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AUGWIND

Update report 14 December 2020

Stock Exchange: TASE

Symbol: AUGN

Sector: Technology

Sub-sector: Cleantech

Stock Price Target: NIS 121.3

Closing Price: NIS 104.2 Market Cap: B NIS 2.0 # of Shares: M 19.5 Average Daily Trading Volume (3M): 5,589 3M Return: 16% **Summary and conclusions**

Augwind is a growth company and thus has three main milestones in its life-cycle: Proof of Concept (POC); Regulatory or technological transition that demonstrates the technology effectiveness; and the last milestone is business transition.

Augwind's announcement on reaching about 80% efficiency, depending on the project, constitutes the successful transition of the company through the 2nd milestone in the path of each growth company. Hence, this is a very significant announcement. At the same time, in coming years, the company must demonstrate its' marketing and sales abilities to markets outside of Israel; so that its' technology will receive even greater international confirmation. Specifically, the company needs to demonstrate market penetration capabilities primarily with AirBattery whose revenue is very significant in our valuation. AirBattery commercialization is due in 2021. We will review the company's progress every quarter and update our estimation based on the pace of projects sales.

We'd like to remind that Augwind developed an energy storage solution based on compressed air storage (the AirBattery) that will be commercially available in 2021 and aims to provide an answer to the exponentially expanding renewable energy storage market. The Company's energy efficiency solution (the AirSmart), which is utilized by major entities such as Siemens and PepsiCo, aims to save factories substantial electricity costs and is based on the same compressed air storage core technology.

Strategically, Augwind is a technology provider and not an execution company. This allows it to utilize its advantages in a fast and scalable manner. This model will allow the company to operate a relatively flexible and lean operation. Financially, Augwind raised NIS 165 million in private placement (July 2020), thus we assume this can support any activities in the near future.

Increased investment in energy storage is an international phenomenon, and countries including China, the US, Germany, and Israel all have detailed plans to increase their energy storage portfolios.

Main announcements of the company in the past quarter up to the date of publication of this report:

- Meeting the objectives of testing the technological feasibility stage and evaluating the efficiency of the AirBattery system, with a predetermined energy efficiency rate of 80% (similar to existing solutions on the market).
- Obtaining the approval of the Chief Scientist on behalf of the Ministry of Energy, to classify a facility
 using AirBattery technology (for storing electricity) as entitled to 40 megawatts per hour "Halutz"
 (pilot) quota, consisting of two storage stations on a commercial scale. Namely, recognition of the
 importance of technology.
- Signed a MoU with Mei-Ram regarding the promotion of the construction of energy facilities for the electricity sector.
- Signed a MoU with Solegreen to implement the company's storage system.

Characteristics of selected energy storage systems:

	Max. Power rating (MW)	Discharge time	Max cycles or lifetime	Energy density (Watt- hour per litre)	Efficiency
Compressed Air	1,000	2h – 30h	20 – 40 years	2 – 6	40 – 70%
Pumped Hydro	3,000	4h – 16h	30 – 60 years	0.2 – 2	70 – 85%
Molten Salt (Thermal)	150	Hours	30 years	70 – 210	80 – 90%
Li-lon battery	100	1min – 8h	1000 – 10,000	200 – 400	85 – 95%

The above technological confirmation, along with the company's recent strategic activity, confirms our previous valuation. Therefore, we maintain in our valuation of Augwind at a value of NIS 2.3 billion; we estimate Augwind's price target to be at the range of NIS 104.3 to 144.1 NIS with a mean of NIS 121.3. We will update Augwind value based on its quarterly progress. We present our P&L forecast for 2020-2023 below:

NIS	2020E	2021E	2022E	2023E
Total revenues	5,700,000	62,585,000	346,550,000	546,640,000
Operating (loss) profit	-3,934,500	2,060,150	81,464,500	148,887,100

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Executive Summary

Ten years ago, the lion's share of our electricity came from non-renewable energy sources such as coal, while renewable energy sources, such as solar and wind energy, accounted for a negligible 1-2% of electricity in most developed energy ecosystems. Carbon emissions from electricity generation were predicted to rise for decades to come, but surprisingly, between 2010 and 2020, coal-based energy significantly decreased, while natural gas and solar power began significantly increased.

The changes of the past decade will likely be dwarfed by those we expect to see in the coming decade. Because renewable energy sources depend are inherently intermittent, such as daylight and wind currents, they require supporting solutions to provide a consistent, stable flow of energy. The exponential adoption of renewables is propelling many countries to implement supporting solutions, such as energy storage and electricity grid management systems, as enablers of renewable energy adoption.

Just 3 weeks ago (August 25, 2020) at the US Energy Storage Association's (ESA) annual conference, the US Department of Energy (DOE) deputy secretary Mark Menezes stated that energy storage is "the next great chapter in a story of American energy innovation." He further mentioned that the DOE is investing heavily in storage R&D in order to provide energy flexibility and reliability. Furthermore, the US Office of Electricity (OE) explicitly mentions energy storage as one of its four main priorities² and details its goal to "work with other DOE Offices to investigate and integrate new technologies for advancing megawatt scale storage with added resiliency and control capabilities."

Increased investment in energy storage is an international phenomenon, and countries including China, Korea, the US, Germany, France, Italy, the UK, Australia, Japan, India and Israel all have detailed plans to increase their energy storage portfolios. The ESA recently extended its vision to a goal of 100 GW of new energy storage installed by 2030³, and Israel's Ministry of Energy has outlined a tenfold increase in storage capacity over the same period.

Renewable energy sources are fuelling the need for energy storage capacity, and stored energy brings with it a whole slew of advantages that can be effectively utilized by a variety of factories and production facilities. For example, the use of compressed air energy storage technology (CAES) allows for substantially reduced energy costs by storing electricity when it is cheap and allowing factory machinery to utilize that energy during peak load times.

Augwind is a CAES technology provider that has developed solutions to support both renewable energy storage infrastructure and production facilities. They enable the deployment of large scale and grid-scale CAES to store energy for later use using compressed air. Their technology is primed for adoption as it is cost effective, highly scalable, completely green, and can easily be incorporated into existing facilities. Their solution for energy storage is called the AirBattery and their solution for production facilities is called AirSmart.

We view Augwind as a great opportunity for investors seeking to invest in clean-tech and specifically within one of the most growing elements in clean-tech – energy storage.

https://energystorage.org/wp/wp-content/uploads/2019/06/esa vision 2025 final.pdf

¹ https://essentialenergyeveryday.com/energy-storage-will-fundamentally-change-the-energy-landscape/

² https://www.energy.gov/oe/mission/oe-priorities

Company Overview

Augwind Ltd. (TLV: AUGN), hereafter "the Company" and/or "Augwind," is a publicly-traded Israeli company with the vision of becoming a leading and cutting-edge global technology provider in the energy storage and energy efficiency domains. The Company is revolutionizing energy storage by providing technology for storing compressed air underground. The company's revenue for 2017, 2018, and 2019 respectively was 693K NIS, 3.14M NIS, and 6.89M NIS. The company operates out of its HQ in Yakum, Israel.

In recent years there has been a significant increase in the volume of energy production from wind, solar, and water sources to replace pollutant sources such as coal, petroleum, and gas. The shortfall of this approach is that renewable energy sources are unstable and do not allow continuous power supply throughout the day. For example, we are unable to utilize the sun at noon to power factories at hours when there is no sun out. The solution to this problem is highly efficient and cost effective energy storage. The energy storage market for renewable energy sources is projected to grow exponentially. It is also expected that in the next few years, regulators will begin to require energy storage solutions for renewable energy sources.

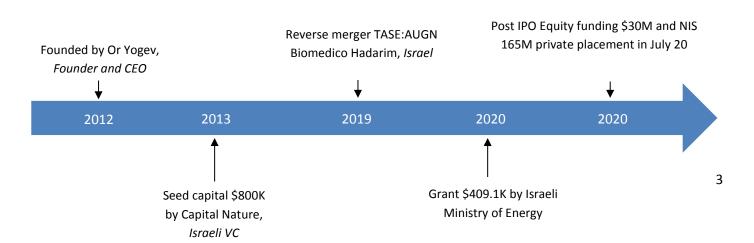
Today, almost every factory uses compressed air to power its machines, but compressed air systems are one of the most inefficient systems in the industry, and constitute 15% of overall factory energy consumption on the average (up to 20%; source: US Department of Energy).

Augwind's two flagship technology solutions solve both the energy efficiency and energy storage problems above. Their commercially available solution, AirSmart, stores energy and powers machinery that operates on compressed air. It allows for up to 45% savings in electricity consumption (source: Augwind) while reducing operating costs. The company states that this compressed air can be specifically designed to meet different factory air consumption patterns, meaning it can first stabilize the production profile of the factory's compressors array to a stable state, optimizing significantly their electricity consumption compared to a non-stable state. Secondly, by adding a large vessel of compressed air, energy can be stored in the form of compressed air while it is cheap, and used during peak demand times. The company has designed and installed its patented compressed-air storage units for large industrial plants all across Israel, including tier-1 factories from the dairy, food, and plastic industries such as: Strauss, Tnuva, Nesher Cement, Israel Aeronautics Industry (IAI), Shalam Packaging and more.

Their solution under development, the AirBattery (commercially available by mid-2021), stores electrical power generated by any source (Renewable and non-renewable) and dispatch iton-demand also by form of electrical power. The AirBattery solution has obvious advantages over current energy storage solutions, such as batteries since it has no degradation, unlimited cycles and it is 100% green technology utilizing air and water.

Strategy and Business Model

Augwind was founded by Dr. Or Yogev in 2012. In 2019, the company performed a reverse merger with the public company 'Biomedico Hadarim' on the Tel Aviv Stock Exchange. Biomedico Hadarim was later renamed Augwind Energy.





Compressed air is required for many applications in the industrial sector, and operating electrical costs for a single compressor are often exorbitant, running into thousands of dollars annually. Usually the demand for compressed air is not constant, but periodic, and compressed air is produced accordingly. Thus the load on the air compressors can vary, leading to wasted energy. This challenge of waste can be mitigated by using a large energy storage tank that can act as a buffer and stabilise the system thereby reducing energy waste. The compressed air energy storage solution developed by Augwind is at least 80% more cost-effective than the current alternative. This solution has resulted in 45% reductions in energy costs at industrial plants where it is currently installed, thereby recovering the cost of investment in just 2-3 years.

Due to these factors the company's AirSmart solution targets industries with two characteristics: 1) those that incur high electricity prices and 2) those with large players, such as plastics, foods, metals, etc. Today the company is targeting large industrial parks in the US, Germany, and Israel. In March, Augwind's AirSmart met the standard demands of the National Sanitation Foundation (NSF) and were officially approved by the NSF.

Upon commercial availability in 2021, the company's AirBattery solution will target renewable energy producers and plants, from small-scale, private producers to large-scale producers.

In terms of its business model, Augwind acts as a technology provider and will operate internationally via sales and execution contractors (EPC) that license the company's technology. For each installation, Augwind designs customized plans for the size and placement of its units to best meet the demands of its clients. Afterward, project management and installation is carried out by the EPCs.

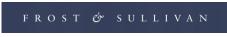
The Company delivers its products both in a CAPEX package and in an OPEX savings distribution model. The OPEX model allows both the client and Augwind to share the savings generated via their technology. Additional revenue is produced through annual maintenance of the company's solution.

With significant support from the Chief Scientist of Israel and the European Union, Augwind has taken major steps to patent and develop their technologies. Augwind has 10 approved patents and 5 pending patents, all in the energy domain.

Products and Technology

Industries require a large amount of compressed air to keep their machinery running. With a variety of applications from plastic manufacturing to chemical refinement, compressors supply machines with the air pressure they need to work. However, air consumption varies between machines and across tasks, thus limiting the efficiency of standardized compressed air systems. Augwind's patented compressed air storage units are installed underground. By mediating between the compressor and the machinery, Augwind's units can reduce compressors' power consumption costs by up to 45%.

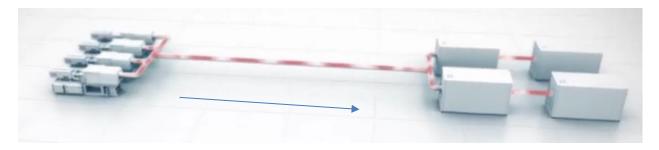
Rather than providing the machinery with compressed air directly, the compressors supply Augwind's storage units. Augwind's system mediates between the compressors and the machines by intelligently and efficiently storing and supplying compressed air. With Augwind's units, the compressors only refill the storage tank when necessary, keeping the minimum number of compressors operating at any given moment. Augwind's units provide a smoother, more controlled stream of air pressure to precisely meet each machine's demands. Augwind's specialized, flexible compressed air storage units are designed to harness the geo-mechanical power of the earth itself to contain the



immense pressure that comes with storing large amounts of compressed air, at a fraction of the cost and with no visible footprint.

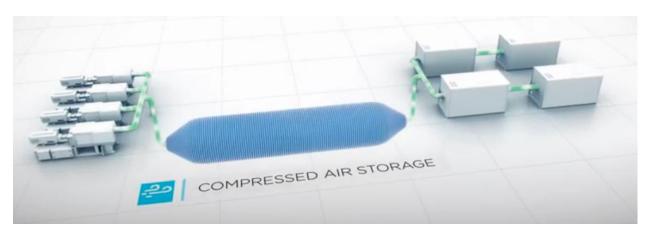
In the US and most of Europe, electricity costs are higher during peak consumption times. Factories often face large fines for operating during peak hours. With Augwind's system, storage units can be filled or charged with compressed air during off-peak hours, or at low air consumption times. The stored compressed air can then be utilized when costs are high, eliminating the need for operating the compressors during peak hours.

How compressed air is utilized today:



Air compressors directly supply machines on demand using minimum storage units in between, mainly in order to protect the compressors from frequent shutdown. This is a highly inefficient and costly methodology.

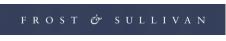
How compressed air is utilized with Augwind's system:



The Company leverages its unique AirX technology that stores large amount of compressed air at up to 40 atmospheres of pressure. This technological platform has several applications. Their commercially available solution, AirSmart, stores energy for small time periods and powers pneumatic equipment that operates using compressed air. The airSmart can be attribute as a buffered system that enable the compressors to operates much more efficiently. Alternatively, the AirBattery solution provide means to store electrical power by converting it to compressed air, store it for long time periods inside AirX tanks and then converting it back to electrical power when required.

1) **AirSmart**: a commercially available energy efficiency solution for air compressors, combining underground energy storage along with a unique monitoring system, supported by a dedicated simulator.

Augwind's patented AirSmart solution allows for the storage of a vast quantity of compressed air, specifically designed to meet factory air consumption patterns. This reduces the inherent inefficiencies of compressed air systems and improves both economic and ecological outcomes.



Augwind's solution has saved up to 45% of power consumption to the air delivery system for current clients. In addition Augwind's solution managed to save air consumption by enabling more efficient use to compressed air by the air consumers

Augwind's units have managed to save millions of dollars of wasted energy by improving the efficiency of compressed air systems in addition to providing significant operational benefits, including pressure stabilization, improved air quality, and emergency backup compressed air storage.

The benefits of the AirSmart solution include:

- Energy Savings: electricity consumption is reduced by allowing compressors to work more efficiently
- Cleaner Compressed Air: equipment is supplied with cleaner and dryer more stable and more precise air supply
- Compressor Longevity: compressors work more efficiently, thereby extending their lifespan
- **Production Continuity:** in case of a power outage Augwind's compressors can supply machinery with energy until compressors are brought back online
- Peak Shaving: Augwind's AirShaver system which consist of high pressure large volumes AirX tanks are filled
 with high pressure air off peak times. During high peak times air is released from the AirShaver system hence
 curtailing peak power consumption. This peak shave operation save electrical cost due to high peak power
 consumption times.
- Quick Implementation: installation takes several weeks at the most, depending to the size of the system
- No footprint: the system is installed underground and does not take up expensive real-estate
- **Environmentally friendly**: the carbon footprint is reduced
- NSF compliant: the technology is National Sanitation Foundation (NSF) compliant

Major AirSmart customers include:



2) **AirBattery**: In recent years, there has been a significant increase in the volume of energy production from wind, solar, and water sources to replace pollutant sources such as coal, petroleum, and gas. The problem is that renewable energy sources are characteristically unstable, and do not provide a continuous power supply throughout the day and across the seasons. You cannot use the midday sun to turn on the lights at night-time. The solution is energy storage. It is expected that in the next few years, regulators will require energy storage solutions for



renewable energy sources. This market is projected to increase exponentially. Augwind's AirBattery solution is completely green and targets a high cost benefit of over 80% energy round trip efficiency.

AirBattery is a modular energy storage solution in advanced development stages intended for medium-sized solar and wind energy installations. Augwind has developed innovative underground compressed air storage units that store large amounts of compressed air at high pressure. The most significant challenge renewable power generation deployment is dispatching it using energy storage. Today, a significant amount of electricity is either curtailed or not utilized, solely because it is easier to utilize it directly during peak hours than to store it for later use.

This solution is intended for the energy storage market, and in particular, for the electrical utility sector. The development of this system is based on Augwind's existing compressed air storage system, combined with a unique technology for converting the energy stored in compressed air back into electricity at high efficiency.

Augwind's energy storage system is designed for medium-sized and large scales, and will effectively compete existing energy storage systems in the market, given its low costs, high efficiency, unlimited cycles and zero degradation. When completed successfully, the system will serve as an alternative to batteries and other means of energy storage that are currently on the market but suffers drastically from may drawbacks. When completed, this solution will provide optimal storage volume for solar farms, wind farms and power grid, at much lower prices, with little need for maintenance and minimal environmental impacts.

Integrating renewable energy sources with efficient storage systems will increase their reliability and reduce dependence on fossil pollutant power plants. s

The benefits of the AirBattery solution include:

- **High conversion rate:** over 80% energy efficiency
- Cost effective: the solution aims to be highly cost competitive
- Endless charging cycles: the system has more than 40-year lifespan, during which it can be charged repeatedly with no limits
- High capacity: the system contains high pressure by utilizing the earth's geo-mechanical forces
- No footprint: the system is installed underground and does not take up expensive real-estate
- Environmentally friendly: the carbon footprint is reduced
- Expandable and modular: the technology can be scaled for increased capacity
- Green and cutting-edge: the first 100% green energy storage solution (uses only water and compressed air)

AirBattery Pilot

In order to prove the feasibility of the AirBattery, Augwind set up a pilot in Kibbutz Yahel, along with the PV and wind energy infrastructure company Doral. Augwind received a grant of 1.5M NIS from the Israeli Ministry of Energy, based on an estimated total cost of 3M NIS. The pilot is expected to be completed in the coming months and will demonstrate the ability of the AirBattery to store 1000 kilowatt hours at 250KW power rating. Upon this successful PoC, the AirBattery will be commercially available in 2021.



Valuation

Company valuation

Augwind revenues are mainly based on products and services with two main <u>direct</u> business models:

- a) Capex sale the company sells the system and provide on-going maintain fees.
- b) Opex sale the company gain revenues if electrify savings are obtain.

Augwind has also focused recently its business model (for AirSmart) via distributers, such as SuperGas in Israel, where it uses the distributer's capabilities in sales and marketing with local presence that can add Augwind solution into other services. We see this updated business model as an optimal model for Augwind as it positioning Augwind as a technology firm, focusing on technology rather than an infrastructure firm sells end-to-end products.

We analyse Augwind activities based on three products serving different customers as we described above:

- AirSmart include 3 airX units on avg.
- AirShaver include 4 high pressure AirX units.
- AirBattery 40mWHr typical include 200 airX units.

We then analyze these three products based on the location of sales (US, EU and Israel); and by revenues and gross profit per product per location per business model. Our assumptions are based on our understanding of the market, its trends and also management estimations.

As of 31/12/20 the company will recognize its backlog of NIS 5.1 million from on-going projects. In 2017 the company revenues were NIS 693k; 2018 were NIS 3.1 million and in 2019 NIS 6.9 million.⁴

Below is our P&L forecast for 2020 - 2025 (NIS):

	2020	2021	2022	2023	2024	2025
Revenues						
AirSmart - include 3 airX units on avg	5,700,000	16,350,000	62,700,000	117,750,000	141,300,000	173,475,000
AirShaver - include 4 high pressure AirX units	-	11,235,000	38,850,000	43,890,000	53,550,000	68,775,000
AirBattery - 40mWHr typical include 200 airX units		35,000,000	245,000,000	<u>385,000,000</u>	560,000,000	770,000,000
Total revenues	5,700,000	62,585,000	346,550,000	546,640,000	754,850,000	1,012,250,000
Gross Profit	2,122,500	17,686,000	99,930,000	174,353,500	237,395,000	342,392,500
% of revenues	37%	28%	29%	32%	31%	34%
R&D	6,000,000	15,000,000	15,000,000	20,000,000	25,000,000	25,000,000
% of revenues	105%	24%	4%	4%	3%	2%
SG&A	57,000	625,850	3,465,500	5,466,400	7,548,500	10,122,500
% of revenues	1%	1%	1%	1%	1%	1%
Total operating costs	6,057,000	15,625,850	18,465,500	25,466,400	32,548,500	35,122,500
% of revenues	106%	25%	5%	5%	4%	3%
Operating Profit	-3,934,500	2,060,150	81,464,500	148,887,100	204,846,500	307,270,000
% Operating Margin	-69%	3%	24%	27%	27%	30%
Tax	0	0	0	0	47,114,695	70,672,100
Operating Profit after tax	-3,934,500	2,060,150	81,464,500	148,887,100	157,731,805	236,597,900

⁴ Company investors' presentation, April 2020.

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Equity Value

Non-operational assets/liabilities and unallocated costs

As of June 30, 2020, Augwind has non-operational assets (cash) of approximately NIS 22.3 million. The company has no loans as of June 30, 2020.

Based on the above parameters we evaluate Augwind's equity value at NIS 2.3 billion.

Sensitivity Analysis

The table below presents Augwind's equity value in relation to the capitalization rate. We set a range of 1% change from our CAPM model (see Appendix B).

Sensitivity Analysis - Capitalization Rate vs. Target Price

САРМ	Target Price
9.0%	176.2
10.0%	144.1
11.0%	121.3
12.0%	104.3
13.0%	91.1

We estimate Augwind's price target to be in the range of NIS 104.3 to 144.1 NIS with a mean of NIS 121.3

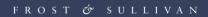


Appendix

Financial Reports

Balance Sheet

	ליום	ליום 30 ביוני	
	2020	(* 2019	2019
	בלתי	בלתי מבוקר	
		אלפי ש"ח	
<u>נכסים שוטפים</u>			
מזומנים ושווי מזומנים	22,340	811	6,952
לקוחות	1,338	2,044	2,689
חייבים ויתרות חובה	1,121	127	428
מלאי עבודות בתהליך	1,678	2,436	1,785
	26,477	5,418	11,854
<u>נכסים לא שוטפים</u> רכוש קבוע	1,230	377	353
נכס זכות שימוש	931	311	333
נכסים בלתי מוחשיים	1,066	974	1,046
	3,227	1,351	1,399
	29,704	6,769	13,253
התחייבויות שוטפות			
אשראי מתאגידים בנקאיים ואחרים	-	494	2,103
ספקים ונותני שירותים	587	944	343
זכאים ויתרות זכות	3,481	3,151	4,014
	4,068	4,589	6,460
התחייבויות לא שוטפות			
התחייבויות לתאגידים בנקאיים			100
זכאים ויתרות זכות	624	-	700
התחייבות בגין חכירה	511	-	-
התחייבות בגין תמלוגים לרשות החדשנות	1,128	1,765	1,497
הלוואות מאחרים	<u> </u>	3,500	
	2,263	5,265	2,297
הון (גרעון בהון)			
הון מניות ופרמיה	75,639	7,398	55,881
תקבולים על חשבון כתבי אופציה	24,743		21,929
קרן בגין עסקאות תשלום מבוסס מניות	3,652	236	330
יתרת הפסד	(80,661)	(10,719)	(73,644)
סה"כ הון (גרעון בהון)	23,373	(3,085)	4,496
	29,704	6,769	13,253



Income Statement

			לשנה שהסתיימה
	ל-6 חודמ	ל-6 חודשים שהסתיימו ביום 30 ביוני 2020 2029 בלתי מבוקר	
	1/2	בלוני מבוקו אלפי ש"ח	
		11 0 12/11	
כנסות	1,691	4,011	6,887
לות המכירות והשירותים	2,180	2,416	5,768
וח (הפסד) גולמי	(489)	1,595	1,119
וצאות מחקר ופיתוח	1,789	290	40
וצאות מכירה ושיווק	1,226	(** 102	729
וצאות הנהלה וכלליות	3,275	(** 834	1,984
וצאות רישום למסחר ברכישה במהופך	-	,	60,644
וצאות אחרות			53
וח (הפסד) תפעולי	(6,779)	369	(62,331)
כנסות מימון	2	141	188
וצאות מימון	240	296	568
וח (הפסד) נקי	(7,017)	214	(62,711)
ה"כ רווח (הפסד) כולל	(7,017)	214	(62,711)



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