

# Israeli Delegation to Spain Energy and Cleantech

March 8-9, 2023  
Spain



Misión Económica-Comercial  
Embajada de Israel en España

## Misión Económica-Comercial en España

La Misión Económica-Comercial en la Embajada de Israel es una unidad profesional de la Administración de Comercio Exterior (FTA) dentro del Ministerio de Economía e Industria de Israel (MOE).

Es también una rama de la Embajada de Israel en España que tiene por objetivo, promover, mejorar y facilitar el comercio, las inversiones industriales y los acuerdos de cooperación & I+D+i entre España e Israel.

La Misión Económica-Comercial ofrece a las empresas españolas, a través de sus diversos eventos, un punto de encuentro con la comunidad de negocios israelí. Tenemos por objetivo promover, mejorar y facilitar el comercio y las inversiones en diferentes sectores entre España e Israel. Trabajamos para desarrollar asociaciones bilaterales estratégicas, identificando nuevas oportunidades para la colaboración en los negocios, a través de seminarios de negocios, delegaciones, exposiciones, *scouting* y apoyo en la creación de agenda de visitas.

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<https://itrade.gov.il/spain/>



ISRAEL EXPORT INSTITUTE

**The Israel Export and International Cooperation Institute**, supported by member firms, private sector bodies and the government of Israel, advances business relationships between Israeli exporters and overseas businesses and organizations. By providing a wide range of export-oriented services to Israeli companies and complementary services to the international business community, the Institute helps build successful joint ventures, strategic alliances and trade partnerships.

The Israel Export Institute (IEI), operate with over 600 exporting companies in the **Cleantech** arena. And over 200 exporting companies in the **Construction & Property technologies** domain

The solutions in these domains span the entire value chain of those rather traditional and conservative industries of Energy, Construction, and Engineering, and aiming to disrupt and digitalize it. From design and planning phases through on-site execution and operation to optimization and maintenance.

The Cleantech & Smart infrastructure Sector in the Israel Export Institute aims to promote the Israeli most cutting edge technologies in these domains on different platforms such as international exhibitions and conferences around the world, providing scouting services and professional information about the sector and formulating business activities and engagements to create business partnerships with leading Energy, Construction and Engineering companies around the world.

[Discover Israel's Cleantech and smart infrastructure sector with IEI.](#)

[www.export.gov.il](http://www.export.gov.il)



# Brenmiller Energy

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

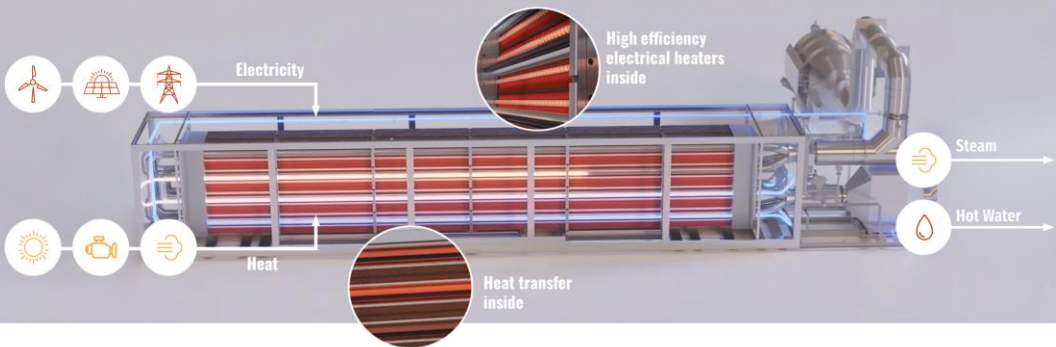
Thermal Energy Storage

## Categories

## Energy Storage

## Profile

Brenmiller Energy delivers sustainable thermal energy storage (TES) solutions and services that allow industrial plants and utilities to produce carbon-free heat. Its patented heat battery enables the use of renewable energy resources to heat crushed rocks to high temperatures. The TES can store this heat for hours or days before using it for industrial process or power generation.





## DORAL

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

Renewable energy and environmental infrastructure developer

### Categories

Energy | PV solar | CVC

### Profile

Doral Renewable Energy Resources Group is a renewable energy and environmental infrastructure developer, acting in Israel and globally, operating since 2007 and trading in the Tel Aviv stock exchange since 2020.

Doral focuses 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, various facilities and infrastructures, and wind energy.

Doral group 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 and green hydrogen.

Doral hydrogen is part of the Doral group. We focus on developing and operating green hydrogen and ammonia facilities, mainly in the industry sector.

We act in Israel, Europe, USA, and Australia with the ambition to be a significant part of the world's energy transition.

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.



## H2Pro

<https://h2pro.co>

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Hydrogen Fuel Production Technology

### Categories

### Hydrogen

### 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.



Luminescent  
Solar Power

## Luminescent

<https://luminescentpower.com/>

Efficient Heat Engine

### Categories

**Generation I Renewable Heat**

### Profile

Luminescent is developing a small, efficient, and low-cost heat engine for markets including waste heat, solar, and cooling. The heat engine is small (>10kW-10MW), high efficiency, low cost, and isothermal. The company enables any small gas turbine to be converted into a combined cycle potential of 100GW and use any source of waste heat to convert to electricity with ROI <3. Luminescent aims to enable the multi-tower concept to generate 24/7 solar energy.

## Solar Drone

<https://www.solardrones.net/>

Autonomous Solar Panel Cleaning

### Categories

Generation I Solar O&M

### 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.







## RST CLEANTECH

<https://www.rst-cleantech.com/>

Automatic Solar Panel Cleaning

### Categories

**Generation I Solar O&M**

### Profile

ST Cleantech provides an automated solar panel cleaning system designed to increase solar energy production and preserve the consumers panel warranty. The system uses filtering technologies and advanced water engineering to treat the water scaling and corrosion found in water sources worldwide. The RST Cleantech system is designed and developed in accordance with solar panel manufacturer warranties and maintenance guidelines. In addition, it is one of the only solar panel cleaning systems in the world that is completely green.

RST is the first automatic cleaning system, which keeps more than 2 million panels clean all year. The RST automatic washing system is suitable for solar systems of all sizes, from 50KW to 250KW and above. So any solar system can be cleaner and more profitable, with zero effort and 100% output.



## Satec

<http://www.satec-global.com/>

Energy Management Solutions

### Categories

**Energy Generation Optimization**

### Profile

SATEC researches, develops, and manufactures energy management solutions for energy utilities and consumers. The company's devices include basic power meters and high-performance grid meters with advanced power quality capabilities. Its solutions are designed to enable energy utilities to take timely corrective actions and help energy consumers prevent equipment failures. SATEC exports to more than 40 countries throughout Europe, North and South America, Asia, and Africa. All SATEC devices comply with world-acknowledged regulations and are supported by the company's energy management software.

## Technology

Momentick is a computer vision company that delivers accurate & autonomous capabilities by identifying & quantifying materials such as Methane and other GHG emissions on a planetary scale.

## Solutions

- Onshore and Offshore recurring monitoring of methane emissions.
- Export emission data to a designed PDF report to comply with regulations and support environmental reporting.
- Unique IP that overcomes complex conditions in satellite imagery.

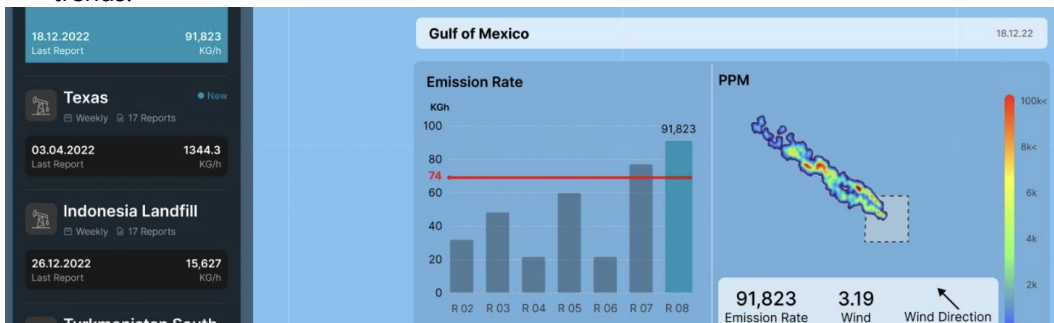
## Strengths

**Cost-effective** - Utilize point source data to prioritize mitigation, eliminating emissions and utilizing energy.

**Accuracy** - Replace emission estimates with precise insights from a trusted MRV.

**Planetary Scale** - Combining observations from a range of satellites for continuous monitoring.

**Utilize historical data** - Provide time-over-time comparison, track changes and trends.





## G.A Electro Sonic Ltd.

[www.ga-electrosonic.com/](http://www.ga-electrosonic.com/)

G.A Electro Sonic Ltd. was founded in 1986, after 3 years of operation in the ultrasonic systems field of its founder, Yacov Gur-Arie.

### Categories

#### Technologies for Industry | protect from rodents

#### Profile

The company specializes in the development, production, planning, marketing and installing of ultrasonic systems, designed to protect from rodents (mice and rats). The CEO of the company is an economist and an exterminator.

The company has installations in many sites including industrial areas, data centers, the Ministry of Defense, Rafael, Mekorot- Israel Water Company, IEC, wastewater purification plants, control rooms, Israel Railway (electricity rooms, the Jerusalem Train Line), etc.

#### Services

- Providing consultation and planning solutions to electrical engineers (planners) and clients on the ultrasonic systems use in projects.
- Selling and installing ultrasonic systems.
- Providing years-round maintenance and support to clients.
- Providing systems repair and renewal services.

G.A's systems are manufactured in Israel.

The company often takes part in conventions and exhibitions in Israel around the world.

Ultrasonic system | Ultrasonic anti rodent system | Ultrasonic rodent damage prevention system | Anti rat systet | Anti mice system | Protecting mission critical systems from rodent damage | Protecting mission critical systems from rat damages | Protecting mission critical systems from rat & mice damages



## Pillar

Technology Examples: [Plastic Back](#), [Inteligels](#)

Development of Smart Technologies for Industry

### Categories

#### Smart Materials Smart Products

#### Profile

Pillar Ltd is an Industrial Outsource R&D Service Company. For over 22 years the company has specialized in by-demand customized solutions and application development for industries. The company offers a unique service model; All IP ownership is fully transferred to the client. This model allows industries to upgrade and develop technological applications utilizing international and Israeli grant programs and incentives, using a low risk, cost efficient, milestone-based development approach from innovative solutions to industrial implementation. Plastic-back is a spin-off company based on an outsource technological project for an industrial client.

The company's expertise is focused on material design: tailoring material properties using chemical and bio-chemical compositions for characterization deviations for physical, chemical, and enzymatic targeted performances. Application ranges from advanced Green Hydrogen, Hydrogen storage, Smart Photovoltaic cells, recycling solutions, environmental technologies, reinforced materials, smart energy technologies, and others.

#### Example for Circular Energy technology - Pillar Ltd and Plastic-Back technology

Plastic Back [www.plastic-back.com](http://www.plastic-back.com) has developed a low temperature (up to 100 °C) chemical solution able to convert challenging to treat plastic waste, including PVC, mixed and contaminated into liquid hydrocarbon fractions ranging from C5-C15. The produced outputs can be integrated into the petrochemical process with flexibility between the refinery and steam crackers.

The unique process developed by Plastic Back can substantially reduce working temperature (X6 energy efficient), can address currently untreated waste streams, and can reduce GHG emissions due to the non-thermal process.

The company has successfully tested its IP-protected chemical process on several polymers and is scaling up to a pilot plant. Plastic Back is supported by the Israeli Ministry of Energy, the EU commission, and VC investors.



## March 23

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