



Ministry of Economy



The Israel Export &
International Cooperation Institute



Israel
NewTech

National energy & water program

Energy Efficiency Technologies Israel Cleantech Company Catalogue



Government of Israel

www.export.gov.il

www.israelnewtech.gov.il

Companies Index

AQUA - RIMAT.....	4	Metrolight	12
Better Air Ltd	4	Panoramic Power.....	12
Ball-Tech	5	Phoebus.....	13
CES.....	6	SolarOr	14
Cool Air Design	7	SwitchBee.....	15
CQM	7	TIGI Ltd.....	15
DuCool.....	8	Chen Liquid Heater Ltd.	16
enVerid Systems.....	9		
eSave - Power-Saving Systems ...	10		
GREEN POWER SOLUTIONS - G.P.M	10		
Lightapp Technologies	11		
Magen eco-Energy.....	11		

The National Energy and Water Program

Israel NEWTech was established in 2006 under the leadership of the Ministry of Industry, Trade and Labor and with the participation of ten government ministries and official organisations. 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 website: www.israelnewtech.gov.il

The Israel Export & International Cooperation Institute

The Israel Export & International Cooperation Institute, founded in 1958, is supported by over 2,600 member firms, private sector bodies, and the Israeli government. The Israel Export & International Cooperation Institute promotes business relationships between Israeli exporters and overseas businesses and organisations.

Energy & Environmental Technologies Department

The IEICI's Water & Environmental Technologies Department has an intimate acquaintance with the Israeli Water, Renewable Energy & Environmental industry exporters, which includes more than 400 companies, and about 100 start-ups. It has a proven ability to identify and match suitable potential business partners, organising one-on-one business meetings and is a focal point for contacts with the government as well as with the industry. By providing a wide range of export-oriented services to Israeli companies, and complementary services to the international business community, the institute helps to build successful joint ventures, strategic alliances, and trade partnerships.

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One goal - Wide partnership

The Israel NewTech national program is led by:

Ministry of Economy Foreign Trade
Administration - Investment Promotion
Center, Ministry of National Infrastructure

Members:

The Israel Export & International
Cooperation Institute | Prime Minister's
Office | Ministry of Finance | Ministry
of Foreign Affairs | Ministry of National
Infrastructure | Ministry of Environmental
Protection | Ministry of Science Culture &
Sport | Ministry of Agriculture | Ministry of
Negev and Galilee | Public Utility Authority-
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The Israel Export Insurance Corp. Ltd. |
Economic Planning Administration |
Knowledge-Intensive Industry
Administration | Manpower Training and
Development Bureau

AQUA - R I M A T

Water Alarm Systems - Total Smart Water Management & Leak Protection

Category: End User, IT & BI System, Control Systems, Energy Efficiency, AMR, Cleantech, Control & Monitoring, Pressure Monitoring, Protection, R&D, Water Quality, Analyzers & Controllers

www.aquarimat.com

Company activity in a nutshell

Aqua Rimat is an innovative Hi Tech company that develops End User water management and water damage prevention systems. Our products provide a sophisticated and precise monitoring tool that learns End-users water consumption patterns and helps manage them online. We can also monitor water pressure and water quality i.e. temperature, conductivity, PH, chlorine, etc.

Technologies & products

LeakBuster™ manages water at the end user point. It monitors incoming water, uses artificial intelligence, and communicates with the user, enabling immediate detection of any leak or anomalies. allIGATER™ allows water supply only when needed. By using allIGATER, business can protect their property from water damage and reduce their consumption.

Objectives / Target companies

Aqua-Rimat's innovative systems are already installed in many residential buildings and offices in Israel. Our main objectives today are: To accelerate penetration to global markets by cooperating with strategic partners.

Partner with key investors and expedite R&D for next generation systems, enhancements and added value attributes.

Better Air

-
-

Category: Green building

Sub Category: Air Quality Improving, Green building

www.better-air.com

Company activity in a nutshell

Since 2010, Better Air has been developing solutions to enhance Indoor Air Quality and solve problems associated with the Sick Building Syndrome. Better Air is the developer of BioZone Probiotics™, a completely safe and ecological system that strongly lowers the risk of Pathogen and allergy outbreaks in any indoor space. BioZone restores and preserves the natural balance of our Biological Ecosystem, creating a healthy environment in closed areas. Whenever deployed, the treated space becomes a safer, balanced, more pleasant and healthier place for its inhabitants.

Examples of projects

we installed our system in Azrieli towers. we have a system in the Israeli Opera house. we have installation in Hilton Metropol in London. we solved a problem of bad odor that came from the air conditioning system.

Technologies & products

By gently evaporation our patented natural environmental probiotic (NEP) formula, BA 008 creates a healthy indoor environment protected from most causes of allergies and dangerous pathogens. BA 008's NEP provides a microscopic layer of probiotic micro-flora which protects indoor surfaces. Moreover, the probiotic micro-flora reaches places that are normally are difficult to reach such as air condition ducts; places that are well-known nests for dangerous mold and other harmful bacterial contaminations. The spread of probiotics clean and enhances the inner air quality circulations.

Objectives / Target companies

we are looking for distributors around the world.

Category: Anti scaling treatment & Water filtration

Sub Category: Heat exchangers automatic tubes cleaning, Drinking water, Industrial waste treatment, Waste water treatment

www.balltech.co.il



Company profile

Ball-Tech Energy Ltd specializes in the development, production and marketing of condenser's and heat exchangers water's deposits automatic cleaning systems, anti scaling treatment and water filtration.

Year of establishment: 1994

No. of employees: 8

Background of the company

Ball-Tech Energy Ltd designs and produces its products according to the strict design and manufacturing standards of ASME 31.3 and ASME VIII div1 2004

& 2005. The company's products are suitable for implementation on systems using water from the municipal grid, rivers as well as sea water.

Ball-Tech Energy Ltd's client list spans numerous fields and includes some of leading industrial conglomerates.

Examples of projects

Intel, STMicroelectronics, Sasol (oil refineries) Hospitals, Airports terminals, Nokia, Hitachi.

Technologies & products

ATCS (Automatic Tube Cleaning System).

Ball-Tech ATCS for deposit removal keeps absolutely and permanently heat exchange and condensers tubes clean. The system is fully automatic operates without an external energy source and with no moving parts. (By keeping heat exchanger's tube clean consumed energy reduced up to 20% (energy saving).

Electrolytic Scale Remover (SR)

Specially design to protect and increase cooling towers efficiency.

Advanced Whirled Sand media Filter (WSMF)

Ball Tech Energy Water Saving Automatic Whirled Sand Media Filter designed for filtration of sticky contaminated water applications where sand grains adhere to each other, cause filter clogging and simple back wash is not affected.

The unique property of this filter is that the sand washing is automatically performed outside the filter by very little water. (Saving about 95% of any other automatic filter technology).

Objectives / Target companies

Expend ad sell the ATCSs to American companies with whom we already have good references like Intel and Pfizer.

Select and contact synergetic partner.



Category: Energy Management, Smart Grid
www.c-e-systems.com

Company profile

Year of establishment: 2007

No. of employees: 19

Background of the company

Private company: Originated as Target High Tech in 1989. Re-structured into CES in 2007.

Business Sectors: Building Energy Management, Electrical Vehicle Charging, Low-cost Home automation

Channels: Distributors and business partners.

Primary Investor: AquaAgro Fund (Israel)

Applications: Peak-Load reduction, Sub-metering, EV charging, Alternative source Integration, Load management.

Examples of projects

- Demand Side Management for Israeli Electricity Company (100 apartments & homes)
- Electricity distribution management for 4-floor office building (in South Africa)
- Sub metering and load management for an apartment building (48 flats in Russia)
- Home energy management system for a Smart-Grid neighborhood (50 homes in Austin Texas, USA)
- Home energy management system (50 homes in the Toronto area, Canada)

Technologies & products

General description:

CES is the developer and manufacturer of a computerized electricity distribution panels that enable users to optimize energy use and save substantial capital and operating expenses. CES panels replace the conventional A/C panels and provide built-in metering, control, safety and automation capabilities.

Function of the product(s):

- Smart Switching: Monitor and connect/disconnect circuits based on business logic or management commands. Automation. Remote control from Web or from external management system. Real time alerts. remot maintenance. Detailed history enabling detection of waste and functional problems.
- Sub-metering by individual circuit.
- Reduce operational cost by shifting low priority consumption to low-cost hours. Take advantage of Utility-offered incentives for off-peak consumption.
- Integrate your renewable energy source, either for selling energy to the Utility, or for utilizing that energy on-site. The Smart Panel will enable automatic shifting of loads from one energy source to another based on price and availability.
- Reduce the size of your backup generator and its integration cost, eliminating altogether the need for special circuitry and contactors.
- Automatic Phase balancing - improving utilization of existing Grid connection.

Objectives / Target companies

- Distributors of electrical equipment and control systems
- Utility companies in context of Smart Grid & Peak Demand Management
- Electrical Vehicle Charging infrastructure providers



Design, Production and Delivery of Energy Solutions for Solar Systems and Air Conditioning

Category: Analyzers for Air Conditioning and control systems, Consulting and engineering services

Sub Category: Advanced air conditioning and Air design products energy-saving orientated.

www.cool.co.il

Company activity in a nutshell

Cool has over 50 years of experience in the Air conditioning field and Energy savings. Our R&D team always seeks the next technology in order to bring to our customers the added value of energy saving with design products.

Examples of projects

Consulting and implementation of HVAC systems for Isrotel hotels, Banking institutions and Luxury Homes across Israel.

Technologies & products

- **Cool Automation / CoolRemote** specializes in the development, design and manufacture of unique Control products and solutions for HVAC \ VRV systems.
- **Invi** - designed Air Diffusers and Access panels combined with Quality LED lighting aimed to streamline the operations of the air conditioner to save energy and also to look good
- **Solcrafte** - A revolutionary new system that produces domestic hot water using the power of the sun. Solcrafte® Style is more efficient than traditional thermosyphon systems. It has half the size and weight of traditional systems, but is especially economic and cost saving.

Objectives / Target companies

Our mission is to Incorporate design and energy savings. Using breakthrough technology based on research and development and the long years of our experience in Air conditioning systems. We target to achieve Consulting and implementation of HVAC systems for hotels and public buildings.



Innovative Anti-Fouling and Energy Efficiency Solutions that Keep Industrial Systems Clean

Category: HVAC Cooling towers water & energy saving in industry and commercial, Renewable energy, Energy efficient

www.cqm-tech.com

Company activity in a nutshell

CQM a Cleantech Company develops and markets innovative anti-fouling and energy efficiency solutions that keep industrial systems clean and continuously efficient. Its anti-fouling systems allow customers to achieve increased operational outputs, reduced O&M costs, maximum efficiency and overall performance.

CQM has developed a breakthrough product for the CLEANTECH sector by promoting energy efficiency and environmentally sound solutions to fouling, one of industry's oldest and most pervasive problems. Since 1996, CQM has been selling its patented **Automatic Tube Cleaning Systems (ATCS)** for heat exchangers and condensers providing:

- more efficient operation
- substantial energy savings
- reduced shutdowns and maintenance costs
- minimal need for chemicals

The market for our products is vast, with our targets including: ● Facilities ● Power Plants ● Industry

Technologies & products

- **ATCS-** Patented Heat Exchanger Automatic Tube Cleaning System.
- **SRCL-** chlorination on site by electrolysis for remote drinking water site and sanitation of hot water systems in hospitals.
- **SRS-** Chemical Free Water Treatment System for industrial close and open water cycles: cooling towers, cooling and heating loops, etc.

Objectives / Target companies

Energy efficiency solutions, water treatment, power plant.



Category: HVAC, Energy Efficiency, Renewable Energy & Solar Cooling

Sub Category: Liquid Desiccant Dehumidification

www.ducool.com

Company profile

DuCool Ltd. is an Israeli firm designing and manufacturing products for Dehumidification and Cooling. The DuCool systems cool, heat, dehumidify, disinfect and clean the air while providing concurrent and independent control of temperature and humidity. DuCool's systems can be configured as a stand-alone solution or can be coupled with existing conventional systems to provide a superior hybrid application.

Year of establishment: 2006

No. of employees: 50

Background of the company

The DuCool team with its world-recognized 20 years experience in the air treatment field has designed and built until today over 4,000 units in more than 50 different countries around the world, applied in various industrial and commercial applications.

Examples of projects

- **Germany** - Meat processing factory - over 40% energy savings compared to alternative A/C system (2 month ROI)
- **India** - Pharmaceutical Company - Cost saving dehumidification & cooling solution (ROI -3.5 years)
- **Thailand** - Operating Theater - Maintaining clean room design conditions 24/7
- **Singapore** - Plastic industry - Energy saving and increase of production efficiency
- **China** - Telecommunication network company - Energy saving and clean Room air treatment solution
- **USA** - Ice rink arena - Full energy efficiency project. Energy savings of 60%

Technologies & products

DuCool's patented liquid desiccant technology dramatically alters the value proposition for HVAC in humid environments, resulting in reduced operating (energy) costs, improved comfort, reduction of mold and mildew, elimination of unpleasant odours, and greater indoor air quality (IAQ).

Unique Selling Points

- **Peak shaving-** Reduced Operating Costs and Energy Savings- DuCool's operates in the field of HVAC which is one of the significant factors for peak loads. DuCool's applications as standalone air treatment units or added to an existing HVAC systems installations have achieved energy savings of over 50% (relative to the situation before DuCool was installed). When humidity load is high the system will prevent over sizing of HVAC systems and will significantly decrease the energy consumption.
- **Green-** Environmental Friendly- DuCool's DuHandling series is a Refrigerant-free (no compressor) HVAC system. The DuHybrid / DuHandling can use relatively low temperature waste heat from: cogeneration systems, micro turbines or solar thermal heat as its main source of energy. Also, it can use relatively high cold water temperature (15-25°C) from ground source water or cooling towers to generate efficient cooling.
- **Air Quality-** Disinfect Air, The DuCool process eliminates bacteria and air borne microorganisms in a single pass. Filter air process removes 77% of particle larger than 5 microns, removing allergens such as pollen and dust from the air. Improved human comfort. DuCool products successfully address IAQ by helping meet fresh air requirements.

Objectives / Target companies

DuCool offers air treatment solutions for commercial and industrial applications.

From energy reduction and improved air quality in office buildings, retail stores, and restaurants, to dehumidification in plastic Injection moulding plants, pharmaceutical plants, food processing plants, clean rooms, hospitals operating rooms, ice rinks and many more.



Category: Energy Efficiency

Sub Category: HVAC

www.enverid.com

Company profile.

enVerid Systems introduces a new energy saving offering for Heating, Ventilating and Air Conditioning (HVAC) systems, based on breakthrough air treatment technology. The HLR (HVAC Load Reduction) module, the flagship product of enVerid has successfully shown energy savings of 40% in demo installations in the US and Israel. enVerid operates in US, Singapore and Israel and has partnerships with major companies in the HVAC industry and the green building arena.

Year of establishment: 2010

No. of employees: 6

Background of the company

It is widely known that outside air ventilation accounts for a major part of an HVAC system's overall energy consumption. This ventilation is necessary in order to counter the buildup of indoor air contaminants like CO₂ and volatile organic compounds (VOCs). Reducing the amount of outside air, if possible, would result in a substantial reduction of energy consumption. The idea behind enVerid is simple but powerful: eliminate the unwanted contaminants instead of replacing the air, and achieve two objectives: significant savings and better air quality.

Examples of projects

A prototype HLR module was installed at Elbit Systems in Haifa in 2012 demonstrating substantial energy savings and a commercial HLR demo module was installed in San Antonio, Texas in 2013. Data from those installations have shown energy savings of 40% during the summer

Technologies & products

General description:

enVerid Systems offers a new air treatment and energy saving technology for HVAC in commercial buildings. The key idea is to reduce the intake of outside air by the HVAC system. Outside air is used in order to maintain good air quality inside the building but since it is hot and humid significant amount of energy it required in order to cool it. The reduction in outside air is achieved by a number new material technologies developed in the last decade at leading US universities and government labs, and is enhanced with novel mechanical designs and sophisticated software that optimizes the energy performance and creates a holistic solution for air recycling. There is a considerable reduction in the intake of fresh air and hence a significant amount of energy is saved.

Function of the product(s):

The HLR module enables a very large reduction of outside air without compromising indoor air quality, providing substantial energy savings. The HLR is designed as an add-on for retrofits to existing HVAC systems, allowing simple and low cost installation without replacement of pre-existing infrastructure. In development, as the next-generation offerings, are integrated products for new installations and a solution for smaller, distributed HVAC systems. Energy savings can vary from 20% to 50% depending on a number of factors like climate and building occupancy. All products have in common the use of periodically replaceable cartridges with the sorbent materials, which will be controlled and distributed solely by enVerid systems.

Objectives / Target companies

The company's objective is to establish channels to commercial real estate customers, including HVAC engineering and contracting companies, real estate developers and management companies, utilities and regulatory agencies, and large owner-occupied businesses in retail, offices and public buildings.



eSave Ltd.
Power-saving systems

Specializes in Delivery of Power, Quality and Savings to the Consumers

Category: Energy Efficiency | **Sub Category:** Power Saving Systems - Unique solution for the entire consumers in the building

eng.esave.co.il

Company activity in a nutshell

eSave company established in 2013, Develops, manufactures and markets systems for improving the incoming power quality, stabilizing the voltage and power saving without reducing devices output.

Examples of projects

Our product fit any consumer from the industrial, services, healthcare, and any heavy electricity consumer sectors, Dozens of products are operating in clients representing the above sectors, We commit to a minimum 10% power saving - when the average saving from our clients is 15%.

Technologies & products

Our unique & innovative technology through decreasing the magnetic fields and optimizing the voltage feed stability, this is performed through a combination between the characterization of the client electricity consumers and the saving unit rotated / dynamic magnetic field. The system is able to cope with different input voltage of $\pm 20\%$ up or down and adjusts the voltage to proper operation of all electricity consumers. Adjusting the incoming voltage power devices dynamically and accurately in $\pm 1\%$, voltage determined regardless of the input voltage and load from electricity consumers network The system absorbs voltage surges and prevents consumers electrical interference Avoiding voltage transience up to 6 continuous periods (1/10 of a second). The system improves the level of harmonic distortion at the entrance to the building. The system improves the power factor.

Objectives / Target companies

- Major real estate developers who manage their own developments • real estate management companies
- design-engineering-full service consulting firms • ESCOs serving targeted sectors / geographic areas
- energy distribution and management system providers • EPC Companies



Provides Innovative Solutions for the Energy Efficiency Market

Category: Energy Efficiency, Smart Grid, HVAC Energy Efficiency

Sub Category: HVAC, Smart Grid, Analyzing & Control systems, Monitoring & Control, Energy Management, Demand Response

gpmworld.com

Company activity in a nutshell

GPM was founded with clear mission of researching and developing a unique strategy that achieves reducing peak demand and saving money on electrical bills.

GPM was founded in 2008 in order to address the needs for missing tools for handling resources while providing the groundwork for more cost-effective energy consumption.

Examples of projects

Logistic centers, industrial buildings, commercial buildings, offices.

Technologies & products

GreenOS™ is a comprehensive solution that enables businesses to slash their electric bills by 10-40% by storing off-peak energy in the building itself. Using a series of simple sensors and controllers, proprietary learning algorithms and a user friendly interface, GreenOS™: • Stores thermal energy • Analyzes thermal behavior and energy rates • Optimizes operations and in effect, cuts the electricity bill

Objectives / Target companies

- Strategic Partnerships – Industrial AC companies, AC Control Companies, Commercial Construction Companies and ESCO's that can offer our solution as an added value to existing clients • Mega Customers – Big name customer such as Walmart, Target etc. Showcasing their savings will bring many others in their wake • Strategic Investors – Major energy organizations that would invest capital and resources to move our solutions forward



Operational Excellence Unleashed by Energy Intelligence Solutions

Category: Energy Efficiency, Smart Grid, Green Building

Sub Category: Analyzing & Control systems, Monitoring & Control, Energy Management, Demand & Response, Smart Metering, Grid

www.lightapp.com

Company activity in a nutshell

Founded in 2010, Lightapp is an innovative software company that developed a cloud service to collect, analyze and optimize industrial energy usage. To date, Lightapp manages energy for more than 50 industrial paying customers. Lightapp revolutionizes the way our customers consume energy by exposing and enabling response on key performance indicators that were previously considered unattainable and unseen. Our proven track record shows that implementing Lightapp enables manufacturers to reduce waste and costs by between 5% to 25%.

Examples of projects

As an example, Lightapp deployed its energy management system at a large Tire Manufacturer. Lightapp's software collects data from dozens of electricity meters, heavy fuel gages and other sensors as well as information about production and operations from the factory's ERP and manufacturing systems. The factory manages over \$5 M annually. With Lightapp's system the tire company was able to improve energy intensity by 11% (reduction of energy consumption per unit).

Technologies & products

Lightapp provides the best system to enable operational excellence. Easy to implement and learn, Lightapp's cutting edge web client provides the insights to make operational improvements immediately. Lightapp's intelligent data agent easily collects data from any data source in your operational facility, from electricity meters to ERP systems.

Objectives / Target companies

Lightapp targets large industrial manufacturing facilities and organizations. Lightapp has installed its system in various industrial verticals including Plastics, Bottlers, Food processing, Pharma and Tires. Lightapp is constantly expanding to additional industrial verticals and other large/complex organization (such as banks, retailers and airports).



R&D, Production and Marketing of Solar Heating Systems

Category: Renewable Energy

Sub Category: Thermal Energy

www.magen-ecoenergy.com

Company activity in a nutshell

Magen eco-Energy is a world leader manufacturer of a range of solar thermal solutions for heating swimming pools, domestic and commercial water applications, as well as Industrial and agriculture heat exchangers. Magens' known brands are: Heliocol®, Sunstar®, eco-Spark®, and eco-FLARE PRO®. Committed to quality, the company is ISO 9001:2008 approved.

Examples of projects

USA – solar heating of the Atlanta Olympic games swimming pool. Mexico - Solar Pre-Heating systems at 32 large IMSS chain of hospitals. World-Wide – Thermoplastic heat exchangers delivery to one of the largest water processing equipment supplier in the world.

Technologies & products

At the core of Magen's product lines is the innovative Over-Molding Injection Technology that enables the manufacturing of seamless, leak-proof, integrally-molded thermoplastic units. Far more advanced than any other application in its field, this technology gives Magen a strategic competitive advantage.

Objectives / Target companies

Magen eco-Energy sells its projects via locally based distributors. These distributors are either pool shops, pool builders, manufacturers of various pool related projects or solar hot water businesses.



Innovative LED and IoT Solutions

Category: Energy Efficiency, Smart Grid

Sub Category: Lighting, Analyzing & Control systems, Monitoring & Control, Demand Response, Smart Metering, Energy Management, Grid, Internet of Things, Smart Cities, LED, eHID

www.metrolight.com

Company activity in a nutshell

Metrolight provides proven, Internet controlled eHID and LED solutions for high-power lighting. Metrolight's solutions for the Smart Cities offer a platform for the Internet of Things and are used in retail, commercial and municipal applications. The company's install base includes more than 1,000,000 installed light points, out of which 300,000 are Internet connected, and offer up to 70% energy savings.

Technologies & products

Metrolight provides energy-efficient eHID ballasts, LED drivers and managed lighting solutions for high-power lighting. We offer IP, power technology that is micro-processor based and offers the operation of light sources more efficiently and management through digital control over the Internet via wires, wireless and PLC options.

Objectives / Target companies

Metrolight is looking for partners worldwide as follows: OEMs, Distributors, ESCOs & contractors and technology partners. All business partners are of interest.



Leading Provider of Circuit Level Energy Management Solutions

Category: Energy Efficiency, Smart Grid, Green Building

Sub Category: Energy Management, Demand Response, Smart Metering

www.panpwr.com

Company activity in a nutshell

Panoramic Power enables businesses to optimize their energy consumption, improve operational efficiency and generate income through load response programs - using an innovative and affordable device-level analytic solution.

Panoramic Power is the leading provider of circuit level energy management solutions. Using an innovative device level cloud-based analytic solution, we enable businesses to optimize their energy consumption, improve operational efficiency and generate income through load response programs. Panoramic Power delivers a powerful enterprise solution to organizations across a wide range of retail industries, helping them strategically align people, processes, and technology with financial, operational, and environmental objectives.

Examples of projects

Multi-site retail organizations: restaurants, supermarkets, merchandise retail Industrial manufacturing plants Commercial buildings.

Technologies & products

A pioneer in the industry, our overall solution consists of a highly scalable real time data collection platform and a powerful online cloud based, data analytic engine and web application designed for device level data. Our wireless sensors enable organizations to quickly, cost effectively and seamlessly collect real time energy consumption data. Panoramic Power's PowerRadar™ software then monitors electrical energy consumption at individual circuit levels across multiple sites in real-time.

Objectives / Target companies

Large scale wireless sensor deployment at multi-site retail organizations or large square footage buildings that lack visibility into their energy usage.



Category: Renewable energy

Sub Category: Hybrid Water heating for commercial users such as: Hotels, Hospitals etc

www.phoebus-energy.com

Company profile

Year of establishment: 2007

Number of employees: 16

Background of the company

Established in 2007, Phoebus Energy is funded by Terra Venture Partners (a leading Israeli venture capital fund focused on Cleantech), Galilaea Group (Israel, Italy) and Chesapeake Advisory Group (NY). Phoebus Energy is a leading innovator of hybrid water heating solutions for commercial sites with medium to high demand for hot water including hotels, sports centers, hospitals, condominiums, apartment complexes. Led by a talented and experienced team, Phoebus Energy is committed to developing and implementing environmentally-friendly solutions based on intelligent algorithms that increase energy efficiency and reduce pollution.

Phoebus headquarters are based in Raanana, Israel, with sales and support office in Athens Greece.

Examples of projects

Holliday-inn Athens, Crown Plaza Athens, Inbal Hotel Jerusalem, Ramada Hotel Jerusalem, MHMC hospital, Space Neshar sport center, and dozens of others.

Technologies & products

General description:

Hydra™ is a hybrid water heating system managed by smart cloud software. The system makes use of existing heating systems, usually furnaces burnings gas, diesel, oil or LPG. The Hydra™ integrates these systems with a heat pump farm, which transfers solar energy from the air to end- users at an extremely high level of efficiency.

The Hydra™ System gathers energy data from over 15 points in the surrounding environment and in the heating system. This data is continuously processed and transmitted, via the internet, to specialized software, where it is analyzed using a unique algorithm.

These results are continuously used by the software to determine the lowest cost method for heat production at any time.

Function of the product(s):

Our Hydra™ systems saves between 50-75% of our costumers energy expenses diverted to water heating.

Objectives / Target companies:

Hotels, hospitals, building maintenance company's, senior citizens' homes.



Category: Renewable energy

Sub Category: BIPV Panels

www.solaror.com

Company profile

SolarOr is a technology leader in the development and industrialization of novel solar Curtain Wall panels delivering high solar conversion at lowest industry prices. Our proprietary Curtain Wall panels offer solutions to the BIPV (Building integrated PV) and optimized for vertical installation where efficiency and architectural appearance are first priority.

SolarOr has developed the first high efficiency, transparent and improved insulation capability solar curtain wall.

Buildings and district offices are accounted for about 40% of total energy consumption. Meeting the stringent energy conservation requirements dictates a focused solution to the building sector as first priority. Our innovative design offers solutions for district and office buildings by providing an envelope of curtain walls with built in smart solar cell and double glazing constructions combined with improved heat and noise isolation.

Year of establishment: 2007

No. of employees: 10

Background of the company

SolarOr was chosen to participate in the Israeli solar consortium as a key figure for Israeli PV group and its façade technology is the core of consortium capability demonstration in new emerging product.

Technologies & products

Our technology offers a low weight isolating curtain wall with the following features;

1. Monocrystalline technology for efficient sun harvesting exceeding 150Wp per square meter.
2. LCPV concept - Low prismatic concentration for optimal silicon cell's area
3. Unobstructed translucent technology
4. Use micro inverter allow standardization of the product
5. The best price performance in the industry

Objectives / Target companies

Market Opportunity - SolarOr is seeking for investment of up to 1.5M\$ to complete the development of its product, complete IP registration and to locate partner as detailed below.

Partners - SolarOr is looking for Key player in the market to cooperate with for the development, production and later on marketing and distributing of SolarOr's products

Customers / Pending Customers - BIPV Market, PV Panel Producers, Construction Companies, Architects.

SwitchBee

The Internet Of Things

Smart Home - Synergy Of Things

Category: Energy Efficiency, Smart Grid

Sub Category: Lighting, HVAC, Monitoring & Control ,Energy Management, Smart Metering, Smart Home

www.SwitcBee.com

Company activity in a nutshell

SwitchBee developed an innovative, patent-protected smart home technology that transforms any home into a smart home within less than an hour, remotely controlled by a smartphone app from anywhere around the globe. SwitchBee created a very simple installation process of changing switches and sockets to friendly touch controllers with a smart engine inside. The process will not require any infrastructure changes, no batteries, no running wires and no changes to the electric board.

Examples of projects

Smart home switches - Not requiring any infrastructure changes or batteries Smart home range spectrum of devices IOT devices

Technologies & products

SwitchBee's game changing technology lies in three key points, being: • modular • affordable • simple

SwitchBee was made 'design to cost' and 'design to manufacture' at the highest level of efficiency, with unlimited production potential Both SwitcBee's own line of products and OEM game changing technology for market leaders.

Objectives / Target companies

Electrical switches manufacturers, Consumer electronics manufacturers, cable companies, telecommunications corporations, Building developers.



The Honeycomb Collector Company

Category: Renewable Energy

Sub Category: Thermal Energy

www.tigisolar.com

Company activity in a nutshell

TIGI introduces a new type of solar thermal (water heating) collector. With a unique capability to reduce losses it enables working at high efficiency even in winters of cold climate countries and at high temperatures - up to the boil year round - for large heat users such as for industrial (food industry, laundry, cosmetics, textiles, washing, drying etc.) and commercial applications (hotels, hospitals).

Examples of projects

Golan Wineries (12 m³ per day heated from 20°C to 85°C), Unilever Arad, Urim laundry, USA government and installations in UK, Germany, USA, Israel, Finland, China.

Technologies & products

Transparent insulation enables solar radiation into the collector but dramatically reduces losses related to convection and back radiation - thermally "closing" the side that is usually left "open" - the sun-facing side. Overheating prevention and hermetical seal increase the longevity of the collector's high performance.

Objectives / Target companies

Install systems for Industrial process heat in industry, commercial hot water + laundry + dish washing for hotels, hospitals and large domestic hot water, space heating and space cooling. Seeking customers and integrators, including utility companies seeking opportunities in implementing distributed renewable generation especially in heat - representing > 40% of energy end use.



Smart Solution for Hot Water and Steam

Category: Energy Efficiency

Sub Category: HVAC, Analyzing & Control systems, Monitoring & Control, Energy Management, Demand Response, Water Heating

www.uheat.co.il

Company activity in a nutshell

We manufacture and market a unique electromagnetic system based on the induction method, to heat water and other liquids. This system called "Ma'ayan" which provide high benefits to any customer who use big amount of water. The equipment is fully remote controlled with adapted command systems to enable our customer to save their energy expenses significantly.

Examples of projects

Over 400 projects all over Israel. Neshet cement factory, is using our Ma'ayan system to heat oil before it burns cement. Ma'ayan is planted in many boarding schools in Israel. See more projects in this link: <http://www.uheat.co.il/projects> (Hebrew)

Technologies & products

The Ma'ayan is an efficient induction oven, panned for water heating and other liquids. Ideally preventing Legionella in the water system. Compared to heating pump it has many advantages: Works in any weather condition and its efficiency does not depend on it. It is small as a desktop unit and can be placed in any room that has electrical outlet. Working quit as a carpet. It is less sensitive to scale. Rapidly heats the water. Can get to a very high temperature. The heating unit of the Ma'ayan has no moving parts.

Objectives / Target companies

We are looking for agents and distributors in any country. It must be a business in the field of water heating. We are looking for companies who treat Legionella. We are looking for companies who want to investigate in a proven Israeli technology.



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