilities, Municipalities	A digital tool that automates project scoping and product specifications for home decarbonization without on-site home visits. The tool gives building owners a straightforward, holistic decarbonization plan that addresses the energy efficiency, electrification, renewables, health, and safety opportunities in their home, without all the fuss. Ultimately, this self-assessment system will enable any single-family homeowner to scan their home, immediately receive a comprehensive decarbonization plan, and allow them to procure retrofit solutions directly through their own phone.