

Augwind reports completion of the installation and successful operation of an AirBattery system at Kibbutz Yahel

**The system was operated in a full charge and discharge cycle through
to electricity generation**

Dr. Or Yogev, CEO and Founder of Augwind, said: “This is the first time since its installation that the AirBattery system at Kibbutz Yahel has been tested end-to-end and successfully operated in a full charge and discharge cycle through to generation of electricity. The test displayed excellent results in line with our expectations for this phase.”

“The successful operation of the system at Yahel is an important milestone en route to launching the system in the global market.”

For a video clip on the Yahel project, click [here](#).

Israel, Yakum, 23rd September 2021 (TASE: AUGN) Augwind today announced that it has completed the work for installation of the AirBattery system and has performed a successful test run of all its components in readiness for its full operation.

This successful test run follows on from completion of AirBattery system installation at Kibbutz Yahel in the Arava desert. The system has a storage capacity of approx. 1,000 kWh. As part of the test run, all system components were activated successfully, a number of charge and discharge cycles were performed, culminating in electricity generation. The system is charged by using water pumps to compress the air in the underground storage tanks developed by the Company (Air X), while the compressed air is discharged into the water turbines that generate electricity.

Under the test run processes, comprehensive tests of the system’s discharge process were run, including tests in combination with the charge process through a number of

usage cycles, following the testing of the charge process components. The results achieved to date match the company's expectations for testing at this phase.

According to the company, the test run phase ahead of full system operation is expected to be completed by the end of the year.

The system was installed under a partnership agreement between the Company and a cooperative society from Kibbutz Yahel and a partnership between the Kibbutz and the Doral Group whereby, following its full operation, the intention of the parties is to connect the system to supply electricity for self-consumption ("behind the meter") for a number of end consumers within the Kibbutz.

Dr. Yogev further added, "This is the first time since the feasibility study at Yakum that the AirBattery system is being tested on a commercial scale of 1 MW per hour with manifold success. This is a significant and strategic milestone for Augwind in its technological proof of concept ahead of the construction of high-voltage commercial projects in the future."

"Augwind's AirBattery system is the first storage system of its kind in the world, which is based on air and water as raw materials in a closed and modular system configuration that utilizes pumps and turbines for high-efficiency energy storage and generation. The system we have developed is positioned to provide an optimal response to the roadmap of the renewable energy market, and to enable energy storage in a safe, efficient and economical way, in diverse capacities and for extended periods of time in a variety of applications, in order to facilitate the widespread implementation of renewable energy systems for electricity generation around world."

"Augwind's AirBattery system is the first system of its kind which renews itself via the cyclical flow of water between the air compression tanks as part of the charge and discharge process, making it suitable for operation in extreme climatic conditions such as deserts or particularly hot regions, where it is inadvisable – and indeed sometimes impossible – to use lithium batteries, given their sensitivity to heat."

"As the [linked video clip](#) describing the Yahel project shows, the system footprint is minimal and comprises very few components, while most of the system's volume is embedded underground. Storage volume and output may be increased by adding



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underground tanks and without needing to add surface components taking up ground area, thus effectively saving valuable space and enabling dual use of land for industrial and/or agricultural purposes or for integration with solar and other power generation facilities.”

“AirBattery’s system architecture supports globally-accepted Environmental, Social and Governance (ESG) requirements, since it is based on common, clean, safe and available raw materials that do not require the mining of metals or scarce minerals. The system uses air, water and land for the purpose of energy storage and energy generation. It is also based on local labor and raw materials available in the vicinity of the installations, thus contributing to local economies through job creation and support of local supply chains.

Click [here](#) to visit Augwind's website.

About Augwind:

Augwind was founded in November 2012 by Dr. Or Yogev. The company specializes in the development and installation of compressed air storage systems to increase energy efficiency (AirSmart) with the goal of storing energy for the electricity sector and, among other things, doing so from renewable energy electricity generation sources such as PV or wind, including the storage system developed by Augwind (AirBattery).

Augwind operates on two fronts: the energy storage market and the air compressor market. It operates in both using an underground air compression technology that enables savings of up to 40% in the energy consumption required to compress the air at high pressure.

The company’s customers include, among others, global company PepsiCo, Tnuva, Strauss, Iscar, Yotvata, Rapac, IAI, Nesher Cement Industries, Plastic Industries, NILIT, Keter Plastic, Elidan Plastics, and Shalam Packaging Group.