



Ministry of Economy and Industry
Foreign Trade Administration



THE ISRAEL EXPORT &
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ISRAELI CLEANTECH DELEGATION to the West Coast

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**THE ISRAEL EXPORT &
INTERNATIONAL COOPERATION INSTITUTE**



The Israel Export & International Cooperation Institute

The Israel Export and International Cooperation Institute is your premier gateway for doing business with Israeli companies. Established and funded by the government and the private sector, IEICI's expertise in technology and product scouting, joint ventures and strategic alliances with Israeli companies spans more than half a century.

Whatever your field is, IEICI offers access to relevant businesses and government resources. With expertise in Israel's leading Industries, IEICI will provide the information you need to connect, negotiate and do business.

The Cleantech, Energy & Environmental Technologies Department has an intimate acquaintance with the Israeli Cleantech industry exporters, which includes more than 400 companies, and about 200 start-ups. It has a proven ability to identify and match suitable potential business partners, organizing one-on-one business meetings and is a focal point for contacts with the government as well as with the industry.

Mr. Tal Hadad, Manager
Cleantech Sector
Tel: +972 3 5 142846
[E-mail: talh@export.gov.il](mailto:talh@export.gov.il)
www.export.gov.il/eng



Ministry of Economy and Industry
Foreign Trade Administration



The Foreign Trade Administration (FTA) at the Israeli Ministry of Economy and Industry

The Foreign Trade Administration (FTA) at the Israeli Ministry of Economy and Industry manages and supports Israel's international trade and trade policy by promoting trade and exports, initiating and maintaining trade agreements, attracting and facilitating foreign investments and creating strategic cooperation with foreign companies. Through our headquarters in Jerusalem together with over 40 economic and trade missions in key financial centers throughout the world, the FTA promotes Israel's economy worldwide.

Israel's economic and trade missions are at the forefront of the Israeli government's efforts to boost our industries in foreign markets. Our team of highly experienced economic representatives and business consultants provide a wide range of services to Israeli companies and to the international business community.

Mr. Gili Ovadia
Consul, Head of Economic and Trade Mission to the West Coast
The Israeli Ministry of Economy
www.israel-trade.net



The National Energy and Water Program

The National Energy and Water Program Israel NEWTech was established in 2006 under the leadership of the Ministry of Economy and Industry, with the participation of ten government ministries and official organizations. Israel NEWTech focuses on water and energy technologies and provides an infrastructure that encourages the development of technologies in this sector.

For more information on Israel NEWTech, please visit: www.israelnewtech.gov.il



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Company at a Glance

3PLW develops an industrial process for the conversion of organic waste into a high value feedstock for industrial biochemical manufacturing. The bioprocess can significantly reduce the production cost of bioplastics, paving the way for new applications and markets. The process efficiently utilizes all the components of organic waste with near-zero carbon emissions. The company operates a molecular biology and fermentation lab that designs and implements novel bacteria tailored for rapid and efficient recycling of organic waste. The company developed an end-to-end micro-pilot process in collaboration with the Bio Base Europe (BBEPP) Pilot Plant in Ghent, Belgium. The project demonstrates valorization of source-separated food waste streams from residential, commercial and industrial sources. 3PLW is a portfolio company of Hutchison-Kinrot which is owned by Hutchison Water, a division within the international conglomerate CK Hutchison Holdings Limited. The company is backed by Israel's Innovation Authority.

Technologies & Products

3PLW is developing a proprietary fermentation process to produce lactic acid, the building block of Poly Lactic Acid (PLA) bioplastic. The technology allows fast turnover of waste into product with retention times of 48 hours or less.

Novel bacteria enhance and accelerate recycling processes by mimicking the natural degradation process of organic waste in the environment. These unique bacteria also remove impurities and contaminants that previously prevented the industrial production of PLA from waste.

3PLW replaces costly bioplastic sugar feedstock (e.g., from corn, sugarcane, etc.) with a feedstock that generates additional revenues based on waste treatment gate fees. Sugar feedstock prices can account for roughly 50% of PLA production cost, which drives bioplastic manufacturers to build facilities in locations where sugar prices are the lowest (e.g., Thailand and Brazil). By utilizing organic waste as feedstock, 3PLW has practically no dependence on sugar or oil prices and these geo-restrictions are eliminated.

Goals

3PLW's objective is to scaleup the production process to demo manufacturing gradually over 24 months. Producing 500-2,000 tons of product annually will attract clients and potential manufacturing partners for a joint venture.

The Company's target markets include the US and Europe, specifically, Germany, the Netherlands, France and Belgium.

Category & Sub Categories

- Biochemicals
- Food & Agriculture
- Waste & Recycling



Company at a Glance:

Agam Energy Systems Ltd. is a privately owned company, founded by Colonel (Res.) Moshe Maroko (CEO), who was the Head of an IDF technological R&D Unit and twice received the "Israel Defense Award", and Dr. Gad Assaf (CTO), one of Israel's leading scientists who holds 60 U.S. and international Patents.

The company has raised the banner of energy saving. It researches, develops & manufactures revolutionary, energy-saving and environmentally-friendly systems for the industrial recreational and agricultural sectors.

Based on patented technology, Agam's products are highly cost-effective. Systems that are already in the market and have been field proven often save 50% of energy expenses. There are 2 lines of products: Heat pump line - cooling, heating and dehumidification systems • Heat engine line - compressors, turbines and engines.

Agam is currently looking for investment to further develop a turbine system for which it already has a working prototype.

Technologies & Products

Liquid Ring technology has been used for over 100 years; it's considered reliable but inefficient, due to high liquid friction. Agam's technology applies traditional Liquid Ring technology with Rotating Casing (LRRC) in innovative compressors/turbines. The rotating casing reduces liquid friction, thus increasing efficiency.

Agam's Thermal Hydrodynamic Model (ATHM) prediction was verified by three prototypes:

- LRRC Steam Turbine - novel concept of high-efficiency, low-temperature, steam turbine (LRRC-ST), with mechanical efficiency higher than 95% and general efficiency close to ideal thermodynamic efficiency; lower manufacturing costs and significantly more efficient than parallel technologies. Main usage - generating electricity from waste heat coming from gas turbines & diesel engines, thus creating small combined cycle.

Advantages of Agam's turbine: Low cost • Does not require superheating • Suits small & medium sized power plants.

- LRRC Compressor.
- LRRC Air Turbine.

Stages 2&3 - we shall use the same technology to develop an engine, increasing market volume furthermore.

Goals

- Target companies: Utility companies, giant turbine manufacturers and investors
- Countries: Mainly the U.S., China, India and Europe
- Objectives: Finish Turbine development • Manufacture 7 steam turbine prototype units, of 250kW electricity (each) • Finding a strategic investor

Category & Sub Categories

Main Category: Energy Saving

Sub Categories: Turbines • Wasted Heat • Energy Production



AugWind Ltd. | www.aug-wind.com

Company at a Glance

AugWind Ltd. is an Israeli based SME, founded in 2012 by Dr. Or Yogev. We are a young and innovative company that develops unique products in the fields of compressed air storage and energy storage.

AugWind has developed a compressed air storage solution which is 80%-90% more cost effective than any other alternative.

The company solution demonstrates up to 45% compressed air energy cost reduction at industrial plants where it is already commercially installed.

Technologies & Products

The need - compressed air is used for many applications in industry, representing a significant portion of total electric costs for many industries in many cases summing up to hundreds of thousands of \$ annually.

Currently, most compressed air is “created” instantaneously in response to demand. This leads to rapid fluctuating of the air compressors load and as a result to massive energy waste.

The solution - using a large volume tank to act as a “buffer”, stabilizing the system and dramatically reduces the energy waste.

AugWind’s innovative elastic components and installation processes harness earth geo-mechanical properties for storing the air - AugWind’s tank applies the soil as an infinite and cost effective wall. The end results is a large volumes tank at a very cost effective manner. The unique solution, costs less than 50% of any alternative, making it for the first time economically viable.

Goals

AugWind aims to apply its unique solution in order to reduce energy costs for a large portion of the heavy industry. Thus both reducing waste and pollution as well as increasing profitability for its clients.

Category & Sub Categories

Main category: Energy Efficiency & Energy Storage

Sub Categories: Industrial Energy Efficiency

Mid-Large Energy Storage

Peak Shaving



BladeRanger



Blade Ranger Ltd. | www.bladeranger.com

Company at a Glance

BladeRanger is developing robotics and drone technologies for cleaning and inspecting solar panel installations, at all scales – from the home (our NAKAI product) through medium-size rooftop installations (our Pleco product), and to large-scale fields (our 3P system). Future is airborne...

Larger installations (power-plant segment) and smaller installations (residential segment)
Coordinated inspection and cleaning
Drone/robot active connectivity arm
Future application areas. Security and surveillance; window and outside wall cleaning in skyscrapers and complex structures.

Technologies & Products

We are developing scalable robotic solutions for all PV market segments: PLECO: Water-free, cleaning and inspection robot made for small-to-medium installations (up to 2MW). The PLECO works autonomously, but can also be controlled from a smartphone. Its Industrial IoT capabilities provide analysis of cleaning and inspection results. The PLECO robot is already undergoing testing in select installations. It can work in slopes of up to 45°. 3P: Complete automated solution for cleaning and inspection of larger fields (2MW+) using UAV (drones) to move PLECO robots between rows, and a hangar for charging and storage during daytime. The 3P system includes comprehensive data analytics at the power-plant scale, allowing optimal scheduling of cleaning activities for improving production, panel fault warnings, and more. NAKAI: Consumer solution for residential/small installations (up to 10KW), consisting of a combined cleaning robot/drone. The NAKAI, currently in early development stage, is flown to roof-top installations (machine-assisted flight), and autonomously cleans the panels while being monitored from a smartphone app.

Goals

Over the last year, BladeRanger has completed a working prototype of the product. And as for BladeRanger's requirements on the business side, we are currently looking for a second round of investment (Round A) of \$5M that will provide us finance support to complete our first products along with worldwide marketing and sales capabilities.

Category & Sub Categories

Main Category: Robotics

Sub Categories: Drones

AI

CleanTech



Brenmiller Energy Ltd. | www.bren-energy.com

Company at a Glance

Brenmiller Energy provides sustainable energy storage solutions to the distributed generation market. The company was founded by Avi Brenmiller, former CEO of Siemens CSP and Solel, and a team of experts in the field of renewable energy. Brenmiller Energy's knowledge and expertise are based on years of field experience in designing, building and operating solar power plants in Spain and in US of over 500MW. Recent accomplishments include being awarded a \$1M grant for a joint project with the New York Power Authority, where the company will supply electricity and heating to a university within New York, as well as being awarded a grant by the Ministry of Defense for an energy storage project, where the company will provide a mobile-based CHP unit for the Israel Defense Forces. The company completed a successful IPO in August 2017 and is now being traded on the Tel Aviv Stock Exchange.

Technologies & Products

Brenmiller Energy has developed a unique storage-based generation unit called the bGen™. The bGen™ is comprised of 3 key elements - storage, heat exchangers & steam generator - all inside the same unit. The unique integrated design, which minimizes equipment cost, coupled with a cost competitive storage media, significantly reduces storage prices to \$1 cent per kWth stored. The use of crushed rock media as the storage material ensures no performance degradation and no hazardous challenges to the environment, even after tens of thousands of charge/discharge cycles with no need for replacing the material during its lifetime. Additionally, the technology increases efficiency, as it can accept multiple heat sources as fuel (renewable or other) and can be charged electrically using embedded electric heaters within the bGen™. Thus, Brenmiller Energy can precisely match the energy demand by utilizing all available energy resources and provide energy upon demand, bridging the gap between renewables and conventional power.

Goals

Target Countries: USA, Australia, South Africa, Israel

Type of companies/organizations: Utilities, IPP's, Developers

Objectives: Provide flexible solutions, enabling constant supply of electricity at affordable prices, while reducing emissions in the process.

Category & Sub Categories

Main Category: Thermal Energy Storage

Sub Categories: Technology Provider
Energy Provider



Capital Nature | www.capitalnature.com

Company at a Glance

Capital Nature has a successful portfolio of 13 start-up companies with unique, strong patent-based technologies.

Highlights include companies like:

- **Chakratec** (unique kinetic battery solution for fast charging of electric vehicles),
- **BladeRanger** (robotics based autonomous solar fields inspection and cleaning based on robotics and autonomous cleaners),
- **Augwind** (the most cost effective compressed air energy storage solution available),
- **Solview** (the most accurate solution for Mass Scale rooftop analysis for both residential and commercial buildings),
- **TruckNet** (automatic truck ride sharing for trucking companies - interfacing to their optimization/TMS platform),
- **Electroad** (electric public transportation for urban centers with NO battery required on board),
- **Roadix** (urban personal vehicle - fully foldable 3-wheel scooter),
- **ZevaLED** (unique LED bulbs with true healthy sunlight spectrum, and patented uniform more luminous bulbs),
- **EngageIoT** (automatic software code generation with patented security for IOT devices),

Capital Nature was granted by the State of Israel to operate the Israeli National Green Energy Center, 100% leverage our CN investments funds.

Goals

Our goal is to meet potential strategic partners and investors, both for Capital Nature (the gateway to Israel's Cleantech innovation space), and our portfolio companies.

Category & Sub Categories

Category: Clean Energy Technologies

Sub Categories: Energy Storage

Electric Transportation

AI for Energy



Company at a Glance

Chakratec, established in 2013, Developed a Kinetic Power Booster for Fast DC Electric Vehicle chargers The fast DC chargers consume very high power from the grid therefore in order to install them, an expensive grid upgrade is necessary. Our system allows installing such chargers in places with limited grid infrastructure eliminating the need for grid upgrade. The Kinetic Power Boosters are significantly more economical than other storage solutions like Li-ion Batteries. Our kinetic local storage system caters for the expected growth in EV penetration that requires a more efficient and comfortable solution, is easily deployed, sustainable and eco-friendly.

The core technology is based on patented flywheel concept with limitless number of deep, high power charge cycles. The technology is proven following a yearlong pilot in Israel. We are working with top tier pilot customers deployment in Italy, Austria and Hungary.

Technologies & Products

Chakratec's revolutionary Kinetic Power Booster, fills the gap between batteries and Super capacitors and conventional flywheels. It is optimal for discharge time of 5-30 minutes applications.

- Optimal for multiple high power deep charging cycles per day.
- Sustainable for a period of 20 years of operation
- Eco-friendly and the only one in the market that is totally clean, not chemical, not toxic and not polluting.
- Integrates with all types of energy sources and very easy to deploy.
- Attractive leasing based business model, accelerating the customer payback period.

Available products: kinetic power boosters

- **100K:** 10' Container / Charge 1 concurrent EV with 100kW for 10 minutes / Only 30kW drawn from the grid
- **240K:** 20' Container / Charge 2 concurrent cars with 240kW for 10 minutes / Only 80kW drawn from the grid

Additional Applications: Grid Stabilization, Energy Trading, Micro Grid, Generator Continuity

Goals

Customers, partners and distributors: car manufacturers, charging networks, utilities and traditional gas stations who seek:

- Enabling Fast Charging everywhere, even in locations with weak grid
- Reducing Peak power demand by 70%, monthly electricity bills by 50%
- A viable business model and unprecedented payback period, no maintenance or replacement, unparalleled ROI

Category & Sub Categories

Category: Smart Energy Storage

Sub Categories: E-Mobility, Fast and Ultra-Fast EV Charging, Grid Stability



Company at a Glance

ECOConcrete® developed a revolutionary science based approach to eco-engineering of coastal and marine infrastructure, providing bio-enhancing, resilient, cost-effective concrete solutions to global Climate Change threats like Sea Level Rise and superstorms. With nearly 60% of the world's population concentrating along coastlines, accelerated coastal development which inflicts severe stress on natural ecosystems is inevitable. Combined with increasing Climate Change threats, coastlines world-wide require extensive development, replacing rich and diverse natural habitats with barren concrete seawalls, breakwaters and alike. ECOConcrete® is here to revolutionize the industry, and bring concrete infrastructure to life through proprietary bio-enhancing concrete additives, and designed forms, that reduce the structures' ecological footprint while increasing their strength and durability. In addition, ECOConcrete® products can integrate various IoT sensors, capable of gathering valuable environmental data streams.

With a patented technology showing substantial traction and an immense global market, ECOConcrete® plans to change the way future coastlines look and function.

Technologies & Products

ECOConcrete® tailors robust, cost-effective, concrete solutions that harness biological processes for the benefit of the environment on one hand, and of the structure on the other. The patented technology is based on 3 core elements working in synergy: Bio-enhancing concrete composition + High surface complexity + Science based 3D designs. Our current line of products includes ecological armor units; enhanced seawalls; articulated marine mattresses; ecological pile encasement; designed tide-pools; and bio-active wall (for terrestrial applications). All ECOConcrete® products can integrate sensors that enable efficiently collecting a sea of data. ECOConcrete® technologies add biological functionality to standard construction elements without changing their engineering functionality, nor compromising structural performance. Moreover, enhanced growth of corals, oysters, and alike strengthens the concrete and provides valuable Bioprotection. In addition, all ECOConcrete® products have a reduced carbon footprint compared to "gray" concrete, due to a combination of proprietary concrete mix, and enhanced biological processes.

Goals

ECOConcrete®'s goal is to dominate the eco-engineering market, adding ecological value and structural integrity to mega-infrastructure projects world-wide. We target landscape architects, design-build, and engineering firms globally.

Currently, we aim to form strategic partnerships in CA, and introduce the company to potential investors interested in joining our current A-Round.

Category & Sub Categories

Main Category: Clean Tech / Construction Tech / Blue Tech

Sub Categories: Coastal & Marine; Environment; Concrete



iPV Solar | www.ipvsolar.com

Company at a Glance

iPV solar is a division of M.G. Lightning Ltd, an electrical engineering design and consulting firm specializing in machine learning algorithms for advanced statistical performance monitoring of solar PV systems requiring no input from the generator other than inverter data. This division has received 3 grants from the Israeli ministry of energy and one grant from the ministry of Economics. The company is comprised of electrical engineers specializing in electrical distribution grids and PV field engineering working with specialists in machine learning, code writing and data base management. The company enjoys a strong R&D relationship with the University of Cyprus developing products under the Solar-era.net program.

Technologies & Products

iPV solar has developed machine learning algorithms that predict the next day's hourly generation of any solar PV inverter without the use of sensors or knowledge of the system configuration. The algorithms also show promise in predicting failures before power loss occurs.

These algorithms are the core technology for the following products:

- Reducing spinning reserve by making available to the grid manager each neighborhood with installed PV as a virtual power plant with next day's hourly generation delivered every evening
- Enabling distribution grid owners to manage voltage on grids with high PV penetration by planning PV production of active and reactive energy for each inverter.
- State of Health report every morning to the owners of small solar PV systems with no performance monitoring capabilities
- Early warning of impending system faults
- Early warning of accelerated PV module array degradation

Goals

iPV solar targets utilities, service companies serving the utilities, energy traders, solar maintenance contractors and monitoring companies with the objective of supplying SaaS services for individual system health reporting, improving efficiency in selling solar energy on the next day market and grid stability. Target countries include Israel, United States, Germany and Australia.

Category & Sub Categories

Main Category: Clean Tech

Sub Categories: Smart Grid

Energy Trading

Virtual Pv Power Plants



Company at a Glance

The 21st century is the biotech era. Biotech processes are pivotal and extensively used in all aspects of the human ecosystems. However, biology is complicated, unpredictable, and in many cases delicate and difficult to control. Many industries, in order to realize their potential and achieve efficient cost-effective processes, require next-gen solutions which would enable outstanding efficiency, accuracy and precise control over the cells/microorganisms.

NanoSpun does it via proprietary, game-changing, nano-micro scale engineering. NanoSpun develops and manufactures the most advanced, revolutionary, physical structures (active biological fabrics and cassettes), fermenters and reactors that harness, enable, and empower highly effective, and highly controlled advanced biological processes. In simple words, NanoSpun is the global leader in transforming biology into engineering.

NanoSpun's products and technologies have far-reaching disruptive effects on human life and the environment, including: Water and wastewater treatment, gas filtration, synthetic biology, green chemistry and fermentation, as well as health and nutrition.

Technologies & Products

NanoSpun's next generation Water and Wastewater (W&WW) treatment products are called Modular Biological Cassette Reactor (MBCR). The MBCRs represent a new and novel approach to W&WW treatment. It offers the following properties:

Revolutionary cost-effective, highly efficient, sustainable solution • Performance even in toxic, inhibiting and challenging environments • Removal of specific contaminants in extreme levels (high and low) • Maintenance of ongoing efficiency and control over biologically based treatment processes • Game changing products based on the company's proprietary 'active biological fabrics' technology which enables encapsulation of biological and non-biological elements • NanoSpun 'Biology as Cassette' systems ensure long-term and reproducible process by real-time maintenance procedures • High concentration of designated biological agents and exceptional surface area for optimal treatment • Modular, small footprint and easy to operate systems

NanoSpun products have already proven very effective in various harsh environments including high ammonia concentrations, herbicides and pesticides, halogenated organic compounds, detergents, phenols, pharmaceuticals compounds and hydrogen peroxide.

Goals

NanoSpun's goal is to revolutionize the space of biological-based treatment and production processes as known today. We look forward to collaborating with value-added commercial and financial partners, which wish to join us in propelling NanoSpun disruptive products and technologies, and are inspired, like us, by the NanoSpun opportunity and vision.

Category & Sub Categories

Water And Wastewater Treatment

Air And Gas Filtration

Synthetic Biology, Green Chemistry and Fermentation Processes



Nostromo | www.nostromo.energy

Company at a Glance

Nostromo has developed an innovative thermal energy storage system for commercial customers like hotels, shopping malls, Airport terminals, big retail stores, office buildings, and actually, whoever is using central water chiller system for its air conditioning, Nostromo's IceBrick is a game changer thermal energy cell, which enables us to build the most cost-effective energy storage system in the world.

Technologies & Products

More than a 1/3 of any national electricity peak is subjected to thermal comfort systems demand e.g. chillers and air conditioners. This peak has a huge down effect on grids economics, transmission losses, maintenance costs, reliability and growth of renewables. Nostromo's IceBrick is a revolutionary thermal storage cell which enables us to build a 50% less expensive system (we are targeting a turn key project cost of \$300 per each kWh storage capacity - with no degradation over 20 years lifespan - and its installation is seamless while no special real estate resources are needed.

Goals

Our system is designated to bring a permanent load shift capabilities to commercial buildings such as: office buildings, hotels, shopping malls, hospitals etc.

Our targeted geographic markets for penetration into the US are: New-York, California and Hawaii.

We are looking for strategic partners in the US, such as electric grid operators, real estate holding companies, and Chillers manufacturers.

Category & Sub Categories

Energy Storage - Ice TES, Behind The Meter Energy Storage, Permanent Load Shift Solution



Company at a Glance

Raycatch is AI diagnostics for solar energy. Our mission is to automatically increase plant yield and decrease operational and maintenance costs, improving plant profitability and removing the need for manual monitoring.

Our app, DeepSolar, analyzes production data on a daily basis, deriving actionable insights and generating a detailed task list with specific actions that can be taken to maximize returns/yield of the plant. Our insights are ROI driven and include panels under warranty, maintenance on demand (dust + grass), disconnected cables, PID, temperature coefficient, MPPT/Inverter efficiency, tracking systems and many more insights.

The software runs in the background independently of monitoring systems, allowing owners and managers to zoom into their portfolio and easily identify where energy and revenue losses can be recovered down to the smallest monitored level.

Today, we operate worldwide on over 1 GW, including those by leading global players: KGAL, GE, EDF, and many more.

Technologies & Products

DeepSolar connects to the data stream that is generated from existing monitoring solutions, cleaning the data and training the algorithm to decipher the nature of the cause of production loss (RootCauseAnalysis). After quantifying the RCA, a ROI driven recommendation is given.

Our key differentiator is the ability to clean the noise from the existing stream of data, using proprietary algorithms combined with the deep understanding and modeling of the different components of solar plant operations.

In order to crack the data insights, we use Artificial Intelligence, pattern recognition and mathematical models that reference the electrical system without need for human intervention. Our analysis zooms in up to the string level, cleans the data and provides accurate insights; with unimaginable 1% accuracy. All of this occurs without any interference in the plant operation or hardware installation.

Goals

Our goal is to enable the development of the solar market, perfecting the way in which solar assets perform and are maintained.

By deciphering solar energy data, yield will increase and operational costs will decrease. Our target is to strengthen our US presence by expanding our customer base in the US.

Category & Sub Categories

Main Category: Solar Energy

Sub Categories: Artificial Intelligent / AI
Software as a Service
Optimization



Company at a Glance

Zero Energy Solutions is an emerging Israeli developer of smart & scalable energy solutions. We provide autonomous, easily installed scalable energy optimizers for various verticals. We develop Energy Intelligence capabilities for our customers.

Our easily installed sets of smart controllers and multi-sensors are wirelessly connected to our smart cloud-based software. We use big-data analysis and sophisticated algorithms to automatically optimize energy consumption, while maintaining comfort.

We believe in:

Zero Energy - There is enough energy around us to support our needs.

IOT - In a short while all energy devices will be connected.

Energy Intelligence - Optimization can be reached through big data based automation.

Simplicity - Connecting and Operating should be quick and intuitive.

Technologies & Products

The Oak is a smart room energy optimizing system, designed for existing multi-room structures, such as hotels and nursing homes.

It provides immediate remote, monitor and control capabilities via web connected devices. It is **compatible** with all kinds of air conditioning and heating systems (thermostat/ IR/ manual control). It relies on multiple wireless room sensors and operates energy systems through IR receptors, valves and contactors. It is **quickly and wirelessly deployed**, enabling **scalable** connectivity with central building control.

Software includes **artificial intelligence** capabilities, analyzing room data from every sensor and providing summaries, recommendations and alerts. It automates room climate settings according to end user routines, weather changes and peak-demand tariffs. A sophisticated algorithm analyzes thermal behavior and maintains climate comfort, while minimizing energy consumption. The Oak system delivers 25% to 45% in room energy consumption.

Goals

We are currently targeting the North American market (US & Canada).

Our NA launch effort is focused on 2 marketing segments:

- The hospitality management segment (hotels and motels owners and management companies)
- The senior living communities segment (nursing homes and assisted living networks).

Our San Francisco cleantech forum objectives are to present our company and interest potential investors in our upcoming A-Round.

Category & Sub Categories

Main category: Energy Efficiency

Sub categories: IOT- Internet of Things

AI - Artificial Intelligence

Energy Management



CLEANTECHFORUM

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