



## We wish all our partners and friends a happy new year!

We are excited to announce the establishment of the Israeli "Kenya-Eilat" company "Keilot"

"Keilot Israel" established a subsidiary company named "Keilot Kenya", which will coordinate the implementation, exposure, and sales of our off-grid clean-technologies.

Roy Sagi, the company's chosen CEO, will soon relocate to Nairobi and work closely with James Milo, the local operational manager.

The companies which have entered the activity portfolio, so far, are [Home Biogas](#) with a unique product of producing cooking gas from organic waste, [NUF](#) clean water filtering systems, [Solav](#) solar water heating, [Smart Solar](#) home-scale solar power generation, and [Hilico](#) a mobile rainwater collection system.

Activity will focus on three cooperatives in the KIAMBU region, together encompassing approx. 46,000 farmers.

At the same time, we work towards establishing a development center in the Arava, which will identify additional local needs, and provide the technological solutions, at an affordable price. Companies wishing to join our activities, please contact us.

[Video about Keilot](#)



### Augwind Energy - Pilot project and demonstrating the development of an energy storage system

[Augwind Energy](#) is an Israeli tech company founded in 2012 by Dr. Or Yogev as part of the "Capital Nature" technology incubator in the Arava.

The company has developed a system for underground storage of compressed air that has been sold to leading industrial enterprises in Israel. Augwind intends to expand sales of the storage system to markets outside of Israel - first in the United States, subject to the obtainment of the relevant regulatory approvals as required.

In November, the company received a grant of 1.5 million NIS (part of an approved budget of up to during the afternoon and night 3 million NIS) from the Ministry of Energy to develop a new product.

The grant will be used to develop a system that will convert compressed air into energy. If successfully developed, the product is set to be promoted for use in the energy storage market for the electricity sector. The product will be based on Augwind's existing storage system combined with a unique technology for converting energy stored in compressed air to electrical energy at high efficiency rates. Augwind is negotiating the terms for an initial pilot in a Kibbutz community from the Arava.

The Ministry of Energy grant will also be used for a pilot run of the above-mentioned system and in which Augwind will work to store surplus electricity produced during the day for use during the afternoon and night.

Energy storage in compressed air tanks systems converts energy stored in compressed air into electrical energy using unique technology.

If successfully developed, the system may be used as an alternative to batteries and its main advantages include: Low costs compared to alternatives as well as an environmentally friendly technology that is non-polluting and uses only land as a resource.

For more information, please contact us at [To the Video](#) storage system:



### From a workshop in Ketura to a renewable energies R&D engineer

Two years ago, Michal Dekelbaum participated in Eilat-Eilat's academic course in the Arava, focusing on renewable energy technologies and policy. That experience impacted her greatly, and she knew this would be her mission in life. Michal participated in the workshop as part of her master's degree in mechanical engineering specializing in renewable energy and environmental engineering at the Tel Aviv University. She says that she underwent an amazing experience. Spending time in the desert, participating in activities and learning with people who share the same fields of interest, gave her a wider perspective about sustainable energy and that touched her heart. "At the university you study technologies, but at the workshop, you deal with a variety of aspects: economy, regulation, problems and solutions from around the world, future planning, and more. We experienced interesting exercises which made us use our head and think of matters in a deeper manner. It is good to see things with our own eyes and feel them, and not just study them in theory". She left the workshop with a strong emotional connection to the field of renewable energy and understood this is what she wants to do professionally in her life. At the end of her studies, Michal began working at Augwind and entered an exciting position of R&D engineer at the compressed air energy storage project.

Today, two years later, she returns to the Arava, this time for the pilot of storing energy by compressed air.

Every year, Eilat Eilat Renewable Energy Initiative holds academic workshops in cooperation with the leading academic institutions in Israel. For more information:

[workshops in the Arava](#)



### Strategic plan for 100% green power in Eilat Eilat

The Ministry of Energy has approved significant financial support to Eilat and Eilat Region for writing a technological, economic, and business plan for establishing and managing the Eilat and the Arava region as an independent "micro-grid" system, supplying 100% green power to the region. The plan will include the region's existing renewable energy infrastructure that has already been built, the existing IEC infrastructure, and the additions needed to reach the target. The municipalities of Eilat and Eilat Region, supported by the funds from the ministry of energy, will fund the writing of a significant plan, presenting the environmental, economic, and social advantages to the area and to the entire country. We will soon issue a bid for consultation firms, you are invited to follow our publications.

This is an opportunity to recognize the importance of the government's investment in groundbreaking innovation by the Public Private Partnership Unit (PPPU) model. This is the way the government can profit for the benefit of its citizens. The government's role is not only to solve market failures but also help shape a better future!

For a TED talk: Government - investor, risk-taker, innovator:

[TED talk](#)