



Wind Power Faces Challenges & Opportunities

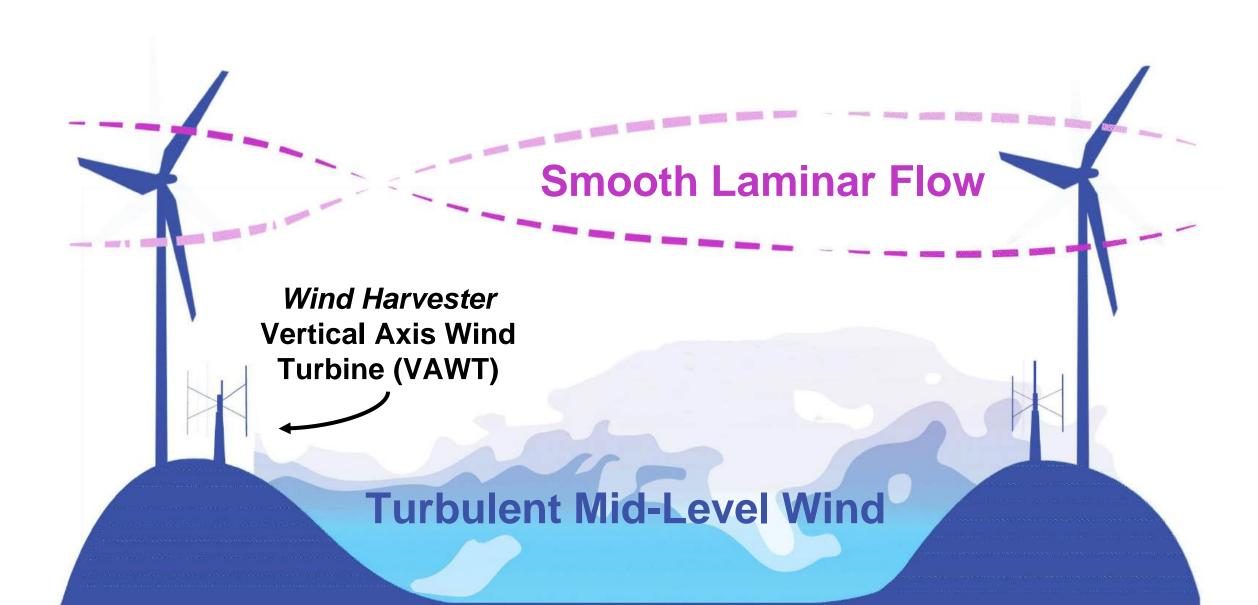
Most good wind resources are already built out & new ones are costly

Many windy locations are unsuitable for tall & large turbines

Al needs green energy, but it is costly & solar is land intensive



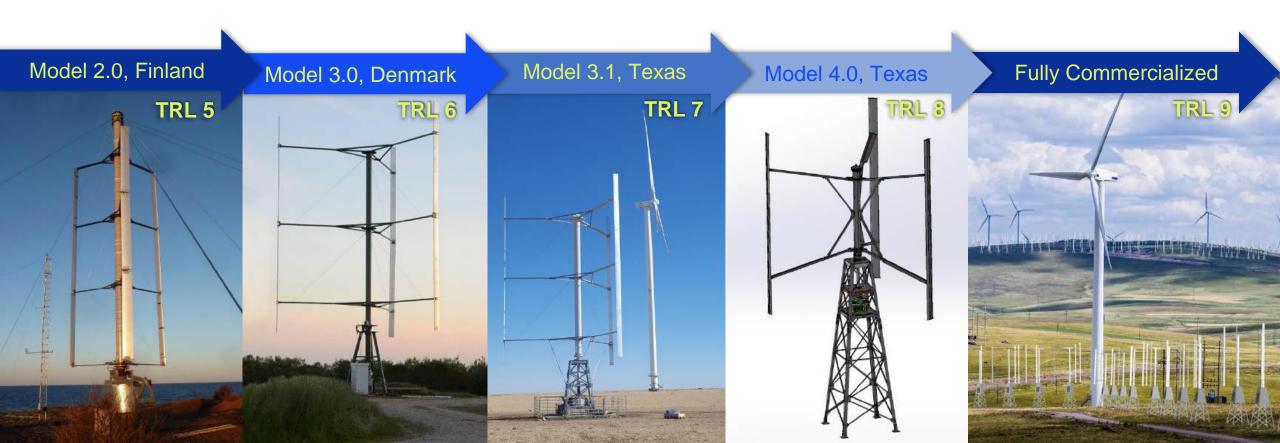
It's Time to Make Use of Turbulent Wind



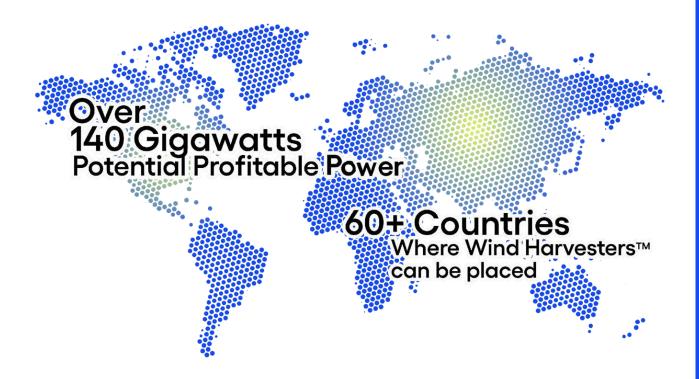


SOLUTION: Wind Harvesters

- First-to-Market with a compact turbine that operates in turbulent wind
- Designing for turbulence resulted in a turbine with a 70-year fatigue life
- Ready for Certification (<u>Technology Readiness Level 8</u>)



Market Opportunity:



Mid-level wind in 18% of the world's wind farms is is excellent, averaging over 6.5m/s at 20m above ground level. At least 140 GWs worth of VAWTs could be added here. This market should double in 10 years be worth over \$1 trillion.



- Beachhead Market: Distributed Energy
 - Distribution Centers
 - Air Force Bases
 - Other high energy use facilities
- Primary Market: Wind Farm Understories
 - Capacity Factor
 Enhancement Projects
 - Co-located facilities like
 Al Datacenters & Green
 Hydrogen Production



USE CASE: Capacity Factor Enhancement

Example: An Existing 100 MW Wind Farm

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

125 MWs combined – use existing 100 MW substation & transmission line

20-25% ↑ project Capacity Factor

~5% ↑ Energy Output for HAWTs

10-year HAWT life extension possible – pitch blades earlier in high wind events

No new land, access roads, or fencing

8-15+% Project IRRs

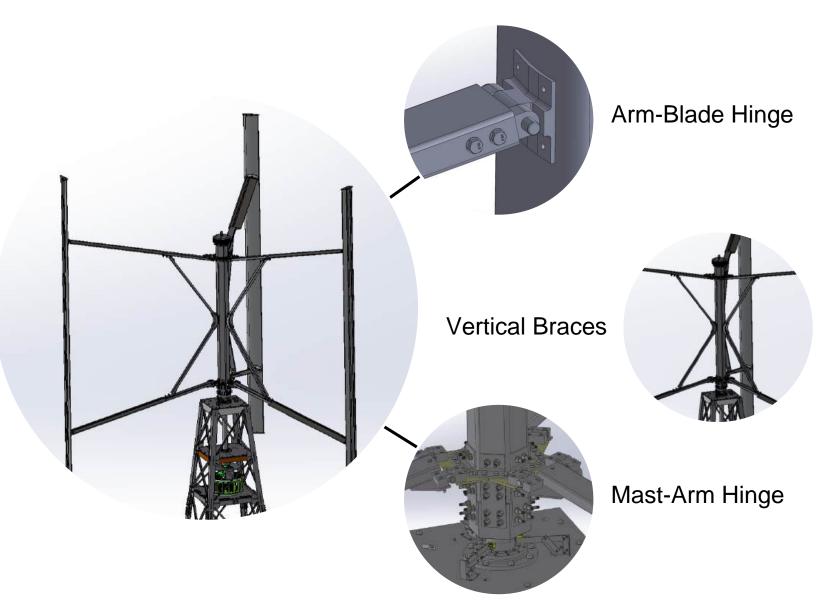


Solid & Growing IP Portfolio



- 3 patents granted so far in 2024
- 6 more patents pending

Others will need our IP to make VAWTs for wind farms

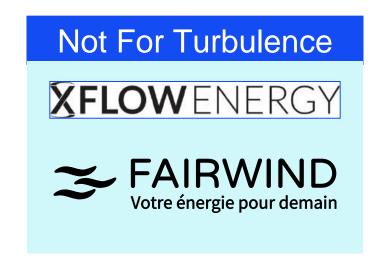




Ahead of the Competition:

First VAWT to the Turbulent Wind Market







First-to-market advantages:

- 1st VAWTs made for turbulence
- Others will need Wind Harvest's patents
- Major OEMs interested in M&A or licensing





Potential for Licensing







SIEMENS





- Major OEMs have no VAWT experience, engineers, or models
- They know that the turbulent wind resource is huge
- Their fastest entry into VAWT market is to license Wind Harvest IP
- Global market too large for one company to capture

Key Team Members Making it Happen:



Kevin Wolf, CEO



- Founder*
- Scientist
- Facilitator
- 20 yrs exp. in wind industry and with Wind Harvest

Tom Williams



- Strategic Advisor
- Financial expert
- 20+ yrs executive exp. making and selling wind turbines

Dr. Ola Ajala-Inyang



- Principal Engineer
- 14+ yrs exp. as energy engineer
- Expert in our models
- Inventor

Dr. David Malcolm



- Senior Engineer
- 40+ yrs exp. as energy engineer
- 1st aeroelastic modeling for VAWTs
- Inventor

^{*}Bob Thomas and George Wagner, the other co-founders, are deceased

Project and Sales Pipeline



Projects and Customers	Location	Wind Harvesters Sold						
(Capacity of Turbine Generators)	Location	2025	2026	2027	2028			
St. Lucy 1,2 and 3 (50kW)	Barbados		2	100	400			
Anza Hills Projects (60kW)	Riverside County, CA			16				
Wind Harvest First LLC (70kW)	UL Test Facility, TX	3						
St. Croix Refinery (50kW)	USA		100		800			
Solano County Projects (60kW)	Solano, CA			16				
Isthmus of Tehuantepec (70kW)	US & International		7	28				
ATE LLC Projects (60kW)	US & International		16	100	500			
Distributors (60kW)	US & International			100	500			
Wind Farm Owners (75kW)	US & International			40	40			
	Turbines Sold	3	125	400	2,240			

Financial Projections: in \$ million



	2025		2026	2027		2028	2029	2030
Unit Sales	3		100	360		1,200	2,700	5,100
Total Revenue	\$ 1.55	\$	42.14	\$ 136.99	\$	390.37	\$ 723.98	\$ 2,026.44
Total Equipment COGS	\$ (1.06)	\$	(29.01)	\$ (94.51)	\$	(272.61)	\$ (567.43)	\$ (1,616.33)
Gross Profit	\$ 0.49	\$	13.13	\$ 42.48	\$	117.76	\$ 156.54	\$ 410.11
Gross Margin	31.5%		31.2%	31.0%		30.2%	21.6%	20.2%
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Total Operating Expenses	\$ (3.45)	\$	(6.34)	\$ (8.60)	\$	(17.26)	\$ (25.59)	\$ (42.61)
EBITDA	\$ (2.96)	\$	6.79	\$ 33.88	\$	100.50	\$ 130.95	\$ 367.50



Creating New Markets for VAWTs

- First utility-scale turbines to operate in turbulent wind
- Difficult for potential competitors to make a utilityscale VAWT w/o our patents
- \$30M in sales in pipeline for 2025-26



