

Flower Turbines

The wind turbine you want to live and work next to. Goal to become a large global renewable energy company

Dr. Daniel Farb, CEO | dfarb@flowerturbines.com



Validation





Pepperdine University Business School picked Flower Turbines as one of the 10 Most Fundable Companies in America in 2020 out of 4500 companies examined.

<u>Source</u>

IMPEL +

Flower Turbines chosen as a 2021 Innovator by Livermore Labs in Berkeley and the US Department of Energy

<u>Source</u>



Solar Impulse Foundation picked Flower Turbines as one of their "1000 Efficient Solutions" for climate change.

Source



Award Winner

Winner of Dutch Sustainability Award Two Separate Years



Dutch Climate Minister at an Installation





Award Winner

A Winner of Yes San Francisco Cleantech Competition



Mayor London N. Breed Executive Director Sarah Dennis Phillips

December 20, 2023

Daniel Farb CEO

Flower Turbines dfarb@flowerturbines.com

Dear Mr. Farb,

I want to offer my warmest congratulations as being one of the innovators chosen to reimagine and transform San Francisco.

I am glad you are here to help bring sustainable and equitable growth to the City's economy. I look forward to helping you in accelerating your expansion from the startup phase, and hope to assist you in locating in our great City over the long term.

Congratulations again and look forward to connecting soon.

Happy holidays and best wishes for 2024.

Sincerely,





Small wind hasn't lived up to its potential as a distributed energy source — Why?



and efficiency don't mix.



Turbines close together interfere with each other



Controversial esthetics



Bird dangerous

Solution



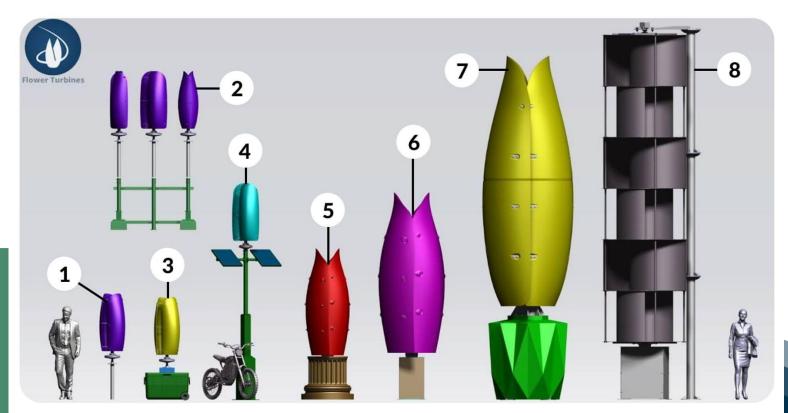
Say Hello to Flower Turbines It can provide a better solution than any other wind turbine



And they start at low speeds and survive high speeds.



The Product Line





US and EU Sales and Manufacturing



Rooftop cluster for a project in Amsterdam



Helping to power a Coldplay concert



Hilton Hotel in Israel



Earth Day in Lubbock, Texas



City of Rotterdam; combined wind/solar e-bike charging



Z-Pole Switzerland



Single Color Turbine



Dutch Military: Proven Compatible with Radar



We power you



Charging stations for e-bikes, scooters, and mobility scooters, on and off grid



Charging banks for all types of devices











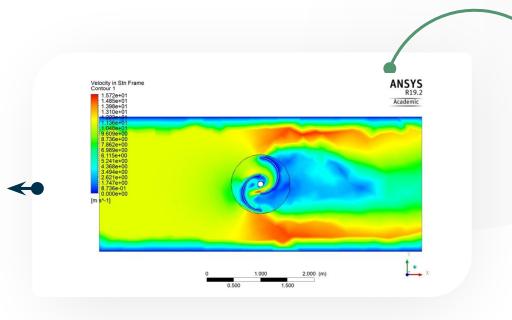
Innovation



The patented design decreases turbulence, increases efficiency, and allows turbines to work together.



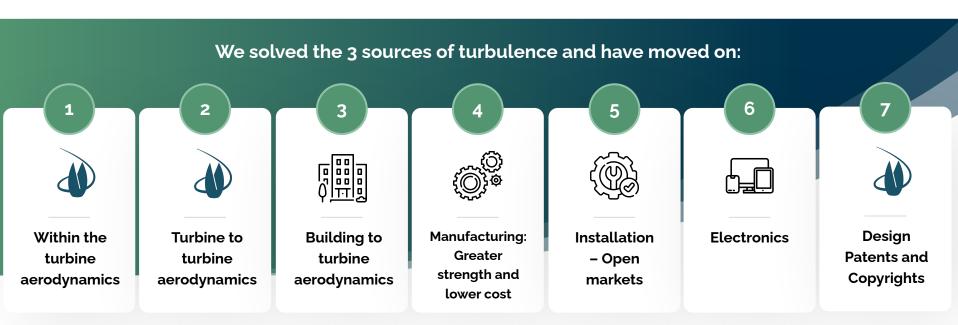
Wind from left,
red highest
velocity, yellow is
outside wind
speed, horizontal
slice through the
turbine's two
blades,
shaft in center.



Higher speed red area inside the turbine to hit the second blade and the turbine creates higher speed areas on the side.



Flower Turbines IP Categories—First Class Portfolio



We have patents and know-how addressing each. We also have copyrights and trademarks. Strong IP of over 30 patents, each often filed in several countries. Our two sets of disruptive innovations are aerodynamics and wind turbine electronics.



Elements of Our Patent Strategy—Multiple Innovations so No Other Wind Company Can Come Close

Portfolio
Approach—N
umerous
Steps and
Technology
Areas to
Overcome

New patents:
Omnibus patents
US Fast Track
Leading to Patent
Prosecution
Highway

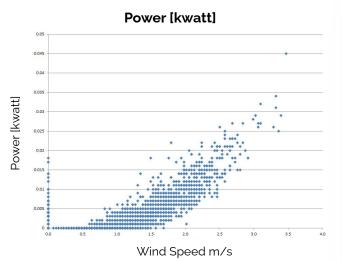
Establishing Long
Term Value

Utility patents supplemented with copyrights and design patents

Efficiency



Efficiency Even at Low Speeds; Actual Data on Earlier Version

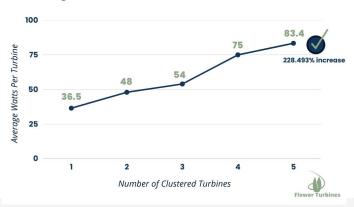


Other turbines start turning here, but the Wind Tulips are already producing

Synergistic Clustering

The Cluster Effect

Average Watts Per Small Wind Turbine at 10m/s



Each turbine produces more and more power the more turbines are in a line in the correct configuration relative to wind direction. 5 turbines correctly placed produce 228% more power than 5 separate turbines.



Leverage exclusive cluster effect to enable projects in large numbers—estimate in real estate



Example 1: Rooftops on large commercial buildings

Example 2: Parking lots of malls, other large real estate (Corporate and Government):



Flower Turbines (Large Size) Compares Favorably to Solar in Windy Areas: Economic significance of the cluster effect

	Solar	Flower Turbines
Number of kilowatts capacity and kilowatt hours per year	20 and 27,381	20 and 50,000
Space in square meters (example: 10 story apt. building)	148.7	36
Cost of system with 30% Federal tax subsidy	\$48,980	\$70,000
Value of electricity per year	\$4381	\$8000
Payback period (years)	11.24	8.75
Revenue per square meter	\$29	\$222 Higher 770%

This shows the marketing strategy: Use the cluster effect to make small wind farms, not one at a time sales.



Competition



Turbine

Little direct competition because no other company solved the problems.

Charging

Our niche is reasonably priced, high quality, and is doing well in EU.

Turbine indirect competition is from other energy sources:

Low grid prices

Solution is on providing secondary value

Low solar prices

However, solar is also a good combination with our turbines, because the cost of only solar plus a lot of batteries is higher than solar plus wind plus fewer batteries. Solar installers are looking to balance their grids and have something unique

Low large wind prices

The low price is the price for the utility, but the price is higher after delivery to the customer. We compete with the price at the point of sale.



Selection of Some Top People in the Company



Dr. Daniel Farb
CEO and Founder, IP Manager

Startup experience in software, clean energy, medical. Won recognition in forums from US Congress to Israeli tech (top 45 in Israel's history) to CBS TV. Degrees in humanities, business, science.

Has over 80 patents.



Hani Gera
Business Development

Executive MBA, 15 years of corporate experience



Warren Stoll

Lawyer by training. In addition to other work in operations and investing, exited four startups, one to Microsoft.



Ali Grattan

Marketing Director

Graduate of Texas Tech, Electronic Media and Communication, Content Creator



Ika Baitish Mechanical Engineer

Graduate of Technion, expert in engineering software for complex shapes, engineered startup products for manufacturing for high-level clients



Turbines

Margin currently around 20%. Will improve with increased volume

Charging

Margin 20-40% in Europe.

Recurring Revenue Plans:

Selling Electricity in Projects Advertising from
Turbine and
Network of
Charging
Stations

Licensing
Electronics
Patents to Large
Wind Companies



o Start: \$2.5 M from founder, friends, family, and angels

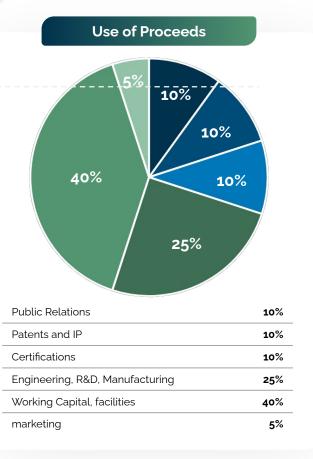
Round	Amount	Share Price	Closed?
1	\$1.07M	\$10	Closed with waiting list 12/19
2	\$1.03M	\$30	Closed with waiting list 12/20
3	\$9M	\$70	12/30/21
4	\$4.5	\$12 (1:10 split)	Closed 2/17/24
5	\$1.7M	\$12	Closed 5/31/24
6	Asking \$3-10M	\$14	-In progress at https://www.startengine.com/ offering/flowerturbines and https://www.frontfundr.com/fl owerturbines in Canada

Non-Dilutive Funding

- Multiple small R&D grants in the NL
- Putting together plans for EU R&D grants
- Multiple small State
 University of New York
 research grants in
 association with Stony Brook
 University

Use of Proceeds







Join us to change the world!

Dr. Daniel Farb, CEO | dfarb@flowerturbines.com





