

The Future of Wind Power
Technology & Pilot Project Briefing



airloom.energy

AIRLOOM ENERGY

Empowering Renewable Innovation

Headquartered in Laramie,
Wyoming

2016 Founded
2023 Prototype Demonstration
2024 Secured Seed Funding &
Awarded Wyoming Energy
Matching Funds Grand
2025 Pilot Project Launch

Designed & Built in Wyoming for Global Impact

Wyoming's vibrant business innovation ecosystem empowers AirLoom to leverage community support and the state's unmatched energy resources, positioning us to export renewable solutions worldwide.

Meet the AirLoom Team

A diverse group of engineers, designers, and innovators dedicated to accelerating renewable energy adoption and driving sustainable change.

Technology Overview

Novel wind energy generation technology, based on a vertical axis configuration.



Next-generation wind turbines:

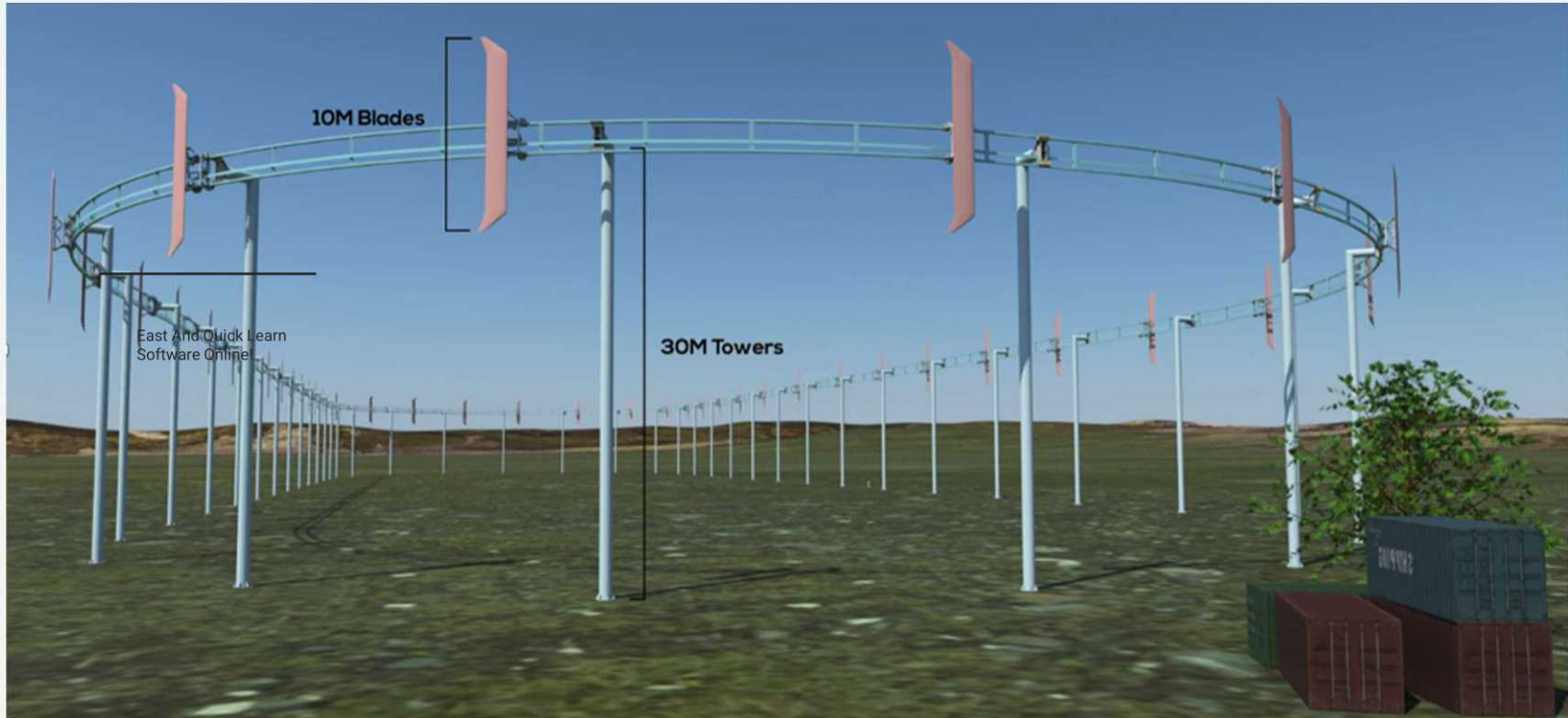
- Better Physics
- Scalable Swept Area
- Higher Energy Density
- Simpler Transportation, Installation & Maintenance

Advantages over traditional horizontal axis turbines:

Advantages over traditional horizontal axis turbines:

- Deployable at Lower Wind Speed Sites
- Deployable at Sites with Height Restrictions
- Smaller Visual Signature
- Increased Recyclability

Technology Overview

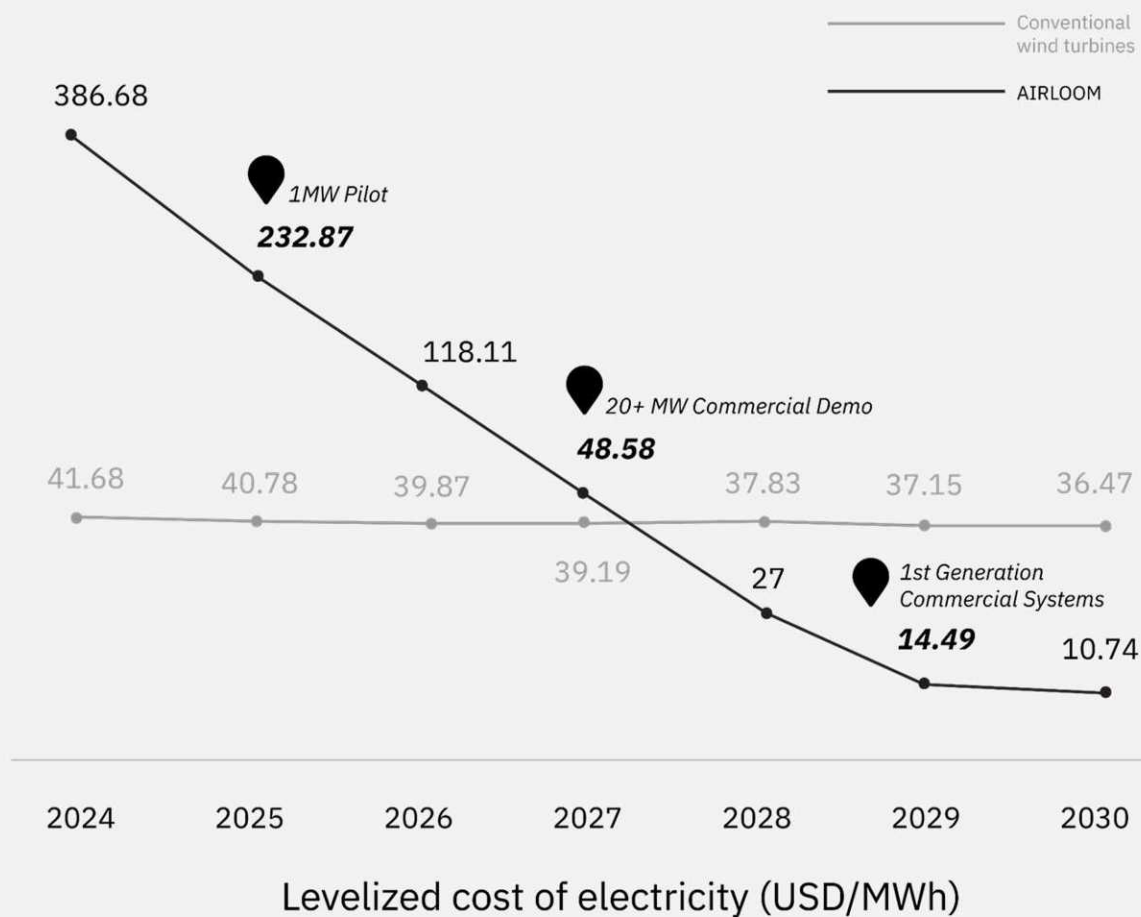


TECHNOLOGY OVERVIEW

Airloom can disruptively lower the cost of wind energy

Airloom LCOE reductions from 2024 to 2030 result from:

- Scaling from 1MW to 32MW
- Availability increases from 40% to 98%
- Supply chain development
- Weighted average cost of capital reduces from 12.74% to 6.33%
- System lifetime improves from 15 years to 30 years
- OpEx decrease as the number of routine and catastrophic failures decreases



Sources: Lawrence Berkeley National Lab https://eprints.lbl.gov/abstract/getfile?abstract_id=50000&file=wind_lcoe_elicitation_re_pre-print_apr2021.pdf
Airloom forecast from internal modeling that leverages NREL methodology, and input from outside consultants.

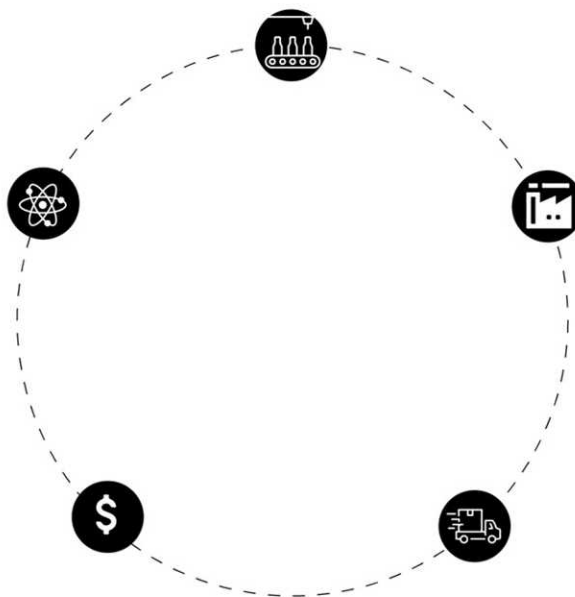
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How Can It Be So Low Cost?

Five factory synergistically reinforce each other, yielding substantial cost savings.

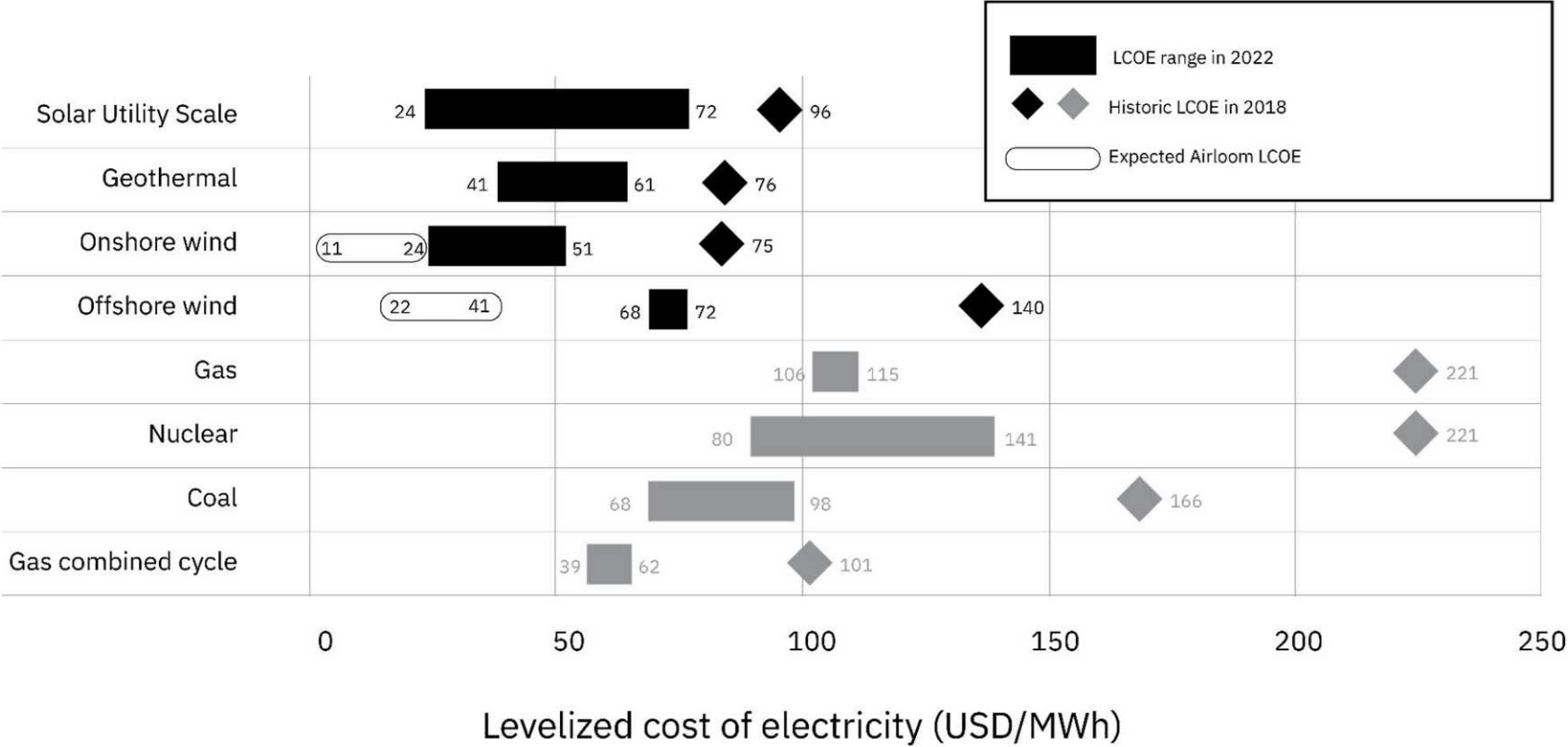


- **Physics**
Airloom architecture can more efficiently convert kinetic wind energy into mechanical energy
- **Less Structure Per Swept Area**
Simple, modular structure enables low cost, scalable swept area



- **Mass Production of Human-Scale Parts**
Airloom uses low-cost, mass manufacturable components
- **Lower Balance of Plant Costs**
Airloom site layout requires fewer roads, less electrical collection cabling, and less overall infrastructure
- **Simple Transit, Installation, and Maintenance**
Smaller parts and lower mass simplifies transportation, installation, and maintenance

Airloom Could Be The Lowest Cost Energy of Any Type





PILOT PROJECT PLANS

A New Technology to Revolutionize and Further Expand the Wind Industry

Small Pilot Project to Demonstrate Product Viability

20-40 acres in size

Necessary for product testing, research & development

Based on engineering and standard for the roller coaster industry

Proven safety record

Established methods to manage noise and disruption

~66ft (20 meter) track height, limited viewshed impact

Targeting 400kW of nameplate capacity

No interconnection envisioned, strictly product testing and demonstration

TEAM

Honored to Be
Supported by a
Strong Array of
Investors &
Partners



Google



Vestas®



LOWERCARBON
CAPITAL



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Thank You



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