

Company Presentation



AUGWIND

THE *GREEN* SOLUTION TO ENERGY STORAGE IS RIGHT UNDER OUR FEET

2020

Legal Disclaimer



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About Us

Established in **2012**

AUGWIND specializes in underground compressed air energy storage based on our patented **AirX** technology

AUGWIND **AirX** technology is utilized for two primary applications:

- Energy Efficiency (**AirSmart**) - Commercial
- Energy Storage (**AirBattery**) - Advanced stage
- Publicly traded company on the Tel Aviv Stock Exchange (AUGN)
- The company has 10 registered patents and 5 patent applications, all in the energy field
- Revenue:
 - 2017 – **NIS 693,000**
 - 2018 – **NIS 3,138,000**
 - 2019 – **NIS 6,887,000**



**Talent wins games, but teamwork
and intelligence win championships**



Vision

To be a global leader in the field of energy storage technology and energy efficiency

Committed to make a positive **impact** on the environment



Our Core Values

What drives our work every day



PROFESSIONALISM

Our team is comprised of international experts in the fields of physics, mathematics, mechanical and electrical engineering, and instrumentation. The company leadership have extensive experience managing international companies.



INNOVATION

Innovation is a cornerstone of the company's founding and purpose, the company's employees and leadership are at the forefront of today's leading technologies.



PERSISTENCE

We work intensively and resiliently to break barriers and develop new technologies that will transform the field of energy storage into a green and sustainable industry.

Our Energy Solutions

AUGWIND developed two leading products, both utilizing AirX technology for underground compressed air storage at a pressure of up to 40 atm.:



AirBattery

Modular and scalable compressed air energy storage system, using only water and air, to provide a cost-effective solution for renewable energy dispatchment to medium-sized solar and wind farms (advanced stage).



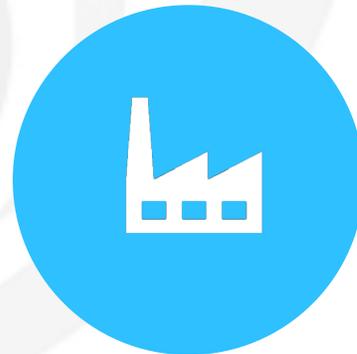
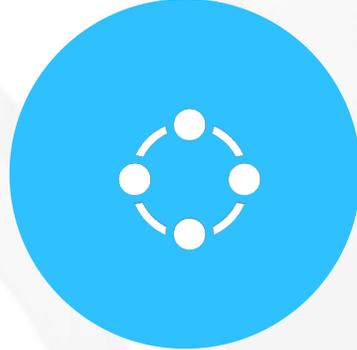
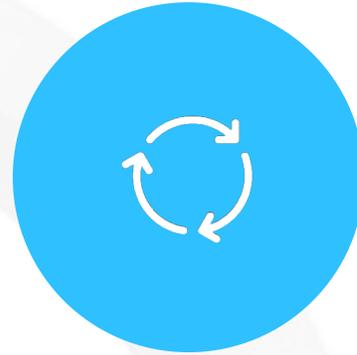
AirSmart

A unique energy efficiency solution for air compressors using underground air storage, operated by AUGWIND's unique control system, supported by our dedicated simulator.



AirSmart

Understanding Compressed Air



What is compressed air?

Compressed air is air that is stored at immensely high pressure (up 40 atm.) which is used in industrial plants, from opening and closing valves, to inflating bottles, to pneumatic conveying.

How does it work?

The compressed air is produced by a compressor, powered by either electricity, fuel, or gas. Normally, the compressor efficiency is low.

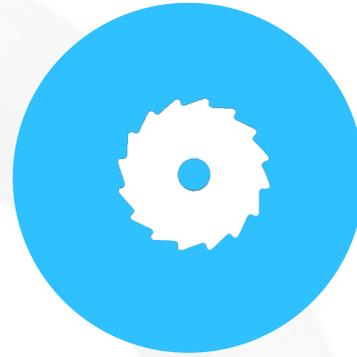
Who uses it?

In almost every factory there is compressed air used for a variety of operations, responsible for up to 20% of the total energy consumption.



AirSmart

Understanding Compressed Air



What does AirSmart provide?

The AirSmart system optimizes the energy of the air compressors, **saving up to 40% in power consumption** while reducing operating costs.



What is the target market?

The combination of high electricity tariffs and large industrial parks, ranging from the plastics industry, to food and metal industries create an ideal target market.



How is it profitable?

Either through a capital expense model (Capex) or a operational savings distribution model (Opex).



AirSmart



Reduce Operational Costs

Save up to 40% in power consumption while significantly improving production continuity



Production Continuity

A huge amount of air supply backup



Peak Shavings

Shave the energy peak of a plant by using the air storage



Certification

International food standard certification (NSF)



Environment

Reduce carbon footprint



Save Space

Underground installation helps you save valuable space



Mechanical Longevity

The motor runs on the best efficiency curve, improving the MTBF significantly



Quick Implementation

Fast installation, 7 days only

Market Opportunity

Our plan to enter the global market.

Industrial Air Compressor Market revenue to surpass \$24 billion by 2026

Global Market Insights
Market Intelligence



RESEARCH

The market volume for AirSmart in Israel is estimated at \$100 million with an annual growth of 3%, while the global volume is estimated to be billions of dollars.



STRATEGY

The company has identified two target markets outside of Israel: the **U.S.** and **Germany**. Our focus there is large industrial parks in localities with **high electricity costs**.



TACTICS

The company will be the **technology provider** and will operate contractors worldwide (EPC).

Clients

5 ANNUAL ENERGY SAVINGS
MILLION kWh

Plastic Industries

NILIT[®]

KETER

אלידן פלסטיקה בע"מ
ייצור בקבוקים פלסטיים מדוייקים



Shalam Packaging Group

Big Industries

Member IMC Group
ISRAF

Rapac
Communication & Infrastructure Ltd.



נשר מפעלי מלט ישראליים בע"מ
NESHER ISRAEL CEMENT ENTERPRISES LTD.

Food Industries



PEPSICO



תנובה



AirSmart Process

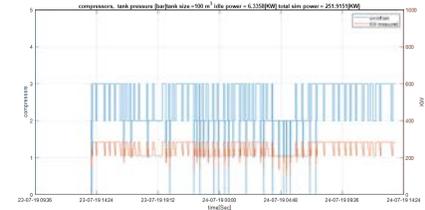
Bringing AirSmart to your business

PRELIMINARY ANALYSIS



01

DATA COLLECTION & SIMULATION



02

PROPOSAL & CONTRACT



03

04



IMPLEMENTATION





AirBattery

Using Air as Energy



Background: Renewable Energy

In recent years, there has been a significant increase in energy production from wind, solar, and water to replace pollutant energy sources such as coal, oil, and gas.



The Problem

Renewable energy sources are often unstable and fail to provide a continuous and stable power supply throughout the day. It is impossible to use the sun (solar energy) in the afternoon in order to turn on the light at home in the evening.



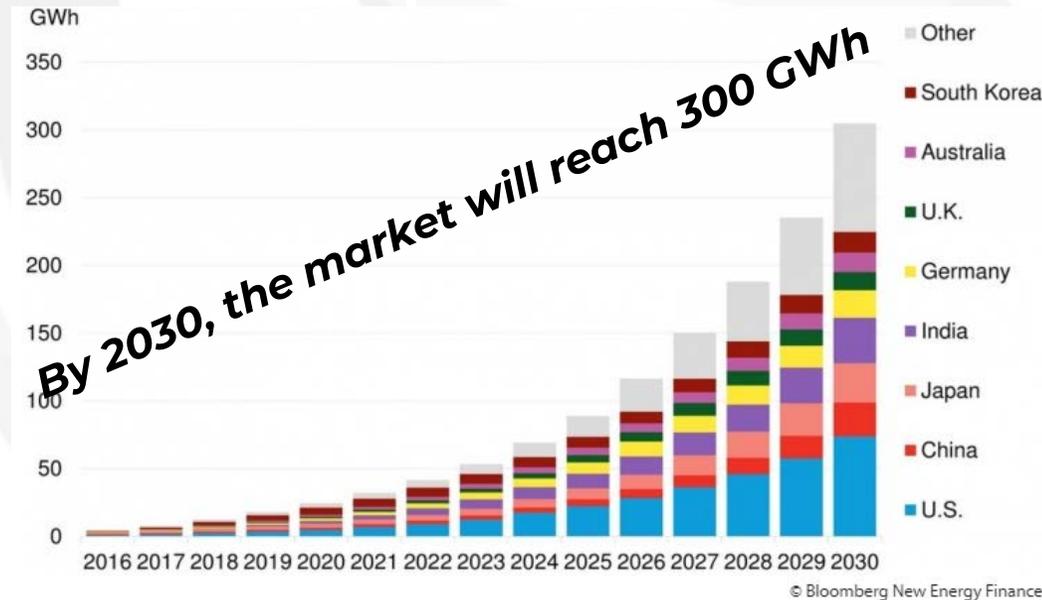
The Solution: Energy Storage

Using compressed air for energy storage is incredibly efficient. The company's assessment is that in the coming years energy production from renewable sources will be regulated to include energy storage technology.

Market Growth

Renewable energy and energy storage

Energy Storage / Expected Growth**



Global Solar Energy Market Size, 2018-2025*



* Source: Bloomberg New Energy Finance, Nov. 2017

**Source: Global Market Insights Market Research and strategy consulting firm, July, 2020

Market Growth

Global Renewable Energy Market is expected to reach \$1,512.3 Billion by 2025



Global Renewable Energy Market
OPPORTUNITIES AND FORECASTS,
2018-2025

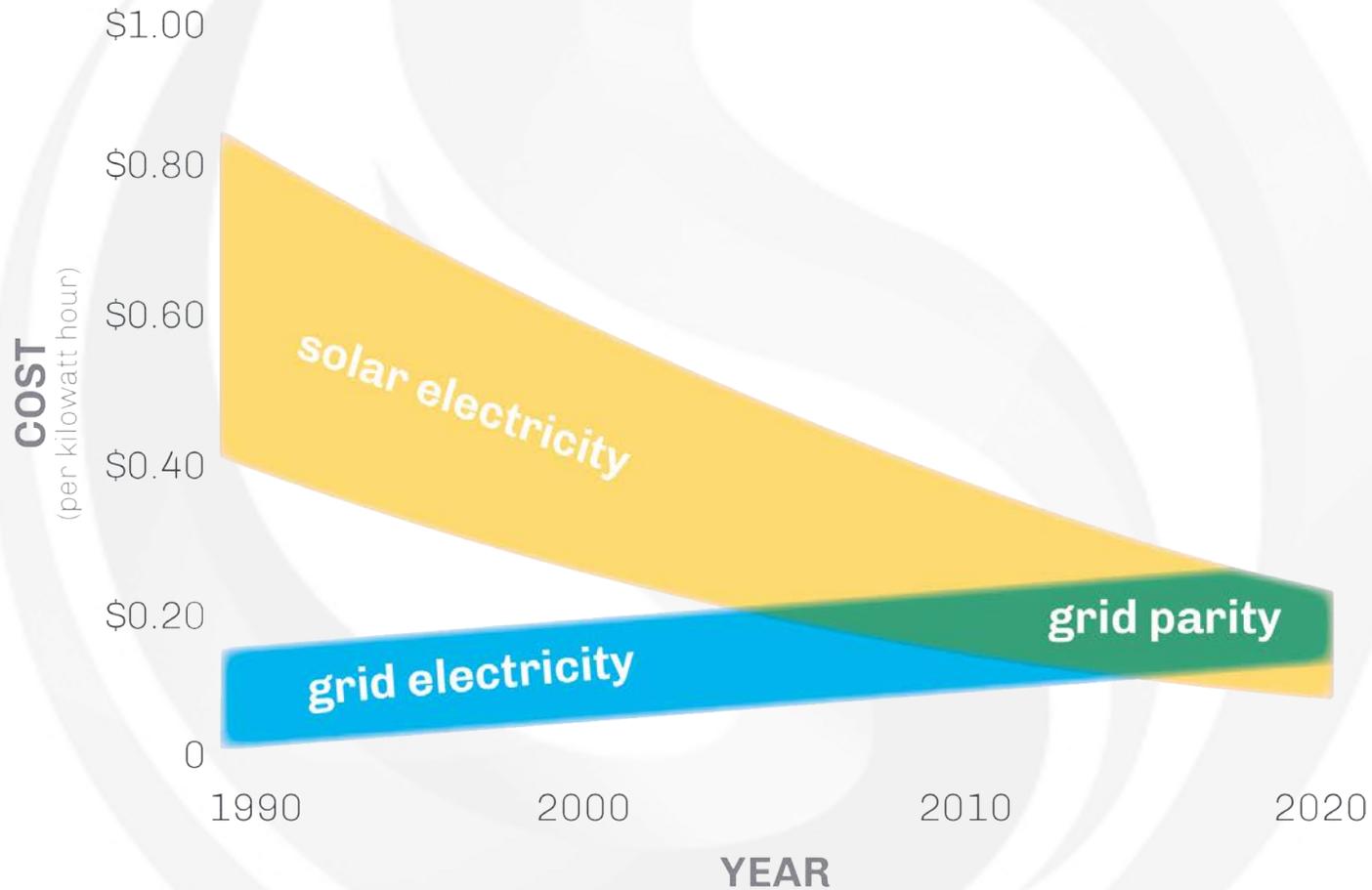
Global Renewable Energy Market is expected to reach **\$1,512.3 Billion** by 2025.

Growing at a **CAGR of 6.1%** (2018-2025)

© Allied Market Research

*Allied market research, 2017

Grid Parity



You can see in the graph that solar power generation was much more expensive than conventional power generation (coal, natural gas), a gap that is disappearing and contributing to significant growth in renewable energy.

Source: SunPower by green Convergence, Cost in constant 2005 U.S Dollars

Published at SHAREAMERICA, the U.S Department of state's platform for communicating foreign policy worldwide

Energy Storage

By Sector

Lithium Ion Batteries

SAMSUNG



TESLA

NEXTERA
ENERGY

Most popular technology

Degradable / hazardous material

PHS Pumped Hydro Storage

ELECTRA

Stantec



CGGC

High efficiency /
well-known technology

High capex / limited location

FESS Flywheel Energy Storage System

energiestro

VYCON
Expect More

AMBER
KINETICS

High efficiency / low maintenance

Low capacity / short cycles

CAES Compressed Air Energy Storage

AUGWIND

HYDROSTOR

Highview
Power®

alacaes

Green / low maintenance

High capex / limited location

Compressed Air Energy Storage Technology

CAES
Compressed Air Energy Storage

 | **HYDROSTOR**

 **Highview Power**  **alacaes**

Green / low price per kWh /
reliable operation

Major investment /
geographical restrictions /
not modular

CAES
Compressed Air Energy Storage



AUGWIND

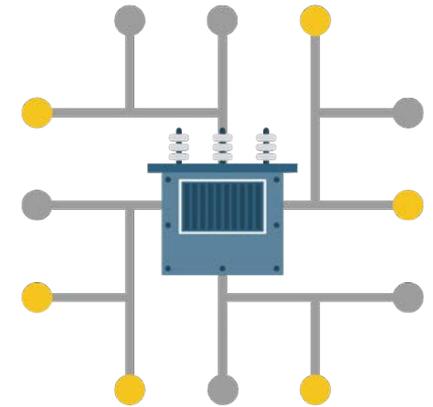
Green / low price per kWh /
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Small investment / not
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modular

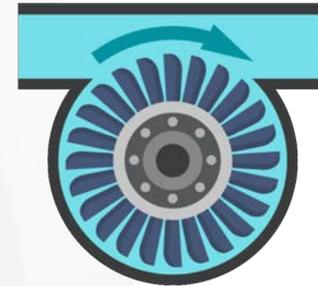
AirBattery Process



Trade Secret



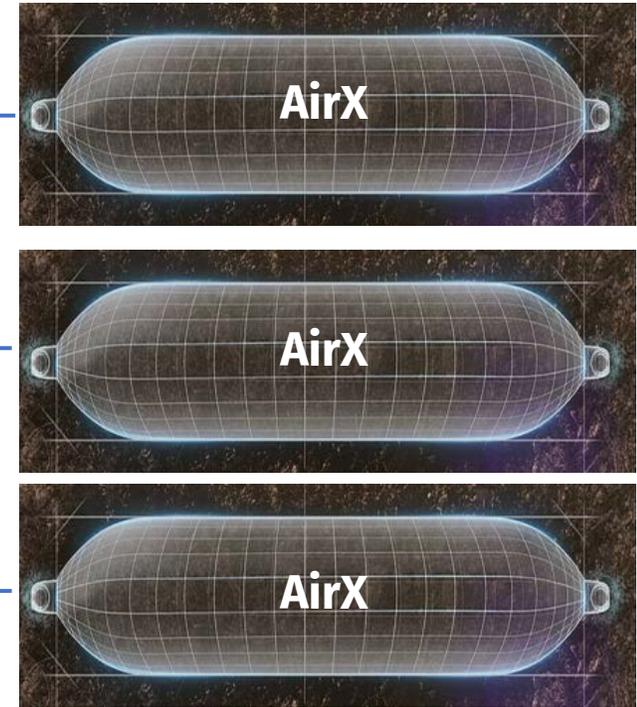
Trade Secret



Electrical Discharge



Compression System
Isothermal Piston



Photovoltaic Power Generation System



Electricity Charging



Water Pump



AirBattery

AUGWIND's AirBattery, powered by Air and Water



**OVER
80%**

Energy Efficiency

Be more effective and efficient with your energy



Endless Cycles

Operational sustainability with zero degradation



Scalable

Modular and scalable storage, volume can easily be increased



Safety

Free of toxic and flammable chemicals



Competitive Price

Attractive price per kWh



Environment

Using only air and water



Zero Footprint

An underground system that allows for installation even in places where space is limited



AirBattery

AirBattery is AUGWIND's a unique energy storage solution in its beta phase, driven by AirX technology intended primarily for medium-sized solar and wind farms.



AirBattery

80%
ENERGY
EFFICIENCY
RATIO



Groundbreaking Technology

The first of its kind, modular and scalable compressed air energy storage



Completely Green and Safe

Using renewable energy, just water and air



Cost-Effective

Target goal: 80% energy efficiency



FY 2020



First Project

The company signed an agreement with Dorel Energy (photovoltaic company) and Kibbutz Yahel (energy consumer) to install a pilot storage facility with a capacity of 1,000 kWh.



Pilot Demo Facility

The company will finish to build our first mini-pilot AirBattery at our Yakum headquarters.



Thank You

 AUGWIND