

# CLEANTECHFORUMASIA

Singapore, 8-9 October 2019

## INNOVATION COMPANIES

A distinctive feature of Cleantech Forums are how many entrepreneurial companies our delegates get to hear from and meet. Below is our guide to a sampling of those start-up and growth-stage innovation companies who are speaking on sessions or partaking of the 2019 Cleantech Forum Asia as an attendee. *Updated 8 October 2019*

### AGRICULTURE & FOOD

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**Shiok Meats** (Singapore): Developer of cellular aquaculture and cell-based meat products

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**Umitron** (Singapore): Provider of an aquaculture management system

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**Wittaya Aqua** (Canada): Developer of an aquaculture optimization platform, helping farms make better decisions on feeding, water quality and production management

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**xpertSea** (Canada): Developer of hardware to monitor aquatic animal quantity and health, and an AI-driven data management platform for aquaculture production

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### ENABLING TECHNOLOGIES

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**Actility** (France): Provider of products and services for machine-to-machine (M2M) and smart grid applications

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**RUNWITHIT Synthetics** (Canada): Supplier of at-scale, geospatial synthetic design environments for intelligent, emergent design of interconnected city systems, including energy grids, IIoT, networks, people, disasters, etc. using live data modeling

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## SEMIOTIC LABS

**Semiotic Labs** (Netherlands): Developer of data driven foresight using IoT sensors to offer a view into the inner workings of complex systems and critical machinery

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## ENERGY & POWER



**75F (United States)**: Predictive and proactive IoT-based building automation system that addresses HVAC, lighting, and equipment control needs

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**Alpha ESS** (China): Developer of advanced lithium ion battery storage products

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**AMSoIEC** (Germany): Developing a prototype for PV thin film modules with significantly more usable

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**Anzene** (Singapore): Developer of energy storage that is safe, swappable, standardized and stackable to power everyday consumer electronics and light mobility devices, with sustainable manufacturing considerations for over 90% recyclability rate

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**AVA Asia** (Singapore): Provider of visual and thermal inspection services by UAVs, satellite data and sensors

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**Barghest Building Performance** (Singapore): Developer of control solutions to lower the total energy consumed in HVAC systems

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**Boson Energy** (Luxembourg): Developer and builder of cogeneration solutions, turning local mixed and hazardous waste into clean power, heat and GHG-free thermal cooling for local use – without any toxic ash residues

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**Bowman Power** (United Kingdom): Designs, installs and maintains electrified turbomachinery products for improving internal combustion engines. These products reduce fuel consumption & emissions and improve responsiveness.

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**Canopy Power** (Singapore): Provider of turnkey hybrid microgrid solutions in Southeast Asia

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**Climate Connect** (India): Developer of software solutions, providing analytics and forecasting for energy markets

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**Eco Waste Solutions** (Canada): Manufacturer of thermal waste conversion and energy recovery technologies

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**Eco Wave Power** (Israel): Developer of hydrokinetic energy harvesting devices

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**EH Group Engineering** (Switzerland): Developer of low-temperature hydrogen fuel cells

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**Eigen Energy** (Singapore): Installer of commercial and residential photovoltaic systems

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**Energy Renewed** (Singapore): Provider of renewable energy solutions for off-grid industries such as resorts, mining, and fishing

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**EverComm** (Singapore): Provider of end-to-end energy management solutions for enterprises, including energy data collection, data migration, and data analysis

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**Future Grid** (Australia): Developer of smart grid software, which integrates, processes and virtualizes grid data

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**Grassroots Energy** (India): Developer of distributed, innovative Bio-CNG installations in emerging economies

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**H2Store** (Australia): Developer of low pressure, intrinsically safe, non-toxic hydrogen hydride storage products

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**H2sys** (France): Designer and developer of fuel cell systems and generators that produce electricity from hydrogen

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**HeliosAltas Corp** (United States): Developer of a non-blocking, modular hydro solution that can operate in as little as 2 inches of water and only 6 inches of fall

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**Hiringa Energy** (New Zealand): Developer of green hydrogen projects, building and operating hydrogen generation and distribution infrastructure

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**Hydrogenics** (Canada): Designer, manufacturer, builder and installer of industrial and commercial hydrogen systems

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**HyET Solar** (Netherlands): Developer of flexible, light-weight solar modules

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**MatterSphere** (Liechtenstein): Developer of a commodity technology platform

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**Open Ocean Robotics** (Canada): Developer of wind-and solar-powered autonomous boats providing real-time information from anywhere in the ocean for actionable insights

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**Opus One Solutions** (Canada): Developer of real time control and optimization solutions for generation, storage, and electric vehicle resources

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**Phononic** (United States): Developer cooling and heating solutions using solid-state thermal management solutions for electronics cooling, cold storage refrigeration and transport and climate control

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**Positive Energy** (Singapore): Developer of a renewable energy finance platform

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**Resync Technologies** (Singapore): Machine learning and data analytics driven Intelligent Energy Cloud platform for smart cities and systems with distributed energy resources

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**Right People Renewable Energy** (Singapore): Provider of renewable energy solutions for the industrial clients

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**Sierra Energy** (United States): Developer of FastOx waste gasification technology

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**SolarHome** (Singapore): Provider of financing solutions and off-grid solar installations

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**Spectronik** (Singapore): Developer of advanced hydrogen PEM fuel cells, as well as integrated fuel cell solutions and full life cycle services for tomorrow's unmanned vehicles

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**Steelhead Composites** (United States): Provider of pressure vessels and hydrogen storage options for certified zero-emission fuel cell applications

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**Third Wave Power** (Singapore): Developer of portable power solutions using solar energy and IoT for off-grid use

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**VFlow Tech** (Singapore): Developer of efficient modular vanadium redox flow batteries to deliver a reliable energy + storage solution

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**Village Energy** (Australia): Provider of a distributed microgrid platform and technology for grid operators of remote communities

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**Wildfire Energy** (Australia): Developer of a proprietary waste gasification technology called Moving Injection Horizontal Gasification (MIHG) which can process heterogeneous wastes to energy, hydrogen and chemicals without pre-treatment

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## MATERIALS & CHEMICALS



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**Avertana** (New Zealand): Developer of technology that turns low-value industrial residue into valuable minerals

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**Bluepha** (China): Developer of bio-based polymers and chemicals

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**Genecis** (Canada): Developer of a bacteria to turn food waste into poly-hydroxyalkanoates (PHAs), a high-quality bioplastic

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**Lamoral Coatings** (Netherlands): Provider of solutions to preserve and strengthen a wide range of materials to ensure that they last longer than a lifetime

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**Smarter Alloys** (Canada): Developer of new technology for Shape Memory Alloys to add extensive functionality to existing components and enable new products to be realized

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**VerdeEn Chemicals** (India): Developer and provider of a commercially viable green proprietary technology to recycle scrap lead acid batteries

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## RESOURCES & ENVIRONMENT

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**AirQuality** (China): Provider of air purification equipment and services

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**Ambi Labs** (Hong Kong): Developer of efficient air-cooling technology

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**Ambisense** (Ireland): Developer of an environmental analytics platform that enables companies across multiple sectors to estimate their environmental impact allowing targeted mitigation at a reduced cost

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**Blue Planet Environmental Solutions** (Singapore): Provider of fully integrated waste management solutions

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**CarbonCure** (Canada): Producer of carbon-sequestering equipment for precast concrete production

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**Drift Global Industries** (Singapore): Designer and developer of ecologically sustainable floating assets, ranging from residences to floating farms and data centers

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**Energy** (Netherlands): Developer of technology to recover raw materials (and energy) from problematic organic waste, extracting raw materials such as carbon, oil and gas from organic waste

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**EnvironSens** (Singapore): Provider of online monitoring system of heavy metal toxicity in water bodies and sewer networks

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**EnvisionSQ** (Canada): Developer of air pollution control technologies, using photocatalytic technology to break down NOx and VOCs, transforming these pollutants into harmless gases and water

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**FlexBase** (Netherlands): Designer of floating foundations used to build on the water for living, working, and recreational applications

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**Forward Water Technologies** (Canada): Developer of forward osmosis-based, low-cost treatment for highly compromised industrial wastewater

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**Hydroleap** (Singapore): Developer of a chemical-free, environmentally friendly wastewater treatment solution, using its unique electrical system

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**Kayros** (France): Developer of software which uses radar imagery and advanced data processing to estimate global crude oil inventories

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**Mint Innovation** (New Zealand): Developer of biometallurgical process to recover precious metals from difficult waste feedstocks. The scalable proprietary processes utilize highly selective metal scavenging microbes to rapidly absorb target metals

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**MolyWorks** (United States): Developer of a recycling foundry which converts metallic scrap into metal powders for additive manufacturing at the point-of-need

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**Pani Energy** (Canada): Developer of innovative Adaptive Desalination Technology (ADT) and Osmotic Energy Storage (OES) technologies in the fields of desalination and energy storage

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**Qi Square** (Singapore): Developer of a digital platform to achieve high performance buildings, including significant energy, carbon and costs savings while improving occupant comfort and wellness

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**RPM China** (United States / China): Developer of tree-seedling propagation solutions for enhancing reforestation, habitat restoration, and agriculture

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**Sagacity Environment** (Singapore): Developer of marketplace that connects buyers and sellers of recyclable goods

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**Taraph Technologies** (Singapore): Provider of waste management solutions for recycling plastic waste

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**Vecor** (China): Producer of ceramics from fly ash from coal fired power stations

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**Vigti** (Singapore): Developer of an automated remote monitoring platform for gas distribution pipeline networks

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**ZD Tech** (Thailand): Developer of Electro-Separation Technology (not electrocoagulation) to treat wastewater for reclaim and remove dissolved solids (TDS) and heavy metal using high voltage electric pulse without sacrificing electrodes

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## TRANSPORTATION & LOGISTICS



**Ai Robotics Technology** (Singapore): Developer of a transport technology platform leveraging artificial intelligence that transforms any people and goods mover into a Level 4 autonomous robot



**BlackBuck** (India): Developer of platform for logistics and fleet control management



**ETRAN** (Thailand): Developer of electric motorbikes with fast charging and charging station network solutions



**Evie Networks** (Australia): Infrastructure for Mobility as a Service to drive the clean transport revolution



**Gegadyne Energy** (India): Developer of a proprietary battery technology for electric vehicles that can charge 0-100% within 15 minutes



**Neuto** (Singapore): Developer of environmentally friendly hydrogen solutions for converting diesel engines, including engine diagnostics, emission data and vehicle internal condition monitoring



**Oyika** (Singapore): Provider of electric scooter subscription service with modular battery charging stations



**SmartE** (India): Provider of electric mobility service for first and last mile connectivity



**SUN Mobility** (India): Manufacturer and distributor of integrated electric vehicle rental solutions with modular batteries and charging solar arrays



**SWAT** (Singapore): Provider of shared mobility route optimization



**Teqplay** (Netherlands): Provider of real-time and predictive insights for the planning of quays, vessels, bunkering, and ship-to-ship transfers



**Transpod** (Canada) Developer of a hyperloop transport system based on the concept proposed in 2013 by Elon Musk