Unlocking value in mid-level, turbulent wind

Kevin Wolf, CEO

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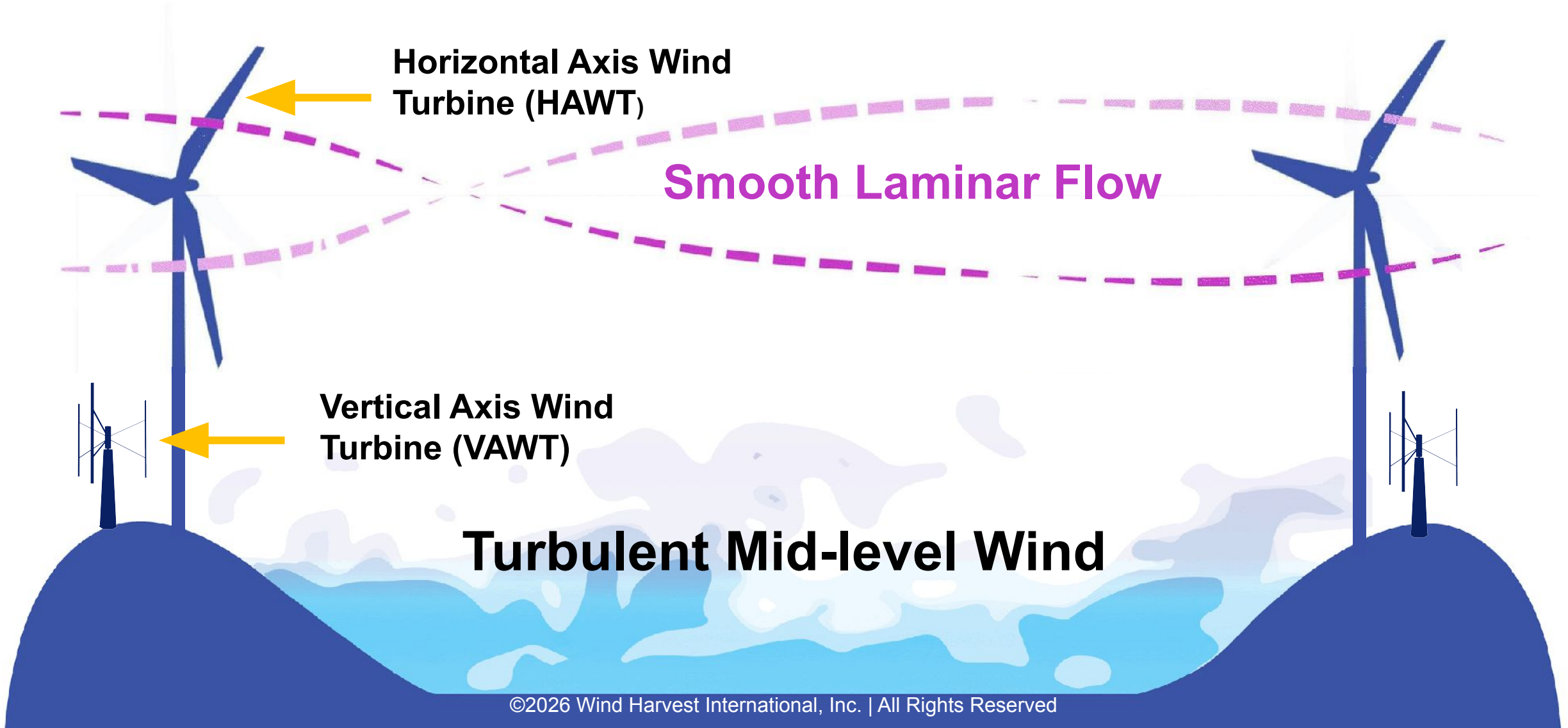
Problem: HAWTs are NOT designed to harvest mid-level wind



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VAWTs failed to scale into this market due to:

Vibration Unpredictability

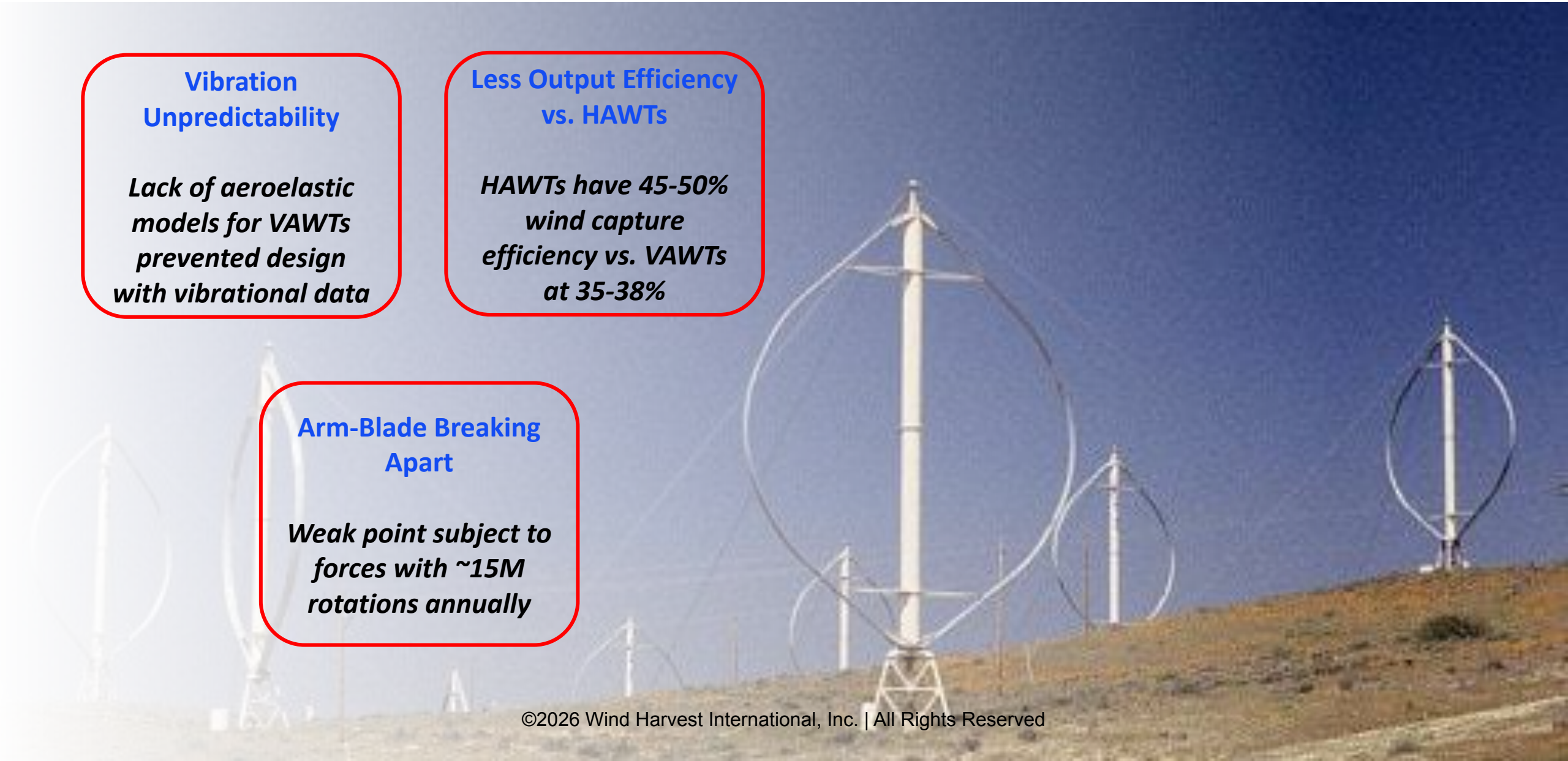
Lack of aeroelastic models for VAWTs prevented design with vibrational data

Less Output Efficiency vs. HAWTs

HAWTs have 45-50% wind capture efficiency vs. VAWTs at 35-38%

Arm-Blade Breaking Apart

Weak point subject to forces with ~15M rotations annually



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SOLUTION: *Wind Harvesters*

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Validated Aeroelastic Model

3x field validated aeroelastic modeling proven accurate. Solved vibration problem

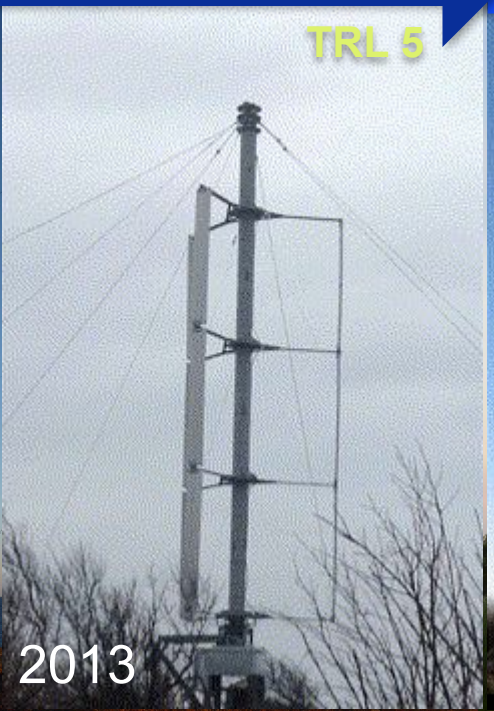
Patent Portfolio

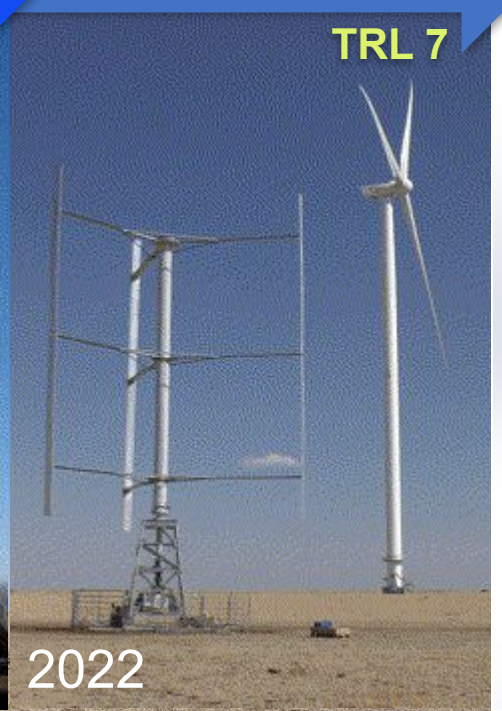
Ready for Certification at TRL 8 – 9 patents granted 2024-26. Hinge patents solved arm-blade breakage problems

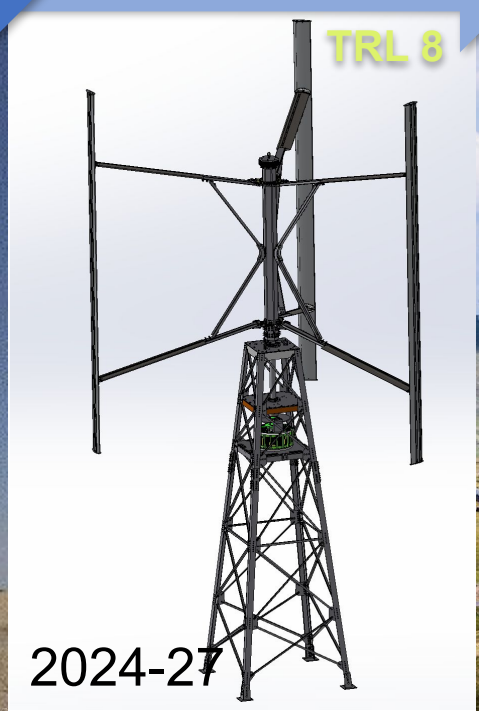
High efficiency in arrays

Can match HAWT efficiency when installed in pairs, a meter apart. Solved low efficiency problem.

Model 2.0 → Model 3.0 → Model 3.1 → Model 4.0 → Commercialized

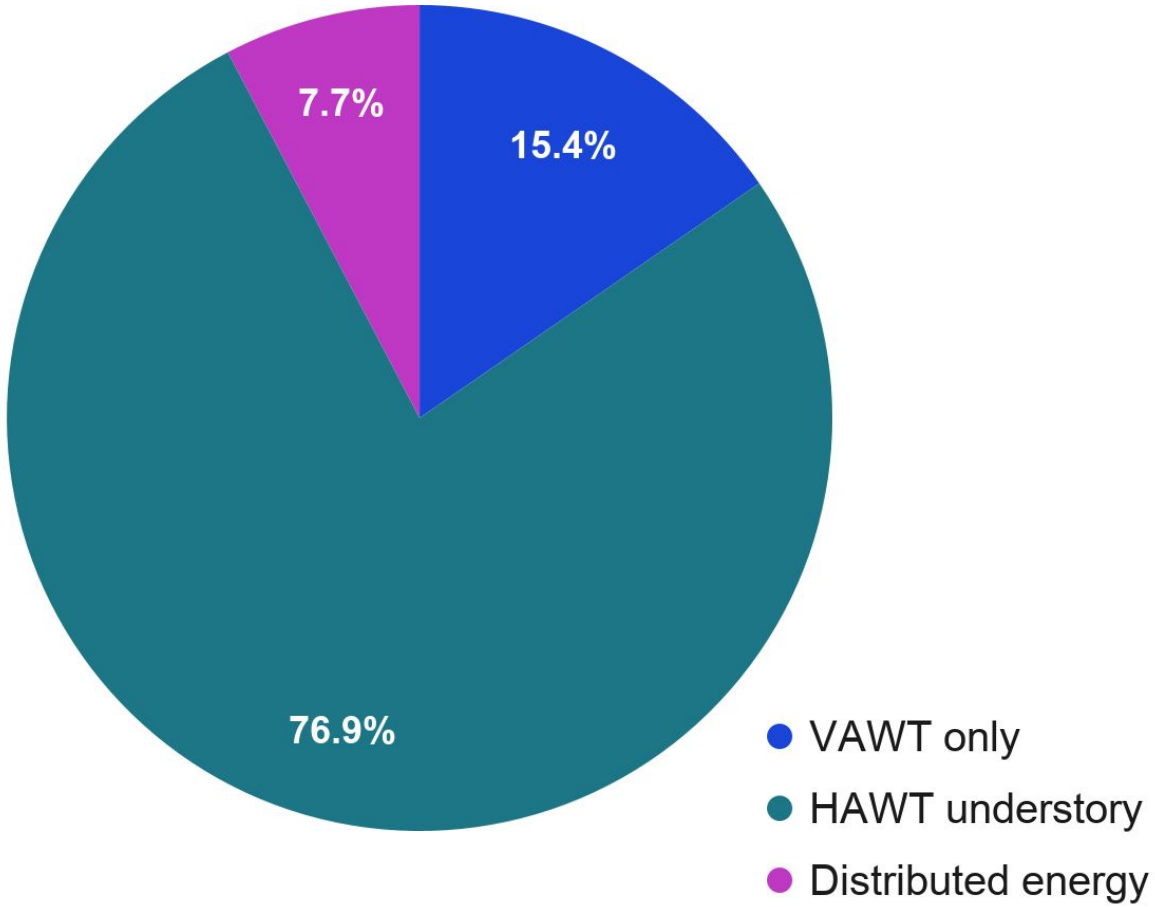






The Global Addressable Market is Large

2030 TAM - over $1 Trillion



Mid-level wind unutilized in existing HAWT farms represents $400B opportunity today — projected to double by 2035.

Immediate Development

VAWT-only Ecosystems ($200B)

Greenfield projects on tribal lands, island grids, and constrained sites where HAWTs are unviable..

Anchor Market post Certification & Wildlife Impact Data

VAWTs in 34% of HAWT Understories ($800M)

Deployment in mid-level wind beneath HAWT arrays — 280 GW profitable potential now.

Increasing local reliability and lowering electical costs

VAWTs in Distributed Energy ($100B)

Behind-the-meter and projects that feed into the local distribution grid wherever it is windy.

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USE CASE: Capacity Factor Enhancement

Example: A 100 MW Wind Farm

25 MWs (~350 *Wind Harvesters* = $60M)

125 MWs combined. Uses only the existing 100 MW substation and transmission line

20-25% ↑ project Capacity Factor

~5% ↑ Energy Output for HAWTs

10-year HAWT life extension possible because they can pitch blades earlier

No new land, main roads, or fencing

Lower O&M costs

Wind Farm Synergy:

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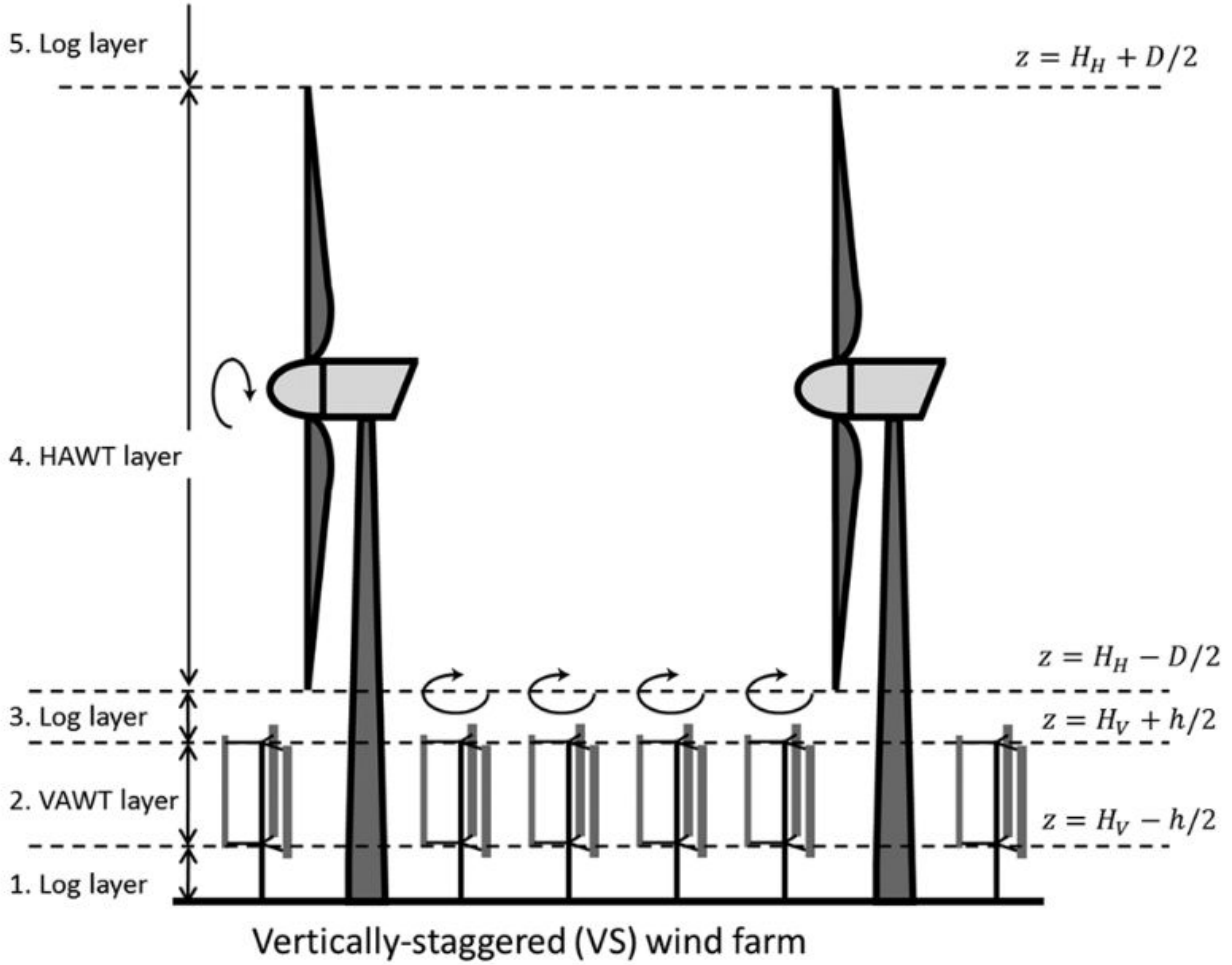
VAWTs help HAWTs

Modeling shows VAWTs can create a **10% increase in output** of HAWTs

VAWTs shed vortices that draw down **faster moving wind** into HAWT blades

Theoretically, VAWTs beneath **can extend HAWT fatigue life** by 10 years

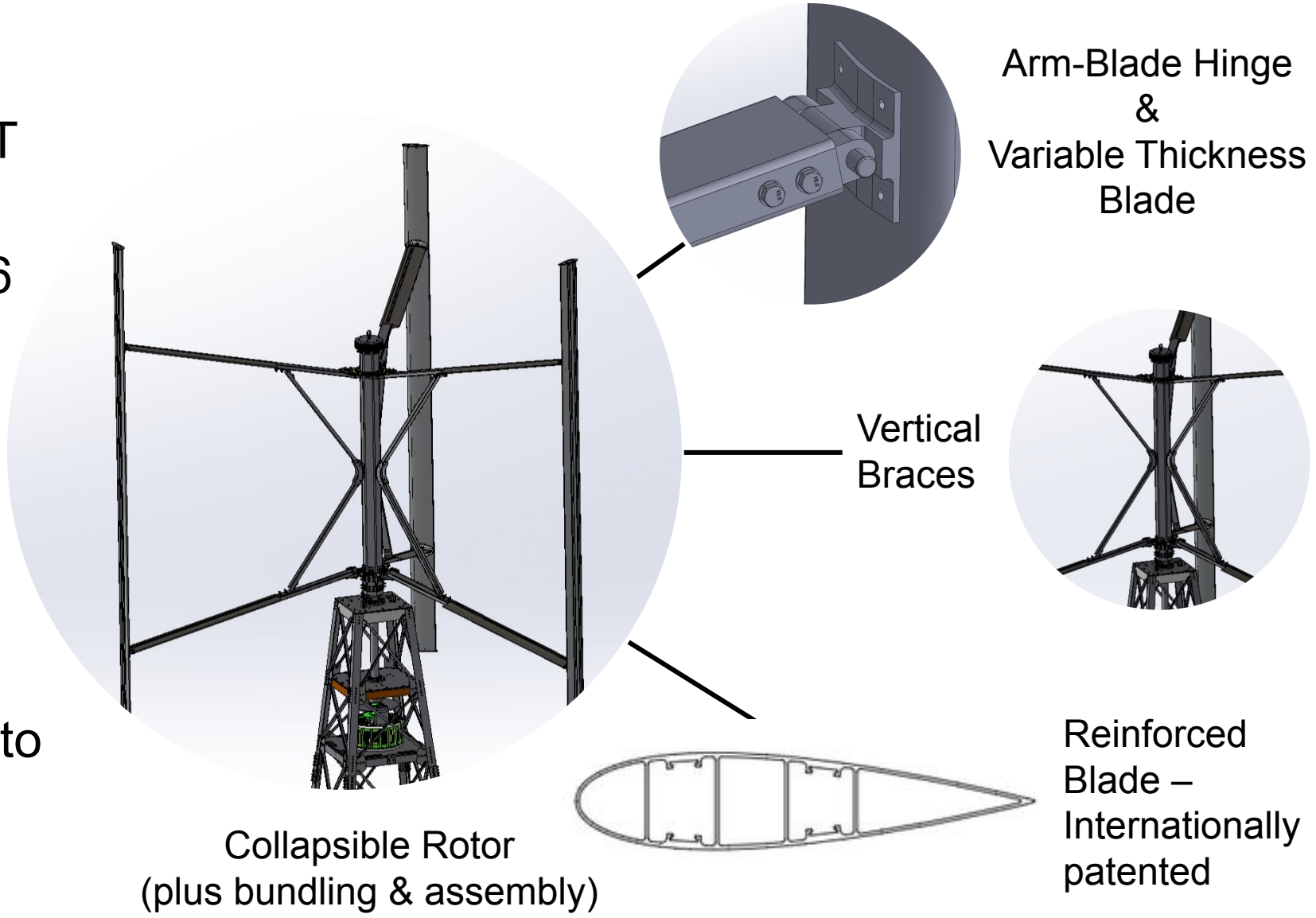


Vertically-staggered (VS) wind farm

Figure in Shengbail Xie, Cristina Archer et al., 2016

Solid & Growing IP Portfolio

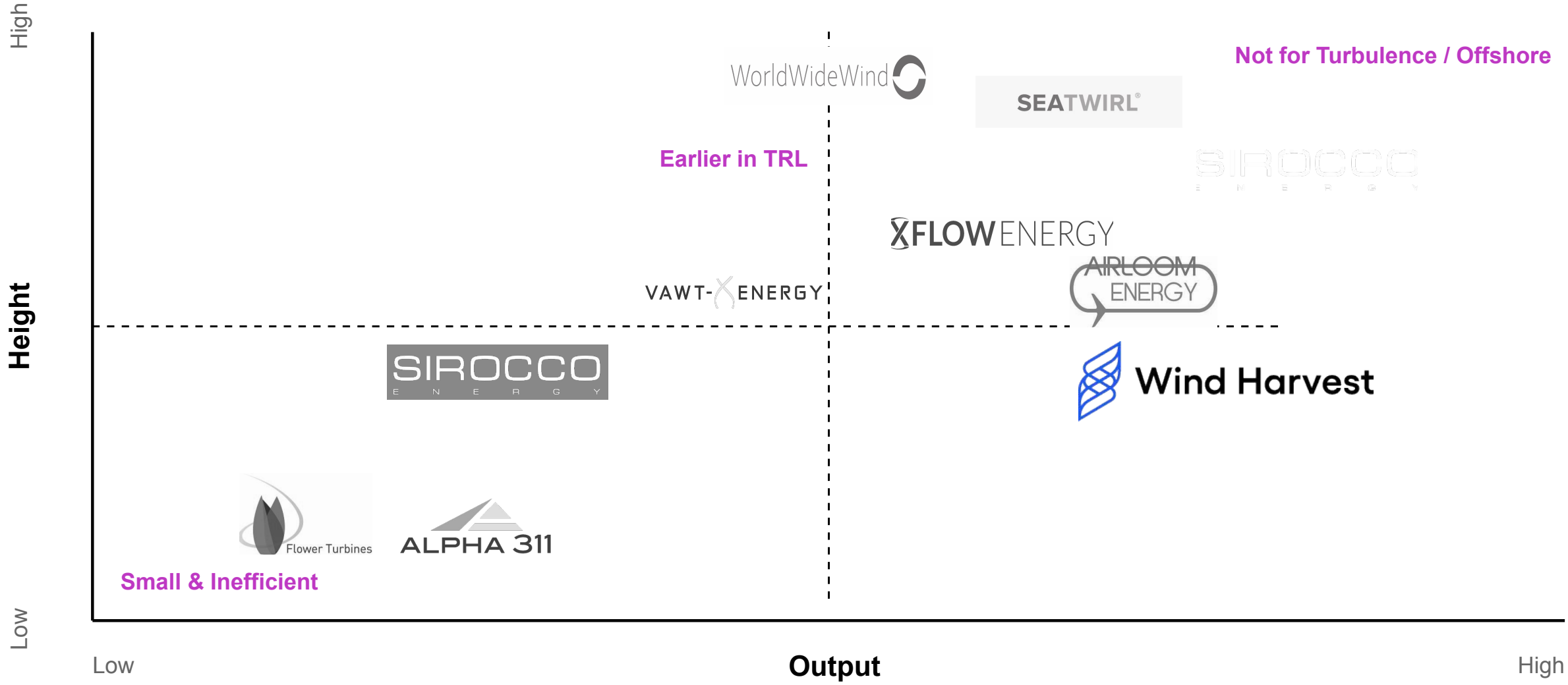
- Proprietary code for VAWT aeroelastic modeling
- 9 patents granted 2024-26



OEMs will likely need to license our patents and IP to make VAWTs for turbulent mid-level wind.

Competitive Landscape

Wind Harvest Advantage: Lower Height & Higher Output in Pairs



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Sales Pipeline

Certification in 2027, Over 16,000 Turbines Distributed by 2030

Projects and Customers (Capacity of Turbine Generators)	Location	2027	2028	2029	2030	Total
Tribal casinos and other projects	Mid-West USA	14		50	2000	2,064
PHRT Refinery	St. Croix, USVI	10			100	110
UK Sales	Scotland, England	2	50	500	2000	2,552
National Sports Council and Govt.	Barbados	2	20	200	500	722
MX JV or Company	Mexico	3	50	500	2000	2,553
Other JV or Company Projects	International		50	500	2000	2,550
Distributors and Direct Sales	US & International		50	500	2000	2,550
Wind Farms (70kW)*	US & International		50	100	6000	6,150
Turbines Sold		**31**	**270**	**2,350**	**16,600**	**19,251**
MWs Sold		**1.9**	**16**	**141**	**1,079**	**1,238**

Capital Needs & Funding Opportunities

$5M remaining

$8M Series A6. It and possible mezzanine financing will serve as bridge to the Series B round

$50M cash bond backed

Possible line of credit in Q1 2027 from two family offices for financing projects and inventory plus equity

$40M Series B round

Chair Capital Q3 2027 MOU signed · $60M in additional capital for project financing

Leadership Team

Wind Harvest

Kevin Wolf
Founder & CEO

- 20 yrs experience with Wind Harvest
- Ecologist, Facilitator, Organizer, Leader
- VAWT expert

Tom Williams
VP of Operations

- 20+ yrs in executive positions in wind turbine manufacturing, installations and sales
- Financial expert

Dr. Ola Ajala-Inyang
Principal Engineer

- 14+ yrs in energy engineering
- Expert in our models
- Inventor

Wind Harvest

Unlocking Untapped Wind Resources.

Kevin Wolf | Chief Executive Officer & Co-Founder

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