



IL Climatech solutions COP27 Catalog

November 22



Energy

Eilat - Eilot organization

<https://www.eilateilot.org/about/>

Profile

The Eilat-Eilot Renewable Energy Initiative is a public benefit company, owned by the southern Arava villages and local businesses.

We develop the field of renewable energy as a lever for regional development while boosting the national clean energy sector.

Eilat-Eilot has produced 100% clean and renewable energy in Eilat and the Arava, established a venture capital company whose companies are traded on the stock exchange and continues to assimilate clean energies and innovative technologies in Israel.

Vision & Projects:

Eilat-Eilot brings an innovative approach to developing and assimilating technological advancements:

- The region borders with Jordan and Egypt and can, in a suitable political climate, create cooperation in the production, storage, transportation and use of clean energy for the benefit of these countries.
- The region produces 190MW of solar energy which are more than 100% of the energy consumption during the day.
- The region aims to implement 350 MW of storage installations with different technologies: long and short term to provide all regional energy as well as being a backup for central Israel.
- We enter green hydrogen production aiming to create a green hydrogen economy in the region.
- We welcome pilot and offer beta site testing to new technologies.
- The city of Eilat was selected in the European Union's program as one of the 100 cities aiming for carbon neutralization by 2050.
- The technologies and companies connected to action in the region:

The largest solar companies in Israel: EDF, Doral, Shikun & Binui, Arava Power, Energix, Meshki Energy.

The innovation companies that partner and operate pilots in the region: Augwind, Eccopia, H2PRO, Agarlite and Shikun & Banui with Agrovoltaic pilots.

- Energy independence of two schools within the European Union (solar + storage).

CAPITAL NATURE

Capital Nature

<https://capitalnature.com/>

Investment Funding for Israeli Cleantech Technology

Categories

Capital Nature is an investment company that focuses on investing in early stage companies with ground breaking technologies in the fields of Climatech including: Energy (generation, storage, transmission, management), Sustainable Mobility (automotive, logistics, smart cities), Construction-tech (green construction, low-carbon buildings), and Circular Economy (natural resources, reuse & recycling, new materials).

Profile

Capital Nature's portfolio consists of 13 companies in different stages of maturity. All are developing innovative technologies, products and services aiming to solve significant challenges in global markets. 9 companies have started in the IIA Incubation Program, and 4 are independent investments led by Capital Nature.

Along their lifecycle, Capital Nature provides its portfolio companies with hands-on business and financial support. Capital Nature continues to support its portfolio companies with follow-on investments and services according to their needs (as of today, Capital Nature took part in all the investment rounds of its portfolio companies).

The Capital Nature team includes professionals in the fields of science, engineering, industry, operations and finance, as well as a variety of top tier service providers and consultants, providing all functions necessary for a young enterprise. Capital Nature's shareholders, including Elbit, Refael, Direct Insurance, Consensus Business Group and Proseed Fund, share their knowledge and ecosystems with the company and its portfolio. Capital Nature was established in Israel in 2012, and held a franchise to operate a technological incubator under the Israeli Innovation Authority Incubator program until 2020. Since then, Capital Nature acts as an independent investment firm and continues to promote innovation technologies in the Israeli Climatech ecosystem.

The company is based in Israel, with HQ in Tel Aviv, and offices in Eilat Eilat and London.



HERZOG
HERZOG FOX & NEEMAN

- PARTNERS -

Herzog Fox & Neeman

<https://herzoglaw.co.il/en>

Ever since its foundation almost 50 years ago, Herzog Fox & Neeman has strived for professional excellence and has provided cutting-edge advice that accompanies our clients on the path to success.

Never has this been more necessary than in today's dynamic economic environment.

Multinational and domestic clients benefit from access to over 400 Israeli lawyers, including more than 150 partners, committed to offering timely and dedicated service in a competitive Israeli legal market.

Sharing our clients' global perspective, ambitions and commitment to the highest standards, we are seen as trusted advisors on a wide variety of legal issues across all industries and sectors.

Profile

As Israel's leading law firm, we strive to outdo in all aspects of our operations.

Providing excellent legal services involve impacting our environment – by the resources we consume, the transportation we use and the waste we generate.

We acknowledge that a part of these impacts are unavoidable. Nonetheless. We are committed to identify and minimize them as best we can, without compromising on our trade-mark skills and expertise. We thus acknowledge that protecting our environment is our duty to our community, clients and employees.

We therefore act with respect to the following:

Rising awareness to our environmental implications and to this policy among the firm's employees, visitors and clients.

Reduce the waste created by the activities of the firm carbon footprint – via source reduction, reduction of usage of single-use plastics, re-use and recycle of waste.

Reduce the firm's carbon footprint – by promoting energy and transportation efficiency.

Support sustainable business and procurement of beneficial environmental products and services.

Applying environmental factors in the firm's over-all operations, providing relevancy and applicability.

Setting environmental goals for continuous advancement.

Airovation Technologies

<http://www.airovation-tech.com>

Industrial Carbon Capture and Residential Air Purification Solutions

Profile

Airovation has developed a carbon-capture mineralizing technology for industrial-scale use cases that converts carbon dioxide into valuable minerals. The company is also developing partnerships with chemical, pharmaceutical, food, agrotech, and oil and gas companies to scale and secure the value chain for a carbon-neutral future.

Airovation's technology converts carbon dioxide, harmful gases, and bio-pathogens into oxygen-enriched clean air.

Currently running joint developments with home appliance brands around the world, Airovation's capability to convert carbon dioxide, viruses, and airborne bacteria into clean air will soon become commercial in an effort to improve people's health and wellbeing.



Tigi

<http://www.tigisolar.com/>

Highly Efficient Solar Thermal Collectors

Categories

PV Energy

Profile

TIGI is the developer of the Honeycomb Collector, a solar-thermal (water heating) collector that turns sunlight into heat. The company's collector is suitable for space heating and cooling, industrial process heating, and domestic water heating.

TIGI's collector can minimize energy loss even in conditions where traditional collectors perform poorly, resulting in high efficiency and economic value. Its environment-friendly solution can be easily retrofitted to most existing heat systems.



Solar Drone

<https://www.solardrones.net>

Autonomous Solar Panel Cleaning

Categories

Panels Cleaning

Energy solar

Profile

Solar Drone is developing fully autonomous drone-based technology to clean solar panels in any topography, including rooftops, mountains, and floating photovoltaics. The technology, "Drone in a Box," allows the drone to refill its water tank and replace the battery and other payloads as needed.

The RainMaker1 drone has additional capabilities beyond cleaning, such as thermal inspection for preventive maintenance, monitoring for real-time alerts, security and safety for emergency response, construction for site supervision, animal deterrence against winged animals, and vegetation management to maintain utility right-of-way and growth of vegetation.



TripleW

<https://www.triplew.co/>

Converting Organic Waste into Bioplastics

Categories

Waste treatment

Profile

TripleW has developed an industrial process that converts food waste into the building blocks of biodegradable bioplastic, producing higher revenues from food waste treatment than from biogas production, all with minimal impact to the environment.

The company's process enables its clients to efficiently manufacture bioplastic from a variety of municipal, industrial, and agricultural food-waste streams. In addition, TripleW produces highly pure lactic acid by fermentation, made entirely from renewable carbon, for multiple industrial applications such as food and beverages, personal care, and industrial products such as sanitation and descaling.

TripleW's technology treats food waste as a third-generation renewable feedstock for the production of pure, polymer-grade lactic acid, a building block of polylactic acid (PLA bioplastic). TripleW also enables the chemical recycling of PLA back into its patented process, further reducing wastage.



GenCell

<http://www.gencellenergy.com/>

Hydrogen and Ammonia Fuel-cell Power Solutions

Categories

Hydrogen

Profile

GenCell manufactures, sells, and services fuel-cell-based power solutions. The company's process of creating hydrogen on demand from anhydrous ammonia enables its fuel-cell solutions to provide primary power for off-grid and poor-grid telecoms as well as rural electrification. The company delivers backup power for utilities, homeland security, healthcare, automated industries, schools, and water purification.

In 2019, GenCell was recognized with the Europe Enabling Technology Leadership Award by Frost & Sullivan.



Brenmiller Energy

<http://bren-energy.com/>

Thermal Energy Storage

Profile

Brenmiller Energy delivers scalable thermal energy storage solutions and services that allow customers to cost-effectively decarbonize their operations. Its patented bGen thermal storage technology enables the use of renewable energy resources, as well as waste heat, to heat crushed rocks to very high temperatures. They can then store this heat for minutes, hours, or even days before using it for industrial and power generation processes. With bGen, organizations have a way to use electricity, biomass and waste heat to generate the steam, hot water and hot air they need for a variety of applications, including, for example, to mold plastic, process food and beverages, produce paper, manufacture chemicals and pharmaceuticals or drive steam turbines without burning fossil fuels.



H2Pro

<https://h2pro.co>

Hydrogen Fuel Production Technology

Profile

H2Pro has developed a production technology designed to enable wide-scale adoption of sustainable hydrogen fuel. Its core technology is based on research by the founding team at the Technion and resulted in the development of the Electrochemical – Thermally Activated Chemical (E-TAC) water-splitting technology.

E-TAC uses electricity to split water into hydrogen and oxygen. In this process, hydrogen and oxygen are generated separately in different phases: an electrochemical phase and a thermally activated chemical phase. In the electrochemical phase, electricity is consumed and hydrogen is generated. At the same time, the nickel-based anode is charged. In the thermally activated phase, the anode is heated up, spontaneously discharging it and releasing oxygen.



High Hopes Labs

<https://www.highhopeslabs.com/>

High-altitude Carbon Capture

Profile

High Hopes Labs specializes in leveraging the low temperatures at high altitude to scale carbon capture by deploying balloons to retrieve frozen carbon from nine miles above the Earth's surface. The company aims to capture 1,000 metric tons of carbon per balloon per day at a cost of less than \$50 a ton.

CO2SaaS

CO2SaaS

<https://www.co2saas.com/>

CO2 Sequestration as a Service - Carbon credits for carbon neutrality.

Profile

Open-sea artificial ponds to grow algae.

- Single-cell algae are the most effective CO2 eater on the planet.
- It only needs seawater nutrients, sunlight, and CO2 to grow.
- The CO2 concentration in seawater is 500 times higher than in the air.
- Energy-free water inflow into the ponds dumps the algae with trapped CO2 directly to the seabed.



Momentick

<https://www.momentick.com/>

Computer Vision-powered GHG Emissions Detections

Profile

Momentick is an advanced computer vision company that delivers autonomous and actionable capabilities to detect and verify materials such as methane and other GHG emissions on a planetary scale. Our services:

Methane Leaks Detection: Autonomous detection and quantification of methane leaks. Identifying the concentrations in each pixel and the sources of emission. Taking into account the local weather conditions in order to determine the flow & flux rates.

Pipeline Risk Management: Rural gas pipelines are hard to monitor. Regulators are asking for higher levels of safety, reliability and efficiency.

Momentick's Autonomous Detection technology allows for rapid identification to improve risk awareness and maintain efficient management schedules.

Environmental Impact: Autonomously detect the impact of chemical & biological materials on any environment by identifying land-covers anomalies



Shibolet-ESG

<https://shibolet-esg.com>

Profile

Shibolet ESG was established to assist businesses in implementing ESG guidelines and standards. It's an integral part of Shibolet Consulting Ltd. which is a subsidiary of Shibolet & Co law firm. Shibolet ESG is headed by Dr. Liad Ortar, one of the leading experts in the field in Israel over the past 15 years. Shibolet ESG provides a comprehensive service in all relevant ESG areas, including the construction of an overall short & long-term strategy, a detailed work plan for tracking, monitoring, and nonfinancial sustainability reporting.

Dr. Liad Ortar, Shibolet's ESG manager and head of Shibolet ESG, has had extensive background when it comes to promoting and implementing ESG approaches in business corporations. Our professionals have obtained numerous areas of expertise, including strategizing ESG, identifying organizational gaps, and leading our clients in the complex landscape of local and global ESG regulations and market demands.

We offer specialized research services in order for our consulting services and recommendations to be scientifically validated as well. Our team has made outstanding achievements in ESG & environmental regulation, academia, and climate risks in Israel and worldwide.



Ratio Energies

<https://ratioenergies.com>

Profile

Ratio Energies is a leading Israeli Limited Partnership founded in 1992 with a mission to explore, develop and produce oil and natural gas.

The partnership was founded by the Landau and Rotlevy families, together with Mr. Zvi Tsafiriri and Mr. Eitan Aizenberg, the Prospect generator of the Leviathan discovery, who has served as Ratio's SVP E&P since its founding.

In 2010, Ratio and its partners discovered Leviathan – one of the largest deep-water natural gas discoveries in the world, whose total reserves and contingent resources are estimated at c.22.8 TCF of natural gas (c.631 BCM) and c. 49 million barrels of condensate. At the end of December 2019, less than three years after the final investment decision (FID), on schedule and with a total final investment of c. USD 3.5 billion, production commenced from the Leviathan field and supply of natural gas began to customers in the Israeli market, and from January 2020 to customers in Jordan & Egypt.

Since production began from the Leviathan reservoir, it has been a significant component of the energy security of the State of Israel while lowering electricity prices and increasing revenues for the state. It allows the electricity sector and industry to enjoy low and stable gas prices in the long term.

Ratio Exploration holds 20% of Ratio Petroleum Energy, which engages in oil & gas exploration around the world.



ICL

<https://www.icl-group.com/>

Profile

ICL is a world-leading manufacturer and supplier of bromine-based drilling and completion fluids called clear brine fluids. Clear brine fluids are high-density and solid-free brines, used mainly in the completion process of offshore oil and gas wells. The main functions of clear brine fluids include: control wellbore pressure, cool the bits and tools, lubricating tools and pipes, transport solids from the wellbore, transport treatments to the production zone, minimize formation and equipment damage, and minimize operation time.

Lithium-Ion Batteries Raw Materials

ICL is a leading manufacturer of acid and specialty phosphate salts used in the production of cathode and electrolyte materials. Our broad phosphate manufacturing capabilities, as well as significant experience, offer diverse options for producing these phosphate salts. At ICL, we are ready to work closely with our partners to develop the best custom phosphate products tailored to meet every need.



Elbit systems

<https://elbitsystems.com/>

Profile

We are an international high technology company engaged in a wide range of programs throughout the world, primarily in the defense and homeland security arenas. We develop and supply a broad portfolio of airborne, land and naval systems and products for defense, homeland security and commercial applications. Our systems and products are installed on new platforms, and we also perform comprehensive platform modernization programs. In addition, we provide a range of training and support services.

Our major activities include:

- military aircraft and helicopter systems;
- commercial aviation systems and aerostructures;
- unmanned aircraft systems (UAS);
- electro-optic, night vision and countermeasures systems;
- naval systems;
- land vehicle systems;
- munitions;
- command, control, communications, computer, intelligence, surveillance and reconnaissance (C4ISR) and cyber systems;
- electronic warfare and signal intelligence systems; and
- other commercial activities.

Many of these major activities have a number of common and related elements, including common technologies and products, types of programs and customer interface. Therefore, certain of our subsidiaries, divisions or other operating units often jointly conduct marketing, research and development, manufacturing, performance of programs, sales and after sales support among these major activities.



Doral-Energy

<https://doral-energy.com/en/>

ENERGY OF INNOVATION

Profile

Doral Renewable Energy Resources Group is a renewable energy and environmental infrastructure developer, acting in Israel and globally, operating since 2007. Our vision is to generate energy from renewable resources while adhering to our values of excellence and environmental protection. Focusing on development, funding, building, operating and long term ownership of renewable energy facilities.

Doral Energy operates in a variety of renewable energy fields: development of energy projects -ground based, rooftop solar devices and water reservoirs solar facilities. Furthermore, and in collaboration with the rural sector, Doral Energy initiates, develops and builds waste disposal facilities and infrastructures, and wind energy.

The company brings its benefits and capabilities to the local and the global market and is working vigorously to develop its business around the world in renewable energy – solar energy and wind energy, as well as environmental infrastructure. Renewable energy has become an essential part of the solution for global warming, making it a global growth engine. The need to tackle global warming positions Doral Renewable Energy Resources Group as a local and global market leader.



Agro & Foodtech

Start-Up Nation Central Central

<https://startupnationcentral.org/>

Profile

Established in 2013, Start-Up Nation Central Central is a non-profit organization that strengthens Israel's innovation ecosystem and connects it to global challenges and stakeholders. Immersed in the Israeli technology ecosystem, we identify technological sectors with high growth potential and help them to scale.

Over the past decade, our highly professional team has held thousands of corporate engagements, which have led to scores of business outcomes, including investments, joint ventures, technology pilots, POCs, commercial agreements, and the establishment of local R&D and innovation centers.

Our unique position as an independent NGO enables us to create mutually beneficial outcomes for both our partners in the Israeli innovation ecosystem and our international partners from both the public and private sectors.

Halman-Aldubi Technologies

<https://halmanaldubi.com/>

Profile

HA Global is a strategic advisory with a deep expertise in the alternative space. HA global is part of The Phoenix Group, a large and highly regulated financial institution and one of Israel's leading insurance, asset management & financial services companies with more than \$100 Billion AUM (TLV:PHOE1).

Founded in 2016, our team of 28 professionals has acquired a deep understanding in private capital and established a far-reaching network of connections with the world's top alternative asset managers. Leveraging our close ties with the most sophisticated institutional investors in Israel as well as being highly familiar with the trends that interest Israeli institutional investors, we have the ability to execute high-quality transactions that equally support the interests of the fund managers and the investors. Strong expertise in the field of private capital and a wide network of connections in the Israeli market are the fundamental keys to our successful track record.

The company is currently leading several strategic projects in the areas of energy, Agtech and food security, promoted with cooperation with partners from the MENA region:

- 1.The Qattara Project: A Blue Carbon Solution
- 2.Wheat for Egypt and Saudi Arabia
- 3.Sustainable Protein for Developing Countries
- 4.Sustainable Protein with Algae and BSF Larvae
5. Mobile Solution for Zoonotic Disease Outbreaks



Strauss Group

<https://www.strauss-group.com/>

Profile

Strauss Group is an international Food & Beverage company that strives to improve people's lives, headquartered in Israel, where we are the largest food company. Our portfolio includes four businesses: Strauss Coffee B.V., Strauss Israel, Strauss Water and PepsiCo – Strauss Fresh Dips & Spreads International, aligned with two global consumer trends: Health & Wellness and Fun & Indulgence



LR Group

<https://lr-group.com/>

Profile

LR Group is on the forefront of international development, turning vision into ideas, ideas into action, and action into long-term impact.

By empowering people, we enable them to fulfill their potential and to make the most of land, skills, and natural resources, thereby helping whole communities thrive. We have established a track-record of prosperous, sustainable projects in more than twenty countries over the last three decades.

LR Group has been operating worldwide in the initiation, development, financing, construction, and management of medium and large scale projects in high growth economies. Our experienced teams specialize in Agriculture, Water, Energy & Power, Telecom, Health, and Construction.



Mileutis

<https://mileutis.com/>

Profile

Mileutis has developed a line of biopharmaceuticals that are revolutionizing the way in which farmers and veterinarians treat a wide range of diseases. Mileutis' first products are comprised of peptides and specific protein fragments that have a positive impact on body functions and conditions that influence health. These peptides act through an immune-modulatory effect, enabling the management of infectious and chronic diseases without the use of antibiotics, thereby reducing the use of antibiotics in animal and human healthcare. This will assist in overcoming the global threat of antimicrobial resistance (AMR) generated by, among other things, the overuse of antibiotics.

Mileutis has been able to achieve its ambitious goals by investing in a talented and diverse research team

that is highly focused on medical indications which will have the largest impact, and by building a corporate headquarters that has manufacturing cleanrooms and state-of-the-art R&D laboratories, utility rooms, storage facilities and management offices.



Groundwork BioAg

<http://www.groundworkbioag.com/>

Mycorrhizal Inoculants for Commercial Agriculture

Profile

Groundwork BioAg, a global bioagriculture company, leverages the natural power of mycorrhizal fungi to improve the productivity, sustainability and profitability of commercial agriculture and expand regenerative agriculture practices. Groundwork BioAg uses innovative techniques to solve challenges inherent in high-volume mycorrhizal inoculant production. The company's BioAg produces mycorrhizal inoculants for commercial farming. Containing concentrated and vigorous beneficial fungi, the company's Rootella and Dynomyco inoculants can improve soil nutrient uptake in plants, increase crop yields, improve resistance to several types of stress, and reduce fertilizer requirements. Groundwork BioAg has demonstrated significant yield increases in numerous major crops, including corn, soybeans, sorghum, tomatoes, onions, and cannabis.

PlantArcBio

<http://www.plantarcbio.com>

Gene Discovery Platform for Crop Enhancement

Profile

PlantArcBio is a plant biotech start-up company and the developer of the IP-protected Direct In Plant (DIP) platform for improving plant performance. DIP screens millions of plants, each with unique genes, from any possible source and with no prior knowledge required. The platform can be used for both conventional (e.g. marker-assisted selection breeding and gene editing) and biotech applications. Positive in planta results enable the rapid discovery of promising genes. Through the use of DIP, PlantArcBio has discovered promising genes for drought tolerance, yield improvement, and insect control. The company has also initiated activity in the areas of herbicide tolerance and disease control.



Aleph Farms

<https://www.aleph-farms.com>

Cultured Whole-muscle Beef

Profile

Aleph Farms grows real steaks from isolated cow cells. The companys proprietary 3D platform uses various types of cells to form complex tissue, ensuring an end product that resembles the taste, texture, and structure of conventional farmed meat. Aleph Farms technology was developed with Professor Shulamit Levenberg at the Technion Israel Institute of Technology. In October 2020, Aleph Farms announced the launch of Aleph Zero, a program designed to forward the companys vision for advancing food security by producing fresh quality meat anywhere, independent of the effects of climate change and the availability of local natural resources. The core mission of the new initiative is centered on introducing new capabilities for the local production of fresh, quality meat even in the most harsh and remote environments, including in space.

SupPlant

<http://www.supplant.me/>

Plant Sensing Technology

Profile

SupPlant is focused on digitally informing irrigation decisions worldwide. By using plant sensing, artificial intelligence, and accumulated data spanning thousands of seasons, SupPlant provides growers with irrigation recommendations designed to empower better decision-making. The companys product dramatically enhances water use efficiency as well as yield quantity and quality. SupPlant provides tools for the seamless handling of extreme weather events and 24/7 agronomic support. SupPlants latest development is a fully sensor-free irrigation API platform that targets 450 million smallholder farmers around the world, specifically in India and sub-Saharan Africa.



Phytech

Phytech

<https://www.phytech.com>

Phytomonitoring Technology for Crop Management

Profile

Phytech develops technology designed to help growers manage and optimize production by keeping them connected to their plants. By using real-time data from their plants, fruit, and irrigation system, growers can avoid stress, optimize water delivery, and achieve better and higher yields. Phytech sensors on selected plants continuously monitor microvariations of stem diameter that can indicate stress. The company applies patented algorithms that transform the data into crop-specific plant status information which is then presented in a simple color-coded display. Maximum daily trunk shrinkage and trunk growth graphs complete the picture to give growers a deeper understanding of what is happening in each block for more informed decision-making. Phytech's irrigation recommendations provide further support and a benchmark to help growers avoid under- or over-irrigation.

Vimodo LTD – MEFS -initiative<https://www.mefs-initiative.org>**Profile**

The Middle East Food Security (MEFS) Initiative is a nonprofit organization that aims to shape, formulate, and coordinate Food Security projects in the Middle East. The MEFS Initiative seeks to promote targeted partnerships between leading Israeli Research Institutions, Israeli and multi-national food-tech, and Agri-tech related corporations, government agencies, and local companies and organizations in the region, all sharing the common goal of achieving regional food security.

Together with Israel's National Security Council (NSC), The Ministry of Foreign Affairs (MFA) and UN bodies such as the Food and Agriculture Organization (FAO) and another international partner, the MEFS Initiative creates platforms and frameworks that advance food security in the Middle East and serve as a coordinating body between knowledge, investments and government level decision-makers in the public and private sectors. We understand that strengthening food security is essential for the economic, social and geopolitical welfare and stability of the region today and that greatly expanded efforts to respond to climate change are needed immediately if we are to safeguard global food security.



Water Tech

MEKOROT

<https://www.mekorot-int.com/>

We live water. We supply water.

Profile

Mekorot supplies more than 1.5 billion cubic meters of water annually to homes, farms, and factories. Eight million consumers use the water that we supply to municipalities, local authorities, villages, the private sector, and, under treaties, to the Palestinian Authority and the Kingdom of Jordan.

We are everywhere under all conditions, even in the desert and even during prolonged extreme droughts. We are available to reliably supply high-quality water 24 hours a day 365 days a year. We make it possible to live life, uninterrupted manufacturing and affect the economy. We convert challenges into opportunities and ideas and goals into practical solutions.

We are there, daily tackling global warming, population growth, and the steep rise in water demand, by establishing the world's most advanced water systems and infrastructures. We also manage, operate, and maintain them for our customers on the basis of a multi-channel service orientation that integrates the physical space and the digital-technical space.



Bermad

<http://www.bermad.com/>

Water Control Solutions

Profile

Bermad develops and produces high-quality hydraulic control valves. The company's solutions incorporate advanced flow-control technologies and have been used in the irrigation, water works, and fire protection industries. Bermad also specializes in air flow control, which plays an important role in controlling liquid flow in pipelines.

Netafim

<https://www.netafim.com/en/>

Profile

Netafim, Orbia's Precision Agriculture business, is the world's largest irrigation company and a global leader in precision agriculture solutions committed to fight scarcity of food, water and land, for a sustainable future. Founded in 1965, Netafim pioneered the drip revolution, creating a paradigm shift toward precision irrigation.

Today, specializing in end-to-end solutions from the water source to the root zone, Netafim delivers irrigation and greenhouse projects, as well as landscape and mining irrigation solutions supported by engineering, project management and financing services. Netafim is also leading the way in digital farming, irrigation and fertigation, integrating real-time monitoring, analysis and automated control into one state-of-the-art system.

With 33 subsidiaries, 19 manufacturing plants, 2 recycling plants and more than 5000 employees worldwide, Netafim delivers innovative, tailor-made irrigation and fertigation solutions to millions of farmers, allowing smallholders to large-scale agricultural producers and investors, in over 110 countries, to grow more with less™. See how Netafim's solutions are driving sustainable agriculture and a food secure future at www.netafim.com



Watergen

Watergen

<https://www.watergen.com/>

Atmospheric Water Generator

Profile

Watergen develops energy-efficient, accessible solutions to collect clean and safe drinking water from the air. The company offers water-from-air units in different sizes that can serve a variety of needs and require no infrastructure other than electricity or solar energy. The large-scale unit, which produces up to 5,000 liters of safe, clean drinking water per day, can potentially service entire cities, villages, factories, or off-grid settlements. The GEN-350 medium-scale unit produces up to 900 liters of water, and the Genny home unit produces up to 27 liters of water per day. The company is also integrating the atmospheric water generator into vehicles. The technology has been tailored to provide drivers and passengers with in-vehicle clean drinking water and can be used in washing sensors, cameras for autonomous vehicles, and other functionalities that require water injection.



SoliDrip

<https://www.solidrip.com>

Autonomous Irrigation System

Profile

SoliDrip has developed an autonomous drip irrigation system that automatically adjusts irrigation based on changes in the environment and plant growth. The company's technology allows users to grow multiple crops simultaneously on a single irrigation line, with each crop given its specific irrigation needs. SoliDrip aims to extend urban green lung areas on rooftops, living walls, balconies, and courtyards. With SoliDrip's technology, communities, businesses, and individuals can efficiently and economically grow food commercially or for home consumption both outdoors and indoors. SoliDrip also offers solutions to improve indoor air quality, reduce energy consumption, and enhance employee productivity, creativity, and well-being.



R-Place

<https://www.r-places.com/>

Transforming wastewater into carbon credit

Profile

A global acceleration of constructed wetlands for water purification and carbon removal and reduction.

Constructed wetland have the highest potential for GHGs prevention emissions and carbon capture for carbon credits.

Rplace's vision is to make our rivers and seas cleaner and healthier and improve the wealth of people and ecosystems through utilization of the carbon credit market.

constructed wetland will treat polluted water and reduce carbon footprint via the carbon credit market.

Rplace's automated machine learning platform will provide an end-to-end solution for constructed wetlands projects that are sold as carbon credits. This platform will provide real time and science-based data to meet regulations and commitments for the wastewater purification and carbon reduction certification.



Roots Sustainable Agricultural Technologies

<http://rootssat.com>

Root Zone Cooling and Heating Systems

Profile

Roots addresses plant climate-management and irrigation issues. The company specializes in two core technologies: root zone temperature optimization, which can help increase yield, improve quality, save energy, and mitigate extreme heat and cold stress; and irrigation by condensation, which provides water for irrigation from the moisture in the air and soil. Roots leverages the principle of ground-source heat exchange by installing a closed-loop system of pipes and a circulation pump. The lower heat-charging component is placed at depth, and the upper heat-discharging device is located in the target crop's root zone. By heating the root zone during the winter and cooling it during the summer, the root zone temperature is maintained at a relatively stable, favorable range year-round.

Gross law firm

<https://www.gkh-law.com/>

Profile

Gross & Co. is one of the leading, most influential law firms in Israel. Our firm provides its clients with comprehensive services and creative legal solutions in a variety of areas.

Our professional team consists of more than 220 lawyers, among them more than 90 partners, many of whom have practiced in international firms in the US, the UK and Brazil, among others.

Our local and international reputation is built on innovation, creativity and a deep legal understanding that is based on a unique legacy that characterizes the firm and reflects ideals of ethics and commitment to providing a professional, uncompromising, courteous, and innovative service. A service that is recognized for its excellence by international ranking guides such as Chambers & Partners and Legal500.

The heritage of our firm established the legal foundation that benefits our clients – a comprehensive, one-stop-shop that provides professional services and legal solutions tailored to our clients' specific needs in a wide range of legal areas: corporate law, mergers & acquisitions, capital markets, hi-tech and venture capital, intellectual property, banking & insurance, finance & tax, real estate, litigation, antitrust, energy & infrastructure, environmental law, labor law, and administrative law, among others.

In the dynamic world in which we live, quick response time is critical. We provide multidisciplinary, comprehensive, and uncompromising service in multiple languages and operate in the local and global arenas.



Curapipe

<https://www.curapipe.com/>

Bulk Reduction of Leakage in Water Distribution Pipes

Profile

Curapipe developed the patented Trenchless Automated Leakage Repair (TALR), which is a solution for rapid bulk reduction of unsustainable leakage levels. It is designed to work along with ongoing active leakage management services and works well with installed network pressure reduction systems. Curapipe's TALR is an internal pipeline leakage repair solution for multiple leaks in water distribution networks. TALR is especially well suited for pipelines with substantial leakage from multiple sources of leaks. TALR is suitable for a wide range of pipe materials and as a standalone system. Once launched into the treated pipe section, it self-detects water leaks and automatically seals and cures them.



CAMERI

<https://www.cameri-eng.com/>

The Israeli Coastal and Marine Engineering Research Institute was established in 1976 by the Technion and The Israeli Ports Company (IPC) and has become the leading research institute in Israel dedicated to Physical Oceanography Modeling and Research.

Profile

For the past 4 decades, CAMERI leads the Marine and Coastal engineering research in Israel and is widely recognized as a national champion with expertise in three main intertwined topics:

Development and operation of physical data collection in the coastal and marine zones.


Development and operation of Modeling (numerical and physical) in the marine engineering domain.

Planning, execution and supervision of basic research in the domain of marine engineering.

Our Vision

Lead coastal and marine engineering research for a sustainable blue growth towards Israeli centennial independence year 2048 and beyond.

Nature has no borders: CAMERI provides services to our neighbors, near and far, and will be glad to get in touch with you too.



This publication is for informational purposes only. While every effort has been made to ensure the information is correct, The Israel Export & International Cooperation Institute assumes no responsibility for damages, financial or otherwise, caused by the information herein.

© The Israel Export & International Cooperation Institute •
Production: IEICI Media & Communication Division

