MARCH | 2023

MAPPING REPORT

ENERGY COMPANIES AND ACADEMIC RESEARCH IN ISRAEL

EnergyCom.IL

Prepared by:

The Energy Innovation Community – EnergyCom

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Table of Contents

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Ministry of Economy and Industry
Innovation Ecosystems Department

Ministry of Energy
www.energy.gov.il

רשות החדשנות
Israel Innovation Authority

ISEA
Israeli Smart Energy Association

EILAT EILOT
Renewable Energy

INTRODUCTION

As part of its commitment to the energy innovation community in Israel, EnergyCom is pleased to present the second Israeli energy mapping report.

EnergyCom continues to pursue its objectives in promoting a supportive environment for innovative industry - achieving synergy between academics and industry, encouraging the adoption of innovative energy solutions, human capital development in the field of innovative energy, developing a stronger relationship between entrepreneurs and leading companies, creating a platform for direct connection between the local industry and the export markets.

As part of the Community's activities, we seek to map the companies, entrepreneurs, researchers, and investors in Israel who are engaged in energy-related activities. The Israeli Government has set a goal of generating 30% of its electricity from renewable energy sources by 2030. As a means to achieving this ambitious goal, both the public and private sectors are increasing their investments in the energy sector.
According to the Israeli Ministry of Energy, 44.5 M. NIS were invested in Israeli startups in 2022, including 23 companies participating in the "Heznek" program and 26 companies participating in the "Halutz" program, including funds transferred from the Environmental Protection Ministry and the Water Authority. It should also be noted that $338.9 M. was invested in Israeli energy startups in the year 2022 alone. Over the course of 2014 and 2022, a total of $1497 M. was invested in local energy startups. Israel's energy sector has experienced a rise in investment, growing from M82.2 million in 2019 to the current amount.
The energy sector is in a rapid growth phase and now is the ideal time to invest. Do you want to participate in the journey toward a clean energy future?

We wish to thank Mr. Gideon Friedman, the Chief Scientist of the Ministry of Energy and Infrastructure, and the organization's Start-Up Nation Central and IVC Data & Insights for their significant contribution to this report and emphasize their importance as sources of information and assistance in gathering the data.

1. Info from the Chief Scientist of the Ministry of Energy
2. IVC Data & Insights
3. Start-Up Nation Finder

DEFINITIONS

Below is a list of the main terms contained in the report, and their definitions for the purpose of this report.

Definition of Companies

This report primarily focuses on companies with major activities in the energy industry or those that have divisions with major activities in the energy sector. The companies have been categorized into the following groups for convenience. In some cases, a company may be assigned to more than one group (such as a public development company. For the purposes of this report, the criteria that were used to select companies are outlined in the section “Criteria"

Definition of companies	Development Company	A company whose sales derive mainly from technological developments made by the company.
	Service Company	A company whose sales derive mainly from services provided by the company, such as electricity generation, fuel transportation, gas and oil exploration, etc. Likewise, we included in this section also a fund or company whose main income stems from investments in, or putting in motion, energy projects (such as solar, storage, etc.), not including accompanying financial entities.
	Foreign Company	A company whose headquarters and principal operations are located outside of Israel, and which has a dedicated and budgeted activity in Israel, beyond the selling of the company's products.
	Public Company	An Israeli company traded in the stock exchange.
	Venture Capital investors, Accelerators	Funds, companies, or angel-investors that invest in the development of products/services in the field of energy, as well as accelerators that are active in the industry.

Definition of activity sectors and subsectors of development companies

As a convenience, we have divided the fields of activity of the development companies into six sectors containing subsectors. Certain companies may operate in overlapping sectors and subsectors. We anticipate that more subsectors will be added over time, and perhaps the sectors themselves will change, but we intend to keep them broad enough to accommodate a sufficient number of companies in each field. As per the editors' understanding, this report has been divided into several sections. The companies will be able to specify their main fields of activity in subsequent reports.

A company can be classified into more than one sector. This report classifies each company's activities into a single subsector which we believe is its primary focus. Below are the six sectors and subsectors:

DIVISION INTO SECTORS

Renewable Energy
- Generation technologies
- Dual use
- Enabling systems

Distributed
- Energy efficiency
- Microgrid
- Off-grid

Infrastructure
- Smart Grid
- Electric transportation
- Oil and gas Digitization

Storage
- Utility Scale
- Distributed
- Behind the meter
- Electric vehicles

Clean Fuels
- Hydrogen
- Alternatives fuels

Carbon Capture

SECTORS DEFINITION

SECTORS DEFINITION

Renewable Energy

Products/services that are related mainly to energy generation from continuous natural processes that are not finite, such as generation of power from water, wind, solar radiation, etc.	
Generation technologies	Companies that focus on a solution for generating renewable energy of all types.
Dual use of the land	Companies that focus on solutions that enable dual use of the land in order to generate power in lands that are designated for different uses, such as: roofs, water reservoirs, shaded areas, parking lots, greenhouses, etc.
Enabling systems	Solutions that enable or improve the use of renewable energy technologies, including management, grid connection, efficiency, etc.

Distributed Energy and Energy Consumption

This field includes various subfields that pertain to the power array in the vicinity of customers.	
Microgrid	Companies that focus mainly on solutions for handling a small-scale electricity market that includes grouped consumers and energy resources that are distributed within well-defined boundaries and operate as a single entity that can be controlled in a grid.
Energy efficiency	Solutions that enable a reduction in or savings of energy consumption
Off-grid	Development of technologies that focus mainly on enabling or improving the use of energy in off-grid areas.

Infrastructures

Solutions that are designed for all the segments of management, generation, transmission and distribution of electrical grids.	
Smart grid	Solutions intended principally for electric power utilities (of various types) that enable grid improvement whether by communication, data analysis, control, management, data security, maintenance, monitoring, etc.
Electric transportation	Companies that focus principally on solutions for electric vehicle charging infrastructure and management.
Oil and gas Digitalization	Solutions for more efficient management, control, design and planning by using information technology.

Energy Storage

In view of the importance of the subject, all energy storage solutions were grouped into a separate field, although they are evidently relevant to the various fields.	
Utility Scale	Massive energy storage as part of the grid.
Distributed	Energy storage solutions intended to regions in the distribution grid, to large consumers or to off-grid regions.
Behind the meter	Energy storage solutions intended for the use by small and medium size consumers and under their control. Manly for residential use.
Electric vehicles	Energy storage solutions intended to support the vehicle charging infrastructure or be used as batteries inside the electric vehicles.

Clean Fuels

A field devoted to solutions for non-fossil fuel production.	
Hydrogen	In view of the importance of hydrogen, a sub-field was designated for hydrogen production solutions.
Alternatives fuels	Fuel produced from Organic materials such as pruned wood and trimmed foliage, vegetable agricultural refuse, etc.

Carbon Capture

Even though this sector does not directly fall under energy definition, we found it important because of its close relation with energy innovation. In this sector we present companies that develop technologies that capture or store carbon dioxide (CO2) from power plants and air or digitalize carbon capture proses

CRITERIA

CRITERIA

The following criteria will be used to select companies eligible for inclusion in the 2023 report (companies meeting at least one of the criteria, as described above.

- An Israeli development company (of any size and at any stage).
- A publicly traded Israeli company.
- A company whose turnover is estimated to exceed 50 million NIS, based on publications.
- A company headquartered outside of Israel, with a turnover exceeding 100 million NIS, and an Israeli market-focused activity beyond sales.
- An Israeli company or fund managing or planning to manage a portfolio of energy projects with a minimum budget of 50 million NIS in any part of the world, or a foreign company or fund engaged in such activities in Israel.
- A company with a turnover over exceeding 100 million NIS engaged in, or intending to engage in, investing/acquiring Israeli development companies.
- Venture capital fund/investment company planning to invest in a minimum of t 3 ventures of energy development companies in Israel during the coming year.
- Individual investors (angels) seeking to identify and consider investing in energy development companies, with a total minimum annual budget of 1 million NIS .
- Israeli and foreign accelerators and Incubators with a portfolio which includes 3 energy companies, at minimum.

*Electric and electronic components developed or produced by companies without a direct association to fields defined by the Community as fields of focus are excluded from the report.

Due to the market dynamics, we would appreciate any proposals for changes to the definitions, updates, and/or additions/amendments to the data and entities described herein.

Our data-driven analysis mapped companies whose main activities are exclusively related to the energy industry. Based on the data, Israel has 236 energy-related development companies, 60 energy-related service companies, and 19 venture capital funds with substantial energy activity.

REPORT DATA SOURCES

SOURCES

As stated in the introduction, this report is based on data collected from a variety of sources, with updates and additions by the Community team. The report serves as a preliminary basis for development of future reports, in which the community's knowledge will be harnessed in order to update and optimize the data contained therein. The mapping process involved review of various publications, relying on the community's familiarity with the market, and holding discussions with various companies. In compiling the list of companies, we relied on several sources:

- **Development Companies:**

- A publication from August 2022 by Start-Up Nation Central (1), the Export Institute, and Ignite the Spark which provided a comprehensive analysis of Israel's leading energy companies. IVC Data & Insights research center database (2).
- “Capital Nature” venture capital fund (3).

- **Companies classified as public:**

MAYA system, under the energy sector category, as well as Clean-Tech under the high technology sector.

- **Research areas:**

Information received from research institutes.

- **Grants from the Ministry of Energy:**

The Chief Scientist of the Ministry of Energy

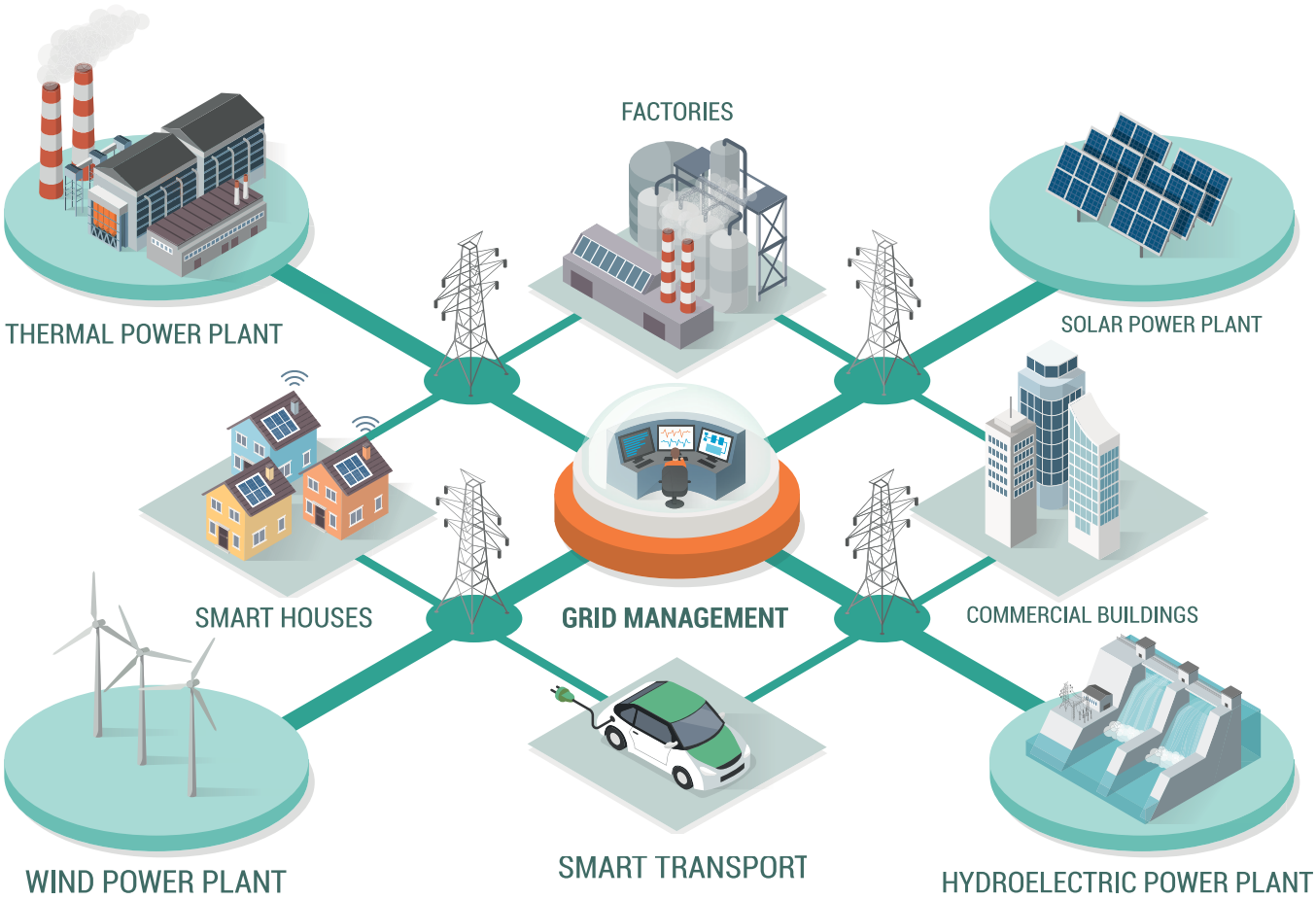
- **Investments Data - IVC Research center’s database - Analytics**

1 START-UP NATION CENTRAL

2 IVC Data & Insights research center

3 Capital Nature

THE FUTURE GRID, A WEALTH OF OPPORTUNITIES AND NEED FOR INNOVATION



DEVELOPMENT COMPANIES

DEVELOPMENT COMPANIES

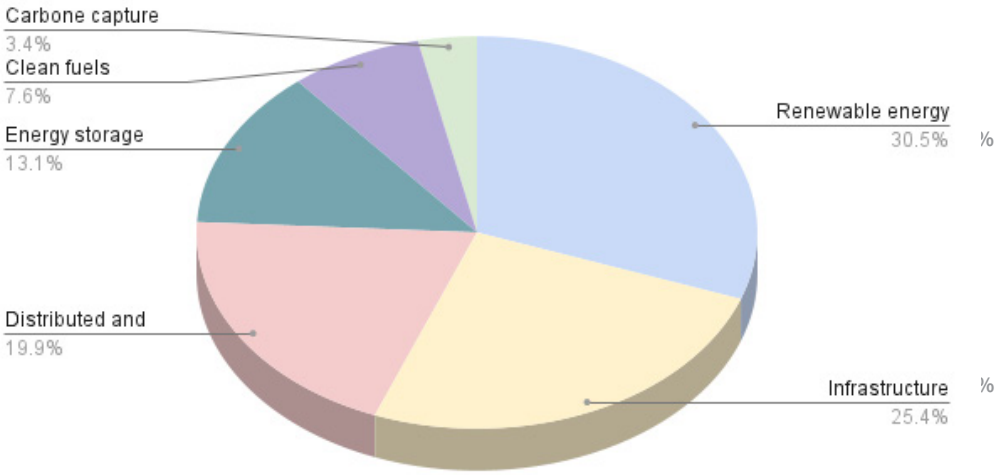
The following is a list of the 236 development companies. It is notable that good distributions exist among development companies involving renewable energy, storage, infrastructure, distributed energy and energy consumption.

Furthermore, there is a tremendous revival in the field, including a great interest expressed in development companies that recently went public which are indicated by (+).

Companies by Sector:

Sector	Number of companies
Renewable energy	72
Infrastructure	60
Distributed Energy and Energy Consumption	47
Energy storage	31
Clean fuels	18
Carbone capture	8
Total	236

Development companies divided to sectors



Renewable Energy

Since renewable energy was the first sector to develop in Israel, this sector contains the highest number of companies Listed below are the development companies in the field of renewable energy

Generation technologies

- Apollo Power
- Arbell Energy
- BrightSource Industries
- Eco Wave Power
- Enervibe
- Exency
- Flower Turbines
- HomeBiogas
- Kedma Solar
- Kenotomi
- Koren Energy
- Leviathan Energy
- Luminescent
- Magen eco-Energy
- Matalon
- Millennium Electric T.O.U.
- Nimrod Industries
- Olivebar
- Ormat Technologies (+)
- P.G. Solar Greener
- PV Nano Cell
- Seanergy Electric
- SGTech
- Sky-walls
- SolarAce
- Solargik
- SolAround
- SolarWat
- Solatics
- Solcold
- SolOr
- SOLRA
- Spheratec Technologies
- Rainbowtec
- ThermoTerra
- TurboGen (+)
- Tigi (+)
- W.J. Gabriel Smart Buoy
- Yam Pro Energy
- Zohar CleanTech

Enablers

- Airtouch Solar (+)
- Amitec
- BladeRanger (+)
- Dustoss
- E2ESolar
- Ecoppia (+)
- Elements
- Fast Sense
- First Airborne
- Found Energy
- GreenDays
- Greeneum
- Meteo-Logic
- Olive Engineering
- PVpredict
- Raycatch
- Recive
- Refhuel
- RePlace
- Rhino Eco
- SolarBead
- SolarEdge (+)
- Solaris Hydrobotics
- Soltell Systems
- Sun Effect
- Solar Drone
- Tomorrow.io
- Vigdu Technologies

Dual Use

- Agri-light energy Systems
- Bing Klima
- Red Solar flower
- Sun'Agri

Distributed Energy and Energy Consumption

Due to its rapid development globally, it can provide a broad platform for the rapid development of additional companies in a wide range of subfields.

Listed below are the development companies in the field of Distributed Energy

Energy efficiency

- Agam Greenhouse Energy Systems
- Alteco
- Catom Energy
- Centrica
- CET Enviro
- Chromage - Acquired by Ariston Group on Oct, 2021n
- CoreOne
- EcoPlant
- Eneriqs
- enVerid Systems
- eSave
- eVolution Networks
- Fenec
- Fotonica
- Green Power Management
- GreenTech Energy
- Intellithings
- IOSight
- Juganu
- Laminera Flow Optimization
- Menolinx Systems
- Metrolight
- MindoLife
- Nam Technology
- Phoebus Energy
- Pollight
- PowerPlug
- RST CleanTech
- Setpoint
- Siga
- Solight
- Sowillo Energy
- Structure-Pal
- Vintec Knowledge
- Vortex Energy
- Wildberry energy
- Znergy
- Zero Energy Solutions

Off-Grid

- Aquarius Engines (+)
- AHG Energy
- Lumiweave
- Moon Solar Light
- OASIX
- Qnergy
- Sologic
- Tamuz Electronics
- The Sustainable Group

Infrastructure Companies

It is a broad field that involves large procurement budgets for upgrading existing infrastructure and building new infrastructure. For companies in the communication and computer sectors, the field presents many opportunities.

Listed below are the companies active in this field:

Smart grid

- 3d Signals
- Aperio Systems
- Augury
- Ayyeka
- Claroty
- EGM
- Elspec Engineering (+)
- Energy trading
- enSights - Acquired by Tigo Energy on Dec, 2022
- Eta-Bar
- FSIGHT
- Galooli
- Grid4C
- GridON
- IOSight
- Isra-Juk Electronics
- Jether Energy
- Locusview
- mPrest
- MTR Wireless Communications
- Metrycom Acquired, 12.2021
- Nortex Technologies
- Ofil
- PDP-Tech
- Percepto
- Contel Smart Energy
- Phasor
- Power IQ
- Powercom
- Prisma Photonics
- Radiflow - Acquired by Sabanci Group on Apr, 2022
- Reali Technologies
- SATEC Powerful Solutions
- SCADAfence
- Synvertec
- Tondo (+)
- Vollspark

Electric transportation

- BaTTeRi
- Brightmerge
- Driivz Acquired by Vontier on Feb, 2022
- ElectReon (+)
- Electricare
- E-phorus
- ETV Energy
- EV Meter
- EVR Motors
- Gnrgy
- Green ELMF Cables
- Make My Day
- Wevo Energy

Gas and oil digitization

- AGM Communication & Control
- BQR
- CleanFlare
- Imubit
- MetaBIM
- Mobideo Technologies
- Modcon Systems
- optiQGain
- Phononia
- Precognize
- Xbeamer

Energy Storage

Currently, this appears to be the most exciting field in the energy industry, since the imperative need to reduce generation peaks and address the inaccessibility of renewable energy sources. Additionally, energy storage solutions remain prohibitively expensive and challenging to economically justify.

Listed below are the companies active in this field

Utility Scale

- Augwind (+)
- BaroMar
- Storage Drop (+)

Distributed

- Brenmiller Energy (+)
- GenCell (+)
- EVChip
- Mada Analytics
- NRG Spring
- Phoenician Energy

Behind the meter

- Therma Sphera
- Emmesh
- Nostromo Energy (+)
- Sol Chip
- VoltaNano
- YAFA Technologies

Electric Vehicle Energy Storage

- 3DBattery
- Addionics
- AlgoLion
- Battery Solution International
  Acquired by MPI SERVICES SP. Z O.O on Mar, 2014
- CENS Materials
- Chiral Energies
- Dr Ten
- EExion
- Epsilor-Electric Fuel
- EVChip
- EVolution
- Phinergy (+)
- Salvation Battery
- Silib
- StoreDot
- ZOOZ (+)

Clean Fuels

This report also identifies additional companies whose solutions pertain to clean fuels, specifically hydrogen, categorized under different fields based on their applicability (e.g. storage). Hydrogen is a topic worth of particular attention, in light of the heightened interest and numerous plans for its development on a global scale.

Listed below are the companies active in this field:

Hydrogen

- Boson Energy
- Electriq Global
- Edrei Bio Hydrogen
- H2Pro
- H2 Energy Now
- Hydrolite
- HyS Energy
- HydroX
- Maygia
- Purammon
- Refhuel
- QD-SOL

Fuel alternatives

- Co-Energy
- EnzymoCore
- Fornax
- New Delek
- NitroFix
- Plastic Back

Carbon capture

- Airovation Technologies
- Albo Climate
- Bomvento Capture
- Carbonade
- High Hopes labs
- RepAir Carbon Capture
- Rplace
- Standard Carbon

SERVICE COMPANIES

SERVICE COMPANIES

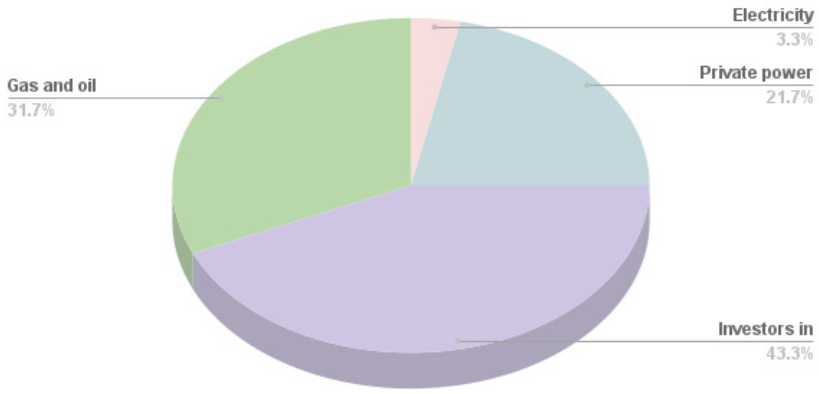
The term refers to companies whose primary activities are the provision of services, such as electricity generation, investments in energy projects, fuel transportation, exploration of or production of natural gas and oil, as explained above under "Definitions" in the present Report. In this report, we mapped 60 leading Israeli and foreign service companies.

In the Israeli energy industry, service companies are a significant and important component, not only as providers of employment, but also as a means of pursuing opportunities for innovation, development, and investment, as well as a local market for the provision of innovative solutions. Publicly-traded service companies are indicated by (+)

Investors in energy projects (such as solar, storage, etc.) with operational activity, but who are strictly financial investors are included in this section.The service companies were divided into four groups, as follows:

Field	Number of companies
Israel Electricity Corporation	2
Private power producers	13
Investors in projects and renewable energy generation	26
Gas and oil exploration	19
Total	60

ISRAELI SERVICE COMPANIES



Electricity Generation

- Israel Electricity Corporation
- Netiv HaOr - Orot Rabin

Private power producers

- Alon energy centers (+)
- Dalia energy (+)
- Dead Sea Works
- Dorad
- Edeltech Group
- IPM - Beer Tuvia
- Kesem
- Mashav
- OPC's - Rotem (+)
- Paz Group (+)
- Rapac Energy (+)
- Reindeer energy
- Shikun & Binui (+)

Investors in projects and renewable energy generation

- Allied Group
- Alon Gas (+)
- BARAN group
- Doral Group (+)
- EDF Renewables Israel
- E.D.I
- Ellomay Capital (+)
- Energix Group (+)
- Enlight (+)
- Global Power (+)
- Helios
- Migdal (+)
- Nofar Energy (+)
- Lahav green energy
- Marom energy
- Mishkei Hakibutzim (+)
- Prime Energy (+)
- Rotem Energy Mineral (+)
- S'energy
- Shikun & Binui's energy
- Solaer Israel (+)
- Solegreen Renewable Energy (+)
- TeraLight
- The Noy Fund
- The Phoenix
- Zero Waste

Gas and oil exploration, production and processing

- BP- Oil & Gas (+)
- Chevron- Oil & Gas (+)
- Givot Olam Oil Exploration (+)
- Globe Exploration (+)
- Israel Opportunity (+)
- Isramco (+)
- Lapidoth Capital (+)
- Modiin Energy (+)
- Navitas Petroleum (+)
- Ratio Oil Exploration (+)
- Ratio Petroleum (+)
- Energean (+)
- Bazan (+)
- Dor Alon (+)
- Delek Group (+)
- Tamar Petroleum (+)
- Petroleum & Energy
- Infrastructures LTD (+)
- SuperGas Energy (+)

FOREIGN ENERGY COMPANIES OPERATING IN ISRAEL

There are an increasing number of foreign companies that are establishing dedicated operations in Israel aside from sales. These companies include various energy service companies such as: Enel, E.ON, Centrica, BP, Engie, Inven, CLP, NYPA, as well as international development companies such as: Schneider Electric, Siemens, GE and others.

As one of the major tiers of Israeli innovation in the field of energy, these companies range from development centers to identification and implementation of technologies to investments.

INVESTORS IN THE ISRAELI ENERGY SECTOR

Venture capital investors

- BP
- BIRD Foundation
- Capital Nature
- Centrica
- Chevron
- CLP OSEG
- Doral Energy-Tech Ventures
- ENGIE New Ventures
- Future Energy Venture
- Firstime Ventures
- Good Company VC
- Israel Electric Corporation (+)
- MoreVC
- NetZero Technology Ventures
- OSEG
- Nomea
- SIBF.Vc
- Terra Venture Partner
- q fund

Accelerators, Incubators & Beta sites

- Ashdod Port Accelerator
- Capsula TAU
- ClimateLaunchpad ISRAEL Accelerator
- Climate First
- Esil - environmental sustainability innovation lab
- Highroad Launchpad
- Horizon - GreenTech Ventures
- InNegev
- IN-VENTech
- KIC Accelerator
- MassChallenge Israel
- Quantom hub
- Road2

Partner communities

- DESERTech
- EcoMotion
- Ignite the Spark
- MuniTech
- PLANETech
- WaterEdge.IL

ACADEMIC RESEARCH

ACADEMIC RESEARCH

The academic field plays an essential and integral role in developing human capital and promoting research and innovation. Below we have compiled a preliminary mapping of research fields and researchers based on information provided by research institutions. In order to facilitate both industry-academy collaboration and inter-university collaboration, we urge other research institutes to contribute information to this mapping effort.

Fields of Research

Afeka College
Hydrogen production and use. Combustion systems.
Energy storage. Distribution of the spectrum of the solar radiation.
Electric propulsion of smart transportation systems. Smart cities, changing consumption through a change in the behavior.
Management of transportation and energy systems.
Efficiency and management of hospital energy systems.
Efficiency and management of the energy systems of hospitals.
Efficiency and management of the energy systems of hospitals; solar desalination: using solar energy directly for water desalination.

Ariel University - Ariel Energy Research Center (AERC)	
Energy Storage	Thermal energy storage
	Chemical energy storage
	Hydrogen energy storage
	Electrochemical batteries
	High voltage energy packs
Solar energy	Improving PV panels efficiencies
	Thermal energy
	Solar refrigeration
High power	High power energy sources
	Electromagnetic radiation transmission

Fuels and Hydrogen	Biofuels
	Fuel cells
	Hydrogen generators
	Hydrogen storage

Azrieli, Academic College of Engineering, Jerusalem

Optimization of Vertical Axis Wind Turbines, Savonius and Darrieus, Types. Mapping and Verification of high efficiency sites on Tall buildings rooftops, Collaboration with the Earth Sciences Center at HUJ and PNW University, US.

Evaluation and improving performance of rooftop PV panels in an urban environment, Irrigation by condensation of moisture from atmospheric air optimization methodology for selection and evaluation of energy solution

Bimetal-based pump/compressor driven by a renewable energy source. Use of a smart device to enhance private air conditioning systems transmitting natural light based on waveguides.

Tribology methods for friction reduction in automobile and machine industries

Bar-Ilan University

Development of electrochemical power sources for all types of transportation, high-volume energy storage, hydrogen economy, scores of technologies.

Development of photovoltaic cells for the conversion of solar energy.

Preparation of useful fuels from various types of organic waste.

Power grid management, switching and cyber protection.

Robotics (for example, cleaning solar panels by drones).

Regulation (by Law School specialists).

Environmental issues: smart cities, smart transportation.

Artificial intelligence in the context of grid management, switching and smart transportation.

Hydrogen economy, hydrogen production, storage, transportation, and opening of fuel cells.

All types of electrochemical devices for the accumulation and storage of energy, rechargeable batteries, supercapacitors, and flow systems.

Development of electrochemical power sources for electric propulsion.

Use of renewable energy, open photovoltaic systems
Large-scale systems development for renewable energy storage.
Development of wireless charging technologies.
Development of tiny energy devices and sensors.
Development of innovative materials, surface technologies, and innovative analytical methods for advanced energy devices.
Development of computational methods and artificial intelligence for the needs of the energy economy.
Open networks for efficient transport, switching, and distribution of energy.
Energy interactions - sustainability, environmental aspects, and regulation.
Ben Gurion University in the Negev
Renewable energy, clean fuels and energy storage, green building and energy efficiency, management and policy.
Establishment of the BGU Energy and Sustainability Center.
Nuclear energy.
Distributed energy and energy infrastructure.
Cyber security for energy facilities.
Gas and oil.
Metal hydrides and hydrogen storage
Haifa University
Bioethanol production from waste – preliminary processes and alternative yeast, lipases for biodiesel.
Energy and waste policy and life-cycle analysis.
MIGAL - Galilee Research Institute

APV	Improving agriculture
	Improving power generation
	Improving land use
	Providing income for independent farmers

Reichman University

Social-technical-economic aspects of energy and low-carbon energy services.
What will future energy markets look like and who will be the dominant players? – prosumers, microgrids, energy communities.
Behavior of energy consumers and consumer involvement in the energy market (load reduction and diversion, integration of prosumer services, smart homes, electric vehicles).
Attitude of the public regarding the combination of various energy sources in the fuel composite (mainly nuclear).
Assessment and modeling of the water-energy-food nexus in Israel and extraneous influences (in collaboration with the Hebrew University and others).
Development of a conceptual framework for the assessment of energy security for Israel in both the short and the long term and coping strategies.
Personal carbon trading as a policy tool to reduce energy emissions.
Energetic poverty.

Tel Aviv University

Collaboration with the Biological Institute on the atmospheric boundary layer with adaptation to wind energy in an urban environment, vegetation, mountainous environment; effect of wind energy on the turbulent flow downstream behind wind turbines; the effect on structures, noise, etc.
Collaboration with the Sorek Nuclear Research Center on issues of measurements of instability in cooling pools, flow and heat transfer across rods, natural transport and impact on transition between strata in cooling pools.
Collaboration with Prof. Alexander Golberg of the Porter School of the Environment regarding production of fuels from seaweed.
Transporting of gas from the production wells to the treatment rig. The Ministry of Energy is funding two studies, one is ending now and the other one started earlier this year. The research topics are: 1. Water displacement from lower sections of oil and gas pipelines- experiments, modeling and numerical simulations. 2. Two-phase flow hydrodynamics and flow-induced vibrations in subsea gas production systems – jumpers.
Research Laboratory: The Solar Energy Laboratory.
Study: Numerical simulations of combustion processes, propulsion systems, thermal energy storage.

Natural gas and oil reserves.
Flow and heat transfer as well as in boiling, whereas all of which relate to cooling methods used in energy applications, such as: photovoltaic cells for high temperatures.
Research on load detection in the electricity grid through readings in smart meters using NILM methods. Research on the optimization of smart electrical grids combined with penetration of photovoltaic systems. Research on the solution of distribution networks by hierarchical neural networks.
The energy research laboratory: Three main projects: 1. Specification of advanced solar cells (funded by the Ministry of Energy); 2. Development of solar cells that produce electricity and hydrogen simultaneously (hydrogen production is achieved by breaking down water); 3. Development of water desalination systems having high energy efficiency.
Energy Materials Laboratory – Heterogeneous catalysis in gas phases and also electro-catalysis. Design and specification of nanocatalysts for PEM and AFC fuel cells, as well as high-temperature SOFC fuel cells. Design of catalysts for breaking down water into hydrogen through thermo-chemistry and electro-chemistry. Pyrolysis of methane into carbon and hydrogen; design of reactors and catalysts for reactions with methane and carbon dioxide (methane dry reforming). Electrochemistry, electro-decantation of materials and catalysts, innovative ceramic materials for catalysis.
Bioethanol production from waste – pre-exchange processes.
Electrochemistry. Hydrogen interactions with materials, including in the context of energy systems and hydrogen storage. Electrochemical decantation of refractory alloys and of advanced ceramic materials for catalysis in energy systems.
Tel-Hai Academic College
Bioethanol production from olive waste.
The Hebrew University of Jerusalem
Social acceptance of energetic innovation, including social, political, institutional and community acceptance. Questions such as the role of institutional experience in advancing energy projects; the cost of remorse for energy mega-projects; energetic innovation in areas of conflict.
The Technion – Israel Institute of Technology
Enhancement of lipases for biodiesel production.
Alternative Fuels
Computational Research
Energy Conservation
Energy Storage and Conversion
Renewable Energy Sources

Researchers

Afeka College

- Dr. Yinon Yavor
- Dr. Sharon Gat
- Dr. Gur Mittelman
- Dr. David Berla
- Professor Erel Avineri
- Dr. Moshe Tshuva
- Professor Yuval Cohen

Ariel University - Ariel Energy Research Center (AERC)

- Dr. Nir Tzabar – head of the AERC
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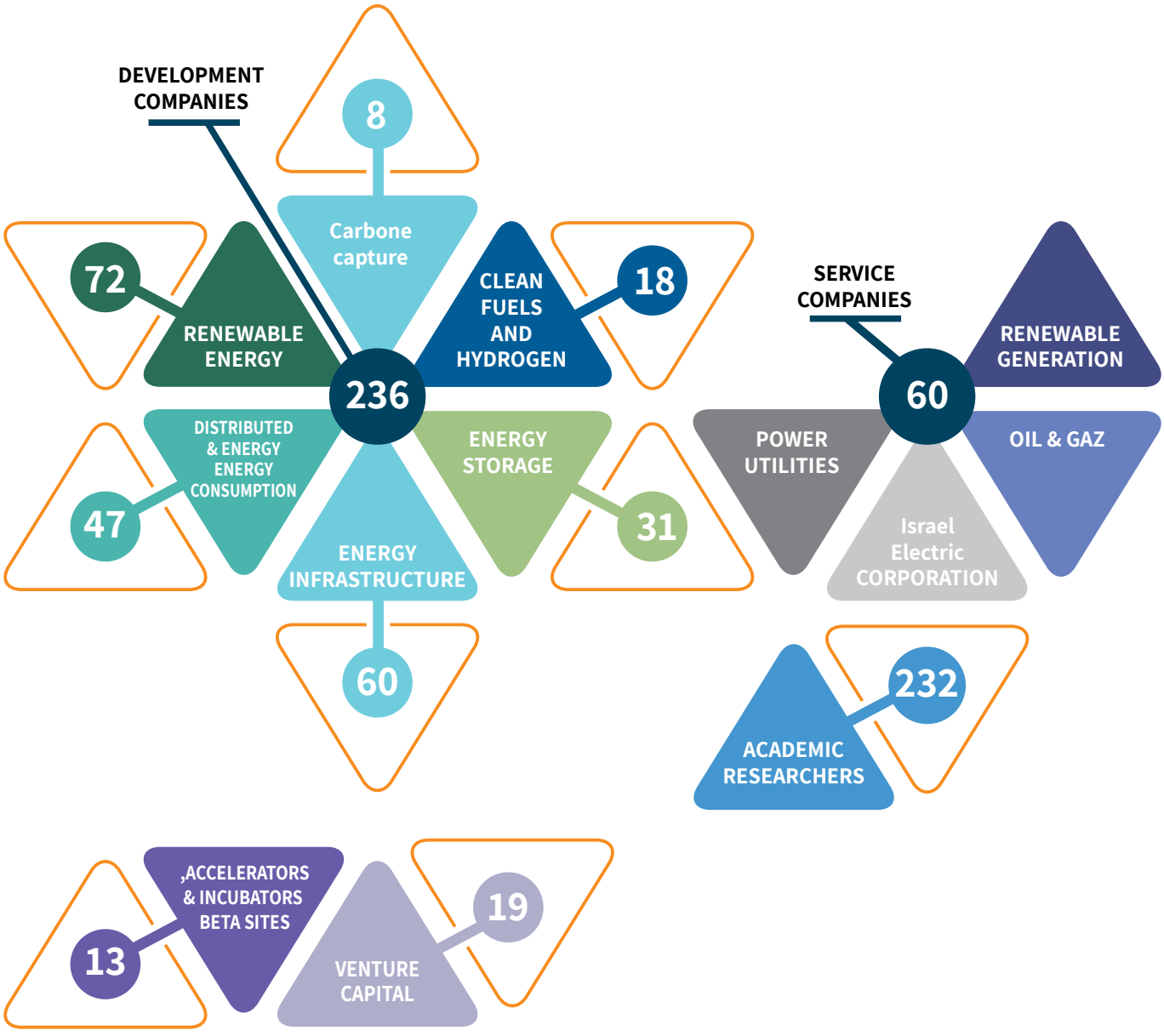

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DEVELOPMENT COMPANIES

DEVELOPMENT COMPANIES

A list of the companies is provided below in alphabetical order. By clicking on the logo, you will be able to access the company's website:

LOGO & LINK	COMPANY NAME	SECTOR	SUBSECTOR	ESTABLISHED
3dSignals	3d Signals	Infrastructures	Smart grid	2015
3DBATTERY	3DBattery	Energy storage	Energy storage for EV	2017
ADDIONICS	Addionics	Energy storage	Energy storage for EV	2017
Agam	Agam Greenhouse Energy Systems	Distributed Energy and Energy Consumption	Energy efficiency	2009
AGM	AGM Communication & Control	Infrastructures	Gas and oil digitization	1995
Agri-Light	Agri-Light Energy Systems	Renewable energy	Dual use	2020
AL-HADESHE GREEN ENERGY ADVANCED SOLAR SYSTEMS	AHG Energy	Distributed Energy and Energy Consumption	Off-Grid	2009
airovation technologies	Airovation Technologies	Carbon capture		2013
airtouch	AirTouch solar	Renewable energy	Enabler	2016
Albo CLIMATE	Albo Climate	Carbon capture		2019

LOGO & LINK	COMPANY NAME	SECTOR	SUBSECTOR	ESTABLISHED
ALGOLION	AlgoLion	Storage	Energy storage for EV	2014
alteco	Alteco	Distributed Energy and Energy Consumption	Energy efficiency	2020
	Amitec	Renewable energy	Enabler	1997
AMSTAF-UGV Ltd.	AMSTAF UGV	Renewable energy	Eneabler	2021
APERIO	Aperio Systems	Infrastructures	Smart grid	2016
APOLLO POWER	Apollo Power	Renewable energy	Generation technologies	2014
AQUARIUS	Aquarius Engines	Distributed Energy and Energy Consumption	Off-Grid	2014
Arbell Energy	Arbell Energy	Generation technologies		2018
AUGURY	Augury	Infrastructure	Smart grid	2012
	Augwind	Energy storage	Utility Scale	2007
AYYEKA	Ayyeka	Infrastructures	Smart grid	2015
BAROMAR	BaroMar	Energy Storage	Utility scale	2022
	BaTTeRi	Infrastructures	Electric transportation	2022

LOGO & LINK	COMPANY NAME	SECTOR	SUBSECTOR	ESTABLISHED
BSI	Battery Solution International	Energy storage	Energy storage for EV	2009
BING Klima	Bing Klima	Renewable energy	Dual use	2021
BladeRanger	BladeRanger	Distributed Energy and Energy Consumption	Enabler	2015
Bomvento Carbon Removal Solution	Bomvento	Carbon capture		2022
Boson Energy	Boson Energy	Clean fuels	Hydrogen	2008
BRENMILLER ENERGY	Brenmiller Energy	Energy storage	Distributed	2012
BQR Reliable Engineering Optimized Maintenance	BQR	Infrastructures	Gas and oil digitization	1989
B	Brightmerge	Infrastructure Companies	Electric transportation	2018
BrightSource Limitless	BrightSource Industries	Renewable energy	Generation technologies	2004
	Carbonade	Carbon capture		2022
CATOM ENERGY	Catom Energy	Distributed Energy and Energy Consumption	Energy efficiency	1998
CENS	CENS Materials	Energy storage	Energy storage for EV	2014
CET ENVIRO	CET Enviro	Distributed Energy and Energy Consumption	Energy efficiency	-

LOGO & LINK	COMPANY NAME	SECTOR	SUBSECTOR	ESTABLISHED
centrica	Centrica	Distributed Energy and Energy Consumption	Energy efficiency	1812
Chiral energies	Chiral Energies	Energy Storage	Energy storage for EV	2022
Chromagen	Chromagen	Distributed Energy and Energy Consumption	Energy efficiency	1962
CLAROTY	Claroty	Infrastructures	Smart grid	2014
CLEANFLARE	CleanFlare	Infrastructures	Gas and oil digitization	2021
CO-ENERGY	Co-Energy	Clean Fuels	Fuel alternatives	2014
CONTEL Smart Energy	Contel Smart Energy	Infrastructures	Smart grid	1964
COREONE	CoreOne	Distributed Energy and Energy Consumption	Energy efficiency	2010
driivz	Driivz	Infrastructures	Electric transportation	2012
Dr Ten	Dr Ten	Energy storage	Energy storage for EV	-
Dustoss	Dustoss	Renewable energy	Enabler	2021
	E-phorus	Infrastructure	Electric transportation	2021
E2ESolar	E2ESolar	Renewable energy	Enabler	2018

LOGO & LINK	COMPANY NAME	SECTOR	SUBSECTOR	ESTABLISHED
Eco Wave Power	Eco Wave Power	Renewable energy	Generation technologies	2011
Ecoppia Empowering Solar	Ecoppia	Renewable energy	Enabler	2013
ECOPLANT	EcoPlant	Distributed Energy and Energy Consumption	Energy efficiency	2016
EDREI BIO HYDROGEN	Edrei Bio Hydrogen	Clean fuels	Hydrogen	2010
EEXION ENERGIZE N' GO	EExion	Storage	Energy storage for EV	2019
EGM Eyes on The grid	EGM	Infrastructures	Smart grid	2007
ELECTREON CHARGING THE WAY FORWARD	ElectReon	Infrastructures	Electric transportation	2013
electricare	Electricare	Infrastructures	Electric transportation	2021
	Electriq Global	Clean fuels	Fuel alternatives	2013
ELEMENTS	Elements	Renewable energy	Enabler	2021
ELSPEC Where Power Meets Quality	Elspec Engineering	Infrastructures	Smart grid	1988
EMMESH	Emmesh	Energy storage	Behind the meter	2020
EMNOTION	Emnotion	Renewable Energy	Enablers	2016

LOGO & LINK	COMPANY NAME	SECTOR	SUBSECTOR	ESTABLISHED
ENERIQS	Eneriqs	Distributed Energy and Energy Consumption	Energy efficiency	2011
ENERGY TRADING	Energy Trading	Infrastructure	Smart grid	2021
ENERVIBE	Enervibe	Renewable energy	Generation technologies	2018
	enSights	Infrastructures	Smart grid	2021
enVerid	enVerid Systems	Distributed Energy and Energy Consumption	Energy efficiency	2010
enzymocore	EnzymoCore	Clean Fuels	Fuel alternatives	2007
Epsilor	Epsilor Electric Fuel	Storage	Energy storage for EV	1985
eSave Ltd. Power-saving systems	eSave	Distributed Energy and Energy Consumption	Energy efficiency	2012
ETVENERGY Electric Technology For Vehicles	ETV Energy	Infrastructures	Electric transportation	2008
EV smeters	EV Meter	Infrastructures	Electric transportation	2019
EVOLUTION	EVolution	Storage	Energy storage for EV	2021
eVolution networks	eVolution Networks	Distributed Energy and Energy Consumption	Energy efficiency	2011
EVchip smart energy	EVChip	Energy storage	Distributed	2012

LOGO & LINK	COMPANY NAME	SECTOR	SUBSECTOR	ESTABLISHED
	EVR Motors	Infrastructures	Electric transportation	2012
	Exency	Renewable energy	Generation technologies	2016
	Fast Sense	Renewable energy	Eneblers	2021
	Fenec	Distributed Energy and Energy Consumption	Energy efficiency	2018
	First Airborne	Renewable energy	Eneabler	2017
	Flower Turbines	Renewable energy	Generation technologies	2013
	Fornax	Clean Fuels	Fuel alternatives	2022
	Fotonica	Distributed Energy and Energy Consumption	Energy efficiency	2013
	Found Energy	Renewable energy	Eneabler	2022
	FSIGHT	Infrastructures	Smart grid	2014
	Galooli	Infrastructures	Smart grid	2009
	GenCell	Energy storage	Distributed	2011
	Gnrgy	Infrastructures	Electric transportation	2008

LOGO & LINK	COMPANY NAME	SECTOR	SUBSECTOR	ESTABLISHED
green cables	Green ELMF Cables	Infrastructures	Electric transportation	2011
G.P.M Green Power Management	Green Power Management	Distributed Energy and Energy Consumption	Energy efficiency	2008
GreenDays	GreenDays	Renewable energy	Enabler	2022
	Greeneum	Renewable energy	Enabler	2017
GreenTech Energy	GreenTech Energy	Distributed Energy and Energy Consumption	Energy efficiency	2008
Grid4C Foreseeing Power	Grid4C	Infrastructures	Smart grid	2013
GridON	GridON	Infrastructures	Smart grid	2009
H2 Energy Now	H2 Energy Now	Clean fuels	Hydrogen	2011
H2PRO	H2Pro	Clean fuels	Hydrogen	2019
HOMEBIOGAS	Homebiogas	Renewable energy	Generation technologies	2012
HIGH HOPES	High Hopes labs	Carbon capture		2020
HydroLite	Hydrolite	Clean fuels	Hydrogen	2016
HydroX	HydroX	Clean fuels	Hydrogen	2016

LOGO & LINK	COMPANY NAME	SECTOR	SUBSECTOR	ESTABLISHED
HyS Energy	HyS Energy	Clean Fuels	Hydrogen	2016
INTELLITHINGS	Intellithings	Distributed Energy and Energy Consumption	Energy efficiency	2014
IOSight	IOSight	Distributed Energy and Energy Consumption	Energy efficiency	2007
IMUBIT	Imubit	Infrastructures	Gas and oil digitization	2016
ISRA-JUK ELECTRONICS	Isra-Juk Electronics	Infrastructures	Smart grid	1999
	Jether Energy	Infrastructures	Smart grid	2013
Juganu	Juganu	Distributed Energy and Energy Consumption	Energy efficiency	2010
	Kedma Solar	Renewable energy	Generation technologies	2016
KENOTOMI	Kenotomi	Renewable energy	Generation technologies	2007
QR Energy	Koren Energy	Renewable energy	Generation technologies	2015
ABi ENERGY	Laminera Flow Optimization	Infrastructures	Gas and oil digitization	2017
Leviathan Energy	Leviathan Energy	Renewable energy	Generation technologies	2008
	Locusview	Infrastructures	Smart grid	2014

LOGO & LINK	COMPANY NAME	SECTOR	SUBSECTOR	ESTABLISHED
Luminescent	Luminescent	Renewable energy	Generation technologies	2020
LUMIWEAVE	Lumiweave	Distributed Energy and Energy Consumption	Off-Grid	2010
MADA ANALYTICS	Mada Analytics	Energy storage	Distributed	2017
MAGEN eco-energy	Magen eco-Energy	Renewable energy	Generation technologies	1973
	Make My Day	Infrastructures	Electric transportation	2017
MATALON Energy Sources	Matalon	Renewable energy	Generation technologies	2009
maygia	Maygia	Clean fuels	Hydrogen	2019
	Menolinx Systems	Distributed Energy and Energy Consumption	Energy efficiency	2006
	MetaBIM	Infrastructures,	Gas and oil digitization	2020
	Meteo-Logic	Renewable energy	Enabler	2011
METROLIGHT LIGHT FORWARD	Metrolight	Distributed Energy and Energy Consumption	Energy efficiency	1996
Metrycom	Metrycom	Infrastructures	Smart grid	2008

LOGO & LINK	COMPANY NAME	SECTOR	SUBSECTOR	ESTABLISHED
Millennium Electric T.O.U. Ltd.	Millennium Electric T.O.U.	Renewable energy	Generation technologies	1999
MindoLife	MindoLife	Distributed Energy and Energy Consumption	Energy efficiency	2014
mobideo	Mobideo Technologies	Infrastructures,	Gas and oil digitization	2007
MODCON	Modcon Systems	Infrastructures	Gas and oil digitization	1972
MSL	Moon Solar Light	Distributed Energy and Energy Consumption	Off-Grid	1994
mPrest	mPrest	Infrastructures	Smart grid	2003
MTR	MTR Wireless Communications	Infrastructures	Smart grid	2009
NAM TECHNOLOGY	Nam Technology	Distributed Energy and Energy Consumption	Energy efficiency	2014
NewDelek	New Delek	Clean fuels	Fuel alternatives	2017
NCF New CO2 Fuels	NewCO2Fuels	Clean fuels	Fuel alternatives	2011
NIMROD	Nimrod Industries	Renewable energy	Generation technologies	1967
NITROFIX Generating Green Ammonia	NitroFix	Clean Fuels	Hydrogen	2022
NortexTechnologies	Nortex Technologies	Infrastructures	Smart grid	2010

LOGO & LINK	COMPANY NAME	SECTOR	SUBSECTOR	ESTABLISHED
	Nostromo Energy	Energy storage	Behind the meter	2016
	NRG Spring	Energy storage	Distributed	2015
	OASIX	Distributed Energy and Energy Consumption	Off-Grid	2022
	Ofil	Infrastructures	Smart grid	1993
	Olive Engineering	Renewable Energy	Enablers	2007
	Olivebar	Renewable energy	Generation technologies	2008
	optiQGain	Infrastructures	Gas and oil digitization	2011
	Ormat Technologies	Renewable energy	Generation technologies	1965
	PDP-Tech	Infrastructures	Smart grid	2014
	Percepto	Infrastructures	Smart grid	2014
	P.G. Solar Greener	Renewable energy	Generation technologies	2016
	Phasor	Infrastructures	Smart grid	2018
	Phinergy	Storage	Energy storage for EV	2009

LOGO & LINK	COMPANY NAME	SECTOR	SUBSECTOR	ESTABLISHED
PHOEBUS ENERGY	Phoebus Energy	Distributed Energy and Energy Consumption	Energy efficiency	2007
	Phoenician Energy	Energy storage	Distributed	2019
PhononIA	Phononia	Infrastructures	Gas and oil digitization	2020
Plastic Back	Plastic Back	Clean fuels	Fuel alternatives	2020
Pollight	Pollight	Distributed Energy and Energy Consumption	Energy efficiency	2011
Power IQ	Power IQ	Infrastructures	Smart grid	2019
	Powercom	Infrastructures	Smart grid	2006
	PowerPlug	Distributed Energy and Energy Consumption	Energy efficiency	2009
PRECOGNIZE	Precognize	Infrastructures	Gas and oil digitization	2011
prisma photonics	Prisma Photonics	Infrastructures	Smart grid	2017
Purammon	Purammon	Clean Fuel	Hydrogen	2016
pvnanocell	PV Nano Cell	Renewable energy	Generation technologies	2009
PV PREDICT	PVpredict	Renewable energy	Enabler	2012

LOGO & LINK	COMPANY NAME	SECTOR	SUBSECTOR	ESTABLISHED
QD-SOL™	QD-SOL	Clean Fuels	Hydrogen	2021
Qnergy	Qnergy	Distributed Energy and Energy Consumption	Off-Grid	2009
Radiflow	Radiflow	Infrastructures	Smart grid	2009
Raycatch	Raycatch	Renewable energy	Enabler	2015
Rainbowtec	RAINBOWTEC	Renewable energy	Generation technologies	2009
RealiteQ Real Time Remote Control and Monitoring	Reali Technologies	Infrastructures	Smart grid	2007
RECIV	Recive	Renewable Energy	Eneabler	2022
RSF	Red Solar Flower	Renewable energy	Dual use	2020
REFUEL REVERSIBLE FUEL CELL TECHNOLOGY	Refhuel	Renewable energy	Enabler	2022
REPAIR	RepAir Carbon Capture	Carbon capture		2020
REplace	RePlace	Renewable Energy	Eneabler	2022
Rhino Invest in people eco	Rhino Eco	Renewable Energy	Eneabler	2021
Rplace	Rplace	Carbon capture		2022

LOGO & LINK	COMPANY NAME	SECTOR	SUBSECTOR	ESTABLISHED
RST CleanTech Solutions	RST CleanTech	Distributed Energy and Energy Consumption	Energy efficiency	2013
Salvation Battery	Salvation Battery	Energy storage	Energy storage for EV	2019
SATEC Powerful Solutions	SATEC Powerful Solutions	Infrastructures	Smart grid	1991
	SCADAfence	Infrastructures	Smart grid	2014
SeaNergy Electric	Seanergy Electric	Renewable energy	Generation technologies	2008
SETPOINT	Setpoint	Distributed Energy and Energy Consumption	Energy efficiency	2015
SGTech Sustainable Green Technologies	SGTech	Renewable energy	Generation technologies	2015
	Siga	Distributed Energy and Energy Consumption	Energy efficiency	2014
SiliB	Silib	Energy storage	Energy storage for EV	2009
Solargik	Solargik	Renewable Energy	Generation technologies	2021
SKY-WALLS	Sky-walls	Renewable energy	Generation technologies	2020
SOLCHIP Everlasting Solar Battery	Sol Chip	Energy storage	Behind the meter	2009
	SolarAce	Renewable energy	Generation technologies	2020

LOGO & LINK	COMPANY NAME	SECTOR	SUBSECTOR	ESTABLISHED
SolarBead	SolarBead	Renewable energy	Enabler	2009
SOLAR DRONE	Solar Drone	Renewable energy	Eneblers	2020
solaredge	SolarEdge	Renewable energy	Enabler	2006
SOLARIS HYDROBOTICS	Solaris Hydrobotics	Renewable energy	Enabler	2019
SolAround	SolAround	Renewable energy	Generation technologies	2015
	SolarWat	Renewable energy	Generation technologies	2011
solatics	Solatics	Renewable energy	Generation technologies	2014
SolCold	SolCold	Renewable energy	Generation technologies	2016
Solight	Solight	Distributed Energy and Energy Consumption	Energy efficiency	2012
SolOr	SolOr	Renewable energy	Generation technologies	2021
Soltell	Soltell Systems	Renewable energy	Enabler	2019
sologic	Sologic	Distributed Energy and Energy Consumption	Off-Grid	2008
	Solra	Renewable energy	Generation technologies	2021

LOGO & LINK	COMPANY NAME	SECTOR	SUBSECTOR	ESTABLISHED
SOWILLO	Sowillo Energy	Distributed Energy and Energy Consumption	Energy efficiency	2014
SPHERATEC Advanced Solutions Design	Spheratec Technologies	Renewable Energy	Generation technologies	2021
StandardCarbon	Standard Carbon	Energy storage	Utility Scale	2019
StoreDot	StoreDot	Storage	Energy storage for EV	2012
STORAGE DROP	Storage Drop	Energy storage	Utility Scale	2020
Structure Pal	Structure-Pal	Distributed Energy and Energy Consumption	Energy efficiency	2019
Sun'Agri	Sun'Agri	Renewable Energy	Dual use	2021
Sun Effect	Sun Effect	Renewable energy	Enabler	2011
SYNVERTEC For Better Grid Stability	Synvertec	Infrastructures	Smart grid	2014
	Tamuz Electronics	Distributed Energy and Energy Consumption	Off-Grid	1998
THERMA SPHERA	Therma Sphera	Storage	Behind the meter	2014
thermoterra	ThermoTerra	Renewable energy	Generation technologies	2015
	The Sustainable Group	Distributed Energy and Energy Consumption	Off-Grid	2017

LOGO & LINK	COMPANY NAME	SECTOR	SUBSECTOR	ESTABLISHED
TIGI	Tigi	Renewable energy	Generation technologies	2007
tomorrow.io	Tomorrow.io	Renewable energy	Eneblers	2015
tondo	Tondo	Infrastructures	Smart grid	2017
TURBOGEN	TurboGen	Renewable energy	Generation technologies	2014
vigdu Technologies	Vigdu Technologies	Renewable energy	Enabler	2012
Vintec Knowledge Ltd.	Vintec Knowledge	Distributed Energy and Energy Consumption	Energy efficiency	2002
Vollspark	Vollspark	Infrastructures	Smart grid	2016
VOLTAnano	VoltaNano	Energy storage	Behind the meter	1998
VORTEX ENERGY	Vortex Energy	Distributed Energy and Energy Consumption	Energy efficiency	2011
W.J.GABRIEL SMART BUOY	W.J. Gabriel Smart Buoy	Renewable energy	Generation technologies	2016
wevo	Wevo Energy	Infrastructures	Electric transportation	2021
WILDBERRY Energy Efficiency	Wildberry energy	Distributed Energy and Energy Consumption	Energy efficiency	2021
Xbeamer	Xbeamer	Infrastructures	Gas and oil digitization	2017

LOGO & LINK	COMPANY NAME	SECTOR	SUBSECTOR	ESTABLISHED
	YAFA Technologies	Energy storage	Behind the meter	2019
	Yam Pro Energy	Renewable energy	Generation technologies	2016
	Zero Energy Solutions	Distributed Energy and Energy Consumption	Energy efficiency	2015
	Znergy	Distributed Energy and Energy Consumption	Energy efficiency	2014
	Zohar CleanTech	Renewable energy	Generation technologies	2017
	Zooz Power	Energy Storage	Energy storage for EV	2013

[1] START-UP NATION CENTRAL

[2] IVC Data & Insights research center

[3] Capital Nature

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