



ENERGIA
VENTURES

DEMO DAY 2021
THE COMPANIES



J Herbert Smith Centre
for Technology Management & Entrepreneurship





SWTCH is one of Canada's largest providers of Open Charge Point Protocol (OCPP) compliant EV charging solutions, managing a growing network of 800+ EV chargers coast-to-coast. We bring a deep understanding of the unique physical and electrical constraints facing multi-unit residential and commercial buildings, providing charger owners with important functionality including access control, automatic billing and payments, and smart energy management.

With a wide range of expertise in EV charging design, strategy, and implementation, we help clients navigate current technology options and deployment best practices to reduce the technological and financial barriers to charging infrastructure implementation. Recognizing the dynamic nature of the EV charging industry, our team always has a pulse on the latest trends and technologies—from load management and demand-response to battery storage and renewable energy integration. Our open standards approach to EV charging offers clients (1) choice and flexibility in terms of products, features, and pricing, (2) plug-and-play with smart building technology, and (3) scalability as demand for charging grows.

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THE TEAM



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NICOLE POLITIS

BUSINESS DEVELOPMENT



MADA Analytics utilizes its AI platform to maximize profit and minimize risk of renewable energy projects. The digital twin simulation generates accurately priced insurance to secure cash flows and optimized energy storage design for supply, to deliver highest financial results.

Weather and New Energy Storage systems, cause banks to provide less debt, New Analytics are needed to evaluate and support the cash flows from renewable energy + storage with insurance enhancements to maximize profits.

MADA's Solution: Simulate accurate energy production & multiple financial insurance solutions, for energy storage & renewable technologies. Seamless integration of project finance, power markets, and engineering knowledge.

Use of AI to pinpoint optimal project design and investment structure for highest returns and lowest risk, from accurate data of cash flows for energy storage systems for insurers/investors.

Using reliable forecasted data, the MADA software uses proprietary machine learning algorithms and its developed data lake, to calculate financial insurance for energy storage & cash flow performance, optimizing the energy storage design, operation, and financial returns - for both C&I and utility-scale renewable generation projects.

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Synthetic fertilizers feed half of the world's rising population. These products contribute to 1% of global greenhouse gas emissions and contaminate waterways. The impacts of synthetic fertilizers are now responsible for deteriorating arable land, jeopardizing the future of our food chain.

Picketa Systems' digital scanning technology empowers agricultural producers to analyze soil and plant nutrient concentrations freely and rapidly.

Alongside nutrient data, location-specific weather, fertilizer application history, and crop rotation history are monitored to provide a comprehensive overview of crop status. An online platform manages users' data via web and mobile applications. Machine learning and agronomy's best practices derive crop treatment from the collected data. With our solution, producers can improve the return on investment from fertilizers and protect their natural resources by limiting usage to a minimum effective dose.

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BUILDING SYSTEMS INC.

PLAEX Building Systems is a pioneering company committed to manufacturing **environmentally responsible, simple and innovative building materials made from currently unused and underused waste streams**. We create eco-friendly, sustainable modular building solutions that will withstand storms, floods, earthquakes, and insects; all while reducing your carbon footprint and saving you time, labour, and energy costs.

Through our innovative composite, we are able to process a wide range of difficult-to-recycle thermal plastic waste, including a special mix of agricultural, marine and municipal plastic waste and dry aggregates such as plaster, concrete, brick, and glass. We turn all of this into a valuable, durable, simple, long lasting, fully interlocking Brick & Panel building system. Our system can be used and reused in a wide range of low-rise construction applications from flood walls and retaining walls, to sheds, and more, with residential certification on the horizon. PLAEX Building systems Inc. was founded in February 2020 by Dustin Bowers. Dustin comes from a long line of tradesmen and has over 18 years' experience in the building industry.

Finally: a truly scalable solution to waste that makes use of plastic's best properties. Join us as we build a better future from yesterday's waste!

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SmartHelio is a Switzerland based clean-tech startup. We were awarded a research grant by Innosuisse Innovations (Swiss federal office of Innovation), Switzerland.

SmartHelio gives second life to solar panels, helping to generate more clean energy and prevent e-waste. We have built a proprietary edge computing based IoT hardware and deep diagnostic technology which can detect sick solar panels, helps them to get repaired and reused. Our product is easy to use and affordable and helps solar installers to generate more clean energy.

Our aim is two-fold:

- 1) Improve life of repairable panels at solar plants
- 2) Develop second hand solar markets by re-characterizing the panels.

Our technology consists of patent pending smart IoT hardware (HelioHealth) which can be connected directly to a solar panel to check the health of the panels and our deep-diagnostic software provides repair methods based on the sickness.

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Drinking water contamination is all too common, and barriers to water testing have resulted in the avoidable deaths of millions.

In response, **Drinkable is building on breakthroughs in nanosensor technology to create an effortless, affordable, and reliable sensor device.**

This solution will empower water autonomy by providing unprecedented accessibility to water testing, risk literacy, and treatment guidance.

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