PARSONS KINETICS

Democratizing Wind Power

Jonathan Rojas

CEO – Cofounder

→ Jonathan@parsonskinetics.com

Conventional turbines require wind speed ≥10 m/s → less than 1% lands

Solar only generates 4–6 peak hours/day → forces grid reliance & requires large land areas → conflicts with agriculture/industry.

Latinoamérica

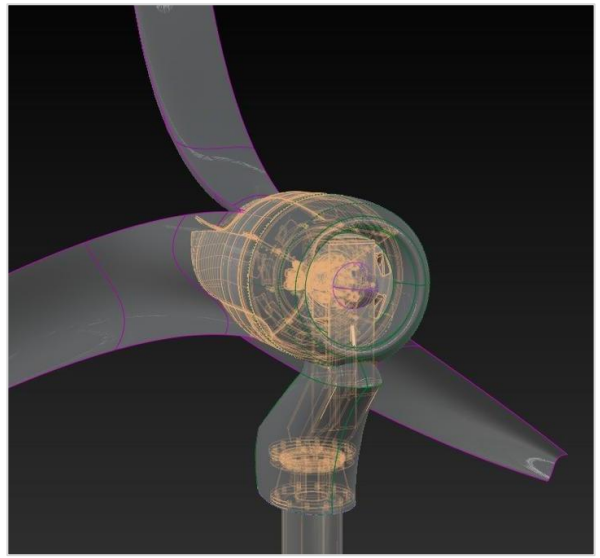
The energy crisis hits Latin America, which is experiencing unprecedented blackouts and droughts

Por EFE

5 min de lectura · 11:49 ET (15:49 GMT) 21 de octubre de 2024

Alternatives like solar and traditional wind have important restrictions:

Our Bio-inspired Wind Turbine Addresses These Challenges

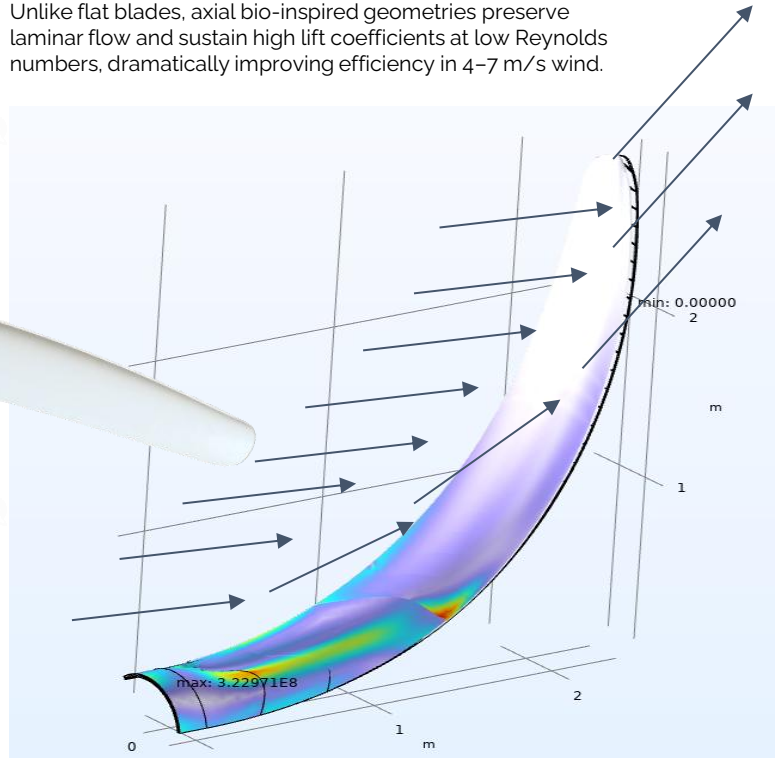


CONCEPT → DESIGN → PRODUCT

A bio-inspired, passive-control small turbine engineered for moderate-wind regions, delivering solar-like simplicity with utility-scale performance LCOE ≤$65/MWh.

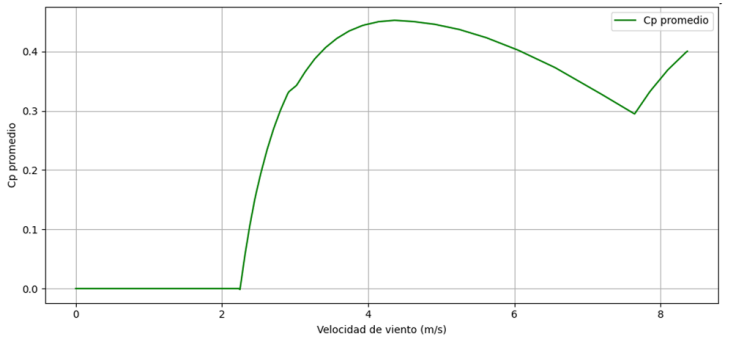
Bio-inspired axial blade architecture optimized for 4–7 m/s

Unlike flat blades, axial bio-inspired geometries preserve laminar flow and sustain high lift coefficients at low Reynolds numbers, dramatically improving efficiency in 4–7 m/s wind.



Performance Highlights

Coeficiente de Potencia Promedio vs velocidad de viento incidente suma de curvas de velocidad de rotación con 50 RPM y 170 RPM



- **≥45%** Cp at moderate wind
- **>20-year lifetime**
- **≤$65/MWh LCOE pathway**

Metric	Parsons Kinetics	Solar DG	Small Wind Legacy
LCOE	**<$65/MWh**	$45–80/MWh	$120–150/MWh
Capacity Factor	**30–33%**	15–22%	10–15%
Land use (m^2/kW)	**3–7**	30–100	3–7

Value Proposition

Over **80%** of LATAM's land has moderate winds where conventional wind fails. Parsons Kinetics delivers **<$65**/MWh power with 15× more energy per m^2 than solar, enabling both self-use and energy commercialization, generating a new income stream for landowners without sacrificing agricultural land.

01

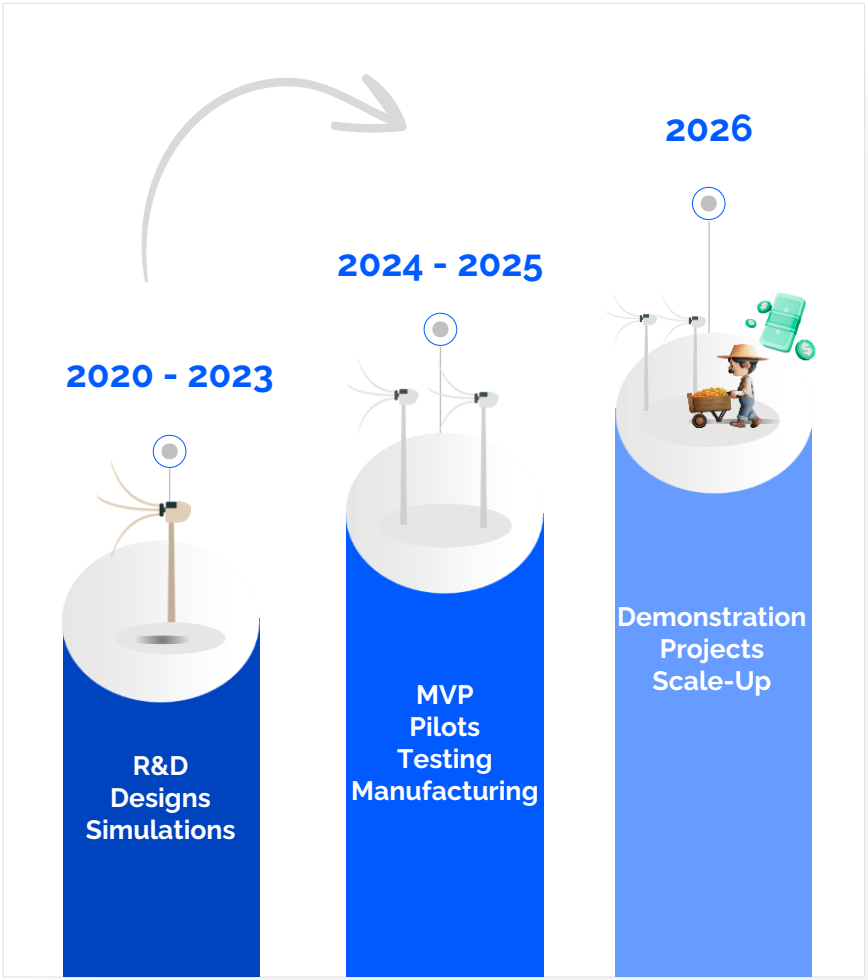
Most small landowners in LATAM live near the poverty line because agricultural yields alone cannot sustain livelihoods.

02

Climate change intensify this vulnerability, one hectare installation can add **$10–25k/YR** in energy revenue.

03

5-Year Trajectory to Market Activation



First Demonstration Projects Tkt Size $50K - $130K

First Customers	Potential Customers
carbOing, ecoPETROL	VEOLIA, OCENSA, TOYOTA MATERIAL HANDLING RAYMOND, CGR Doña Juana, enlaza

Pilot Projects & Local Partnerships

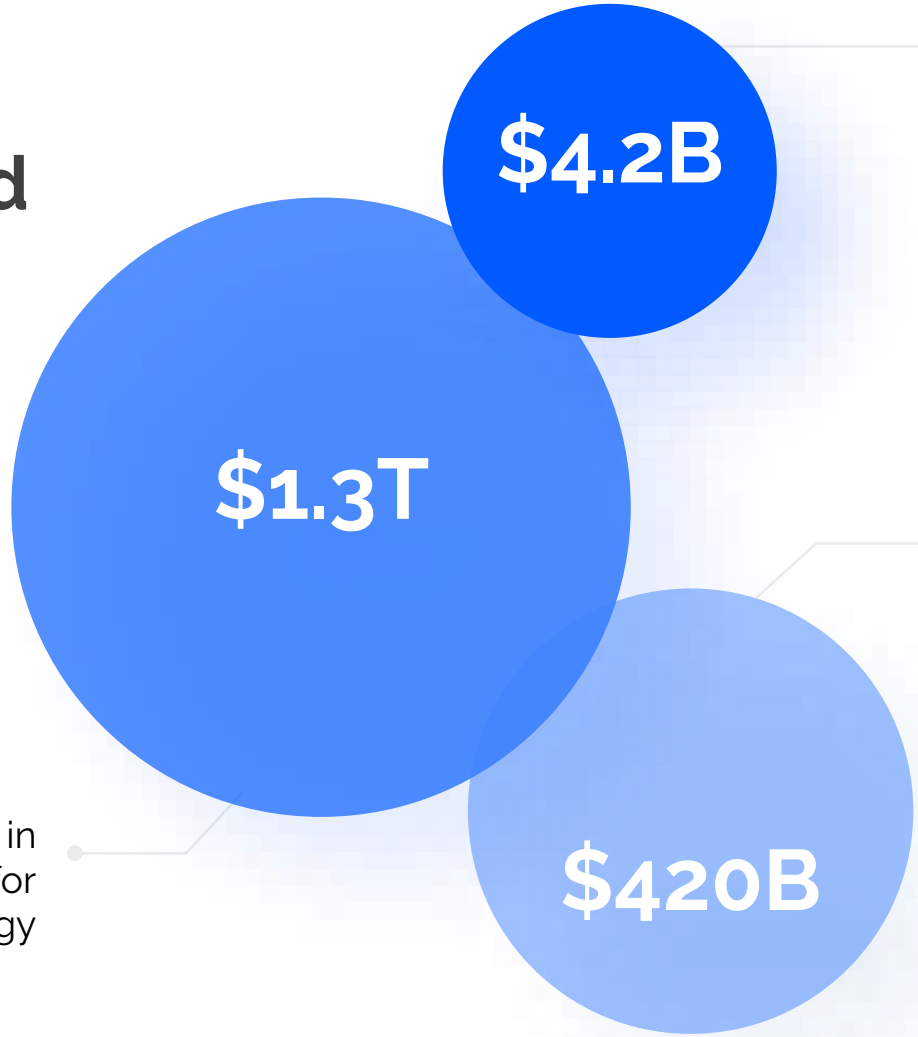
giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

CATALIST

Technology R&D, pilot manufacturing

A $420B Market
Waiting to Be Activated

150M Hectares in LATAM suitable for distributed wind energy



Target in 10 years

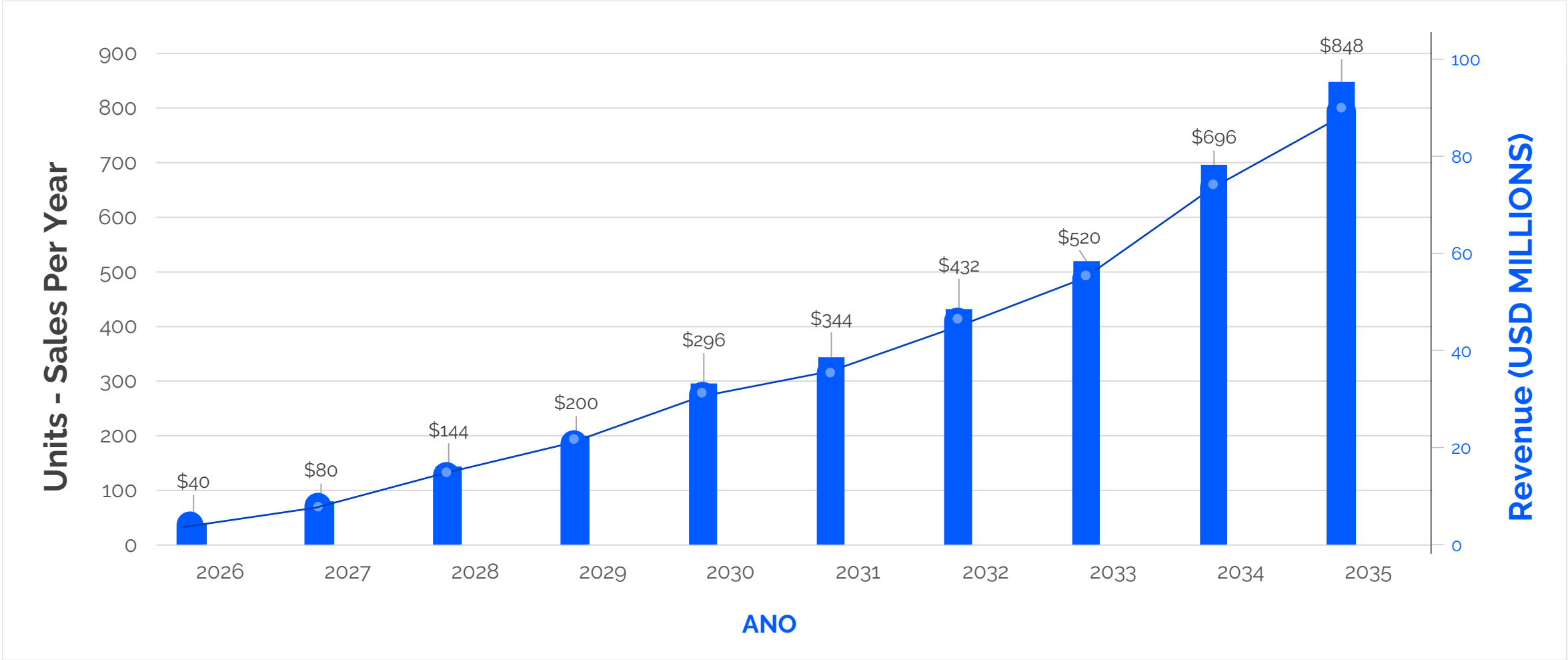
By developing just
1% of the serviceable market

7M Hectares already in qualified zones

How It Works

1M Ha x $400K= $400B → Project development per hectare: **$400K**

Projections 10 Yr



3-YEAR IMPACT- 12.9 Kt De CO2

Mitigated Equivalent to:

600,000

A forest
with Trees

12,970

Passengers flying from
London to Washington

2,570

Times the mass
of elephants (5 t)

DECENT WORK

250 new jobs with
gender equality

Our Global Expert Team

We've already won international recognition, and built a multidisciplinary team including experts from Colombia, Denmark, France, and the Netherlands.

Jonathan Rojas

Team Leader

- Business developer, Enterprising. Engineering. MSc Strategic Thinking and Foresight.

Camilo Bayona

Ph.D.-MSc.

- Scientific Direction PhD in Engineering. Mechanical Engineer.

Lorena Salazar

PhD-MSc.

- Sustainability Direction
- PhD in Sustainable Development

Rosemberg Espinel

Manufacturing Director.

- Innovation Manager | MSc. Automobile Design

Valerie Noel

Entrepreneur

- Purpose driven entrepreneur. Partner & Board Member Les Biens en Commun, La French Tech Bogotá

International Mentors

Angello P. Van Amersfoort

- Energy market
- Country: Netherlands
- Ex-Shell

Mohammed Fajar

- Blade Expert
- Country: Denmark
- Ex-Vestas

Nicolas Noel

- Financial Expert
- Country: France
- Ex-Lactalis/Parmalat

Thank You!

www.parsonskinetics.com

jonathan@parsonskinetics.com