

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:

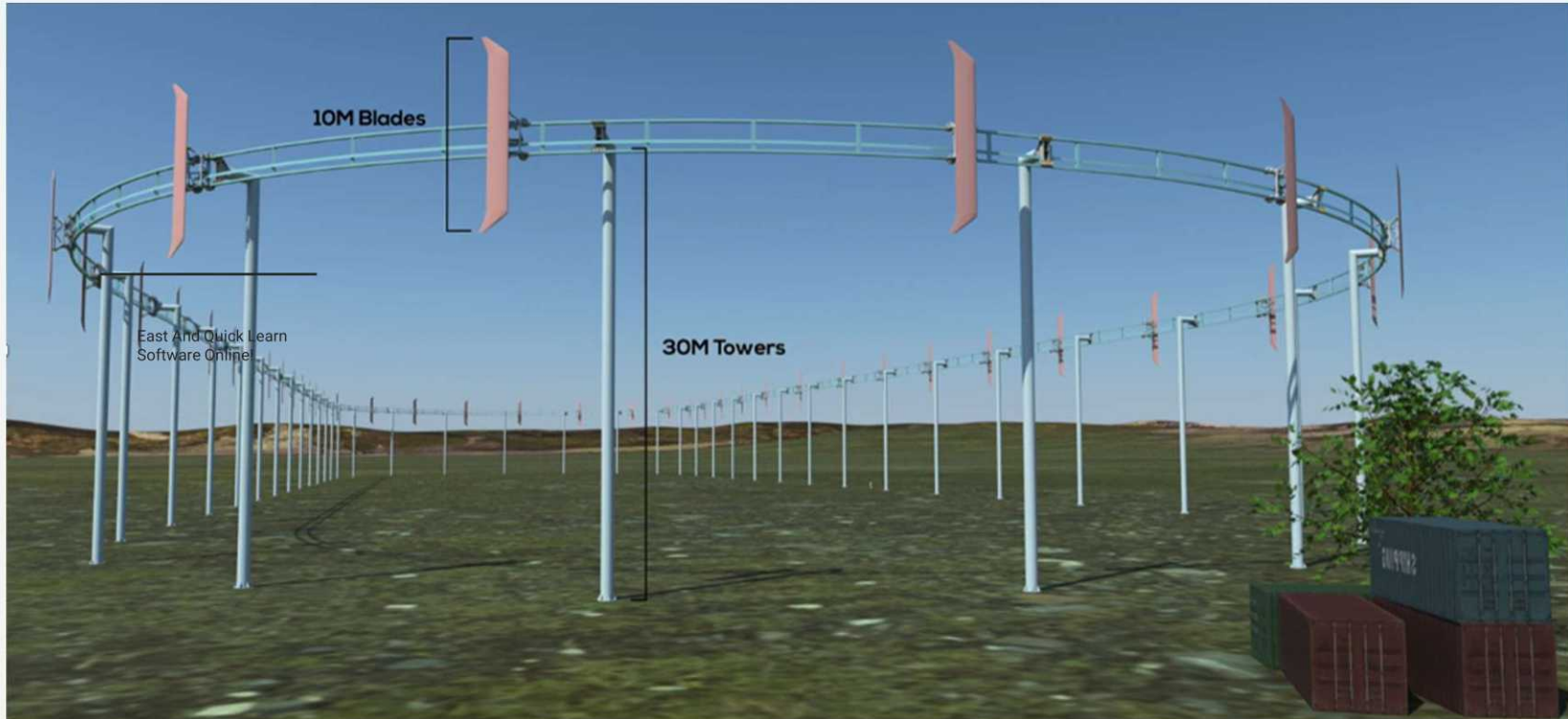
- Better Physics
- Scalable Swept Area
- Higher Energy Density
- Simpler Transportation, Installation & Maintenance

## 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

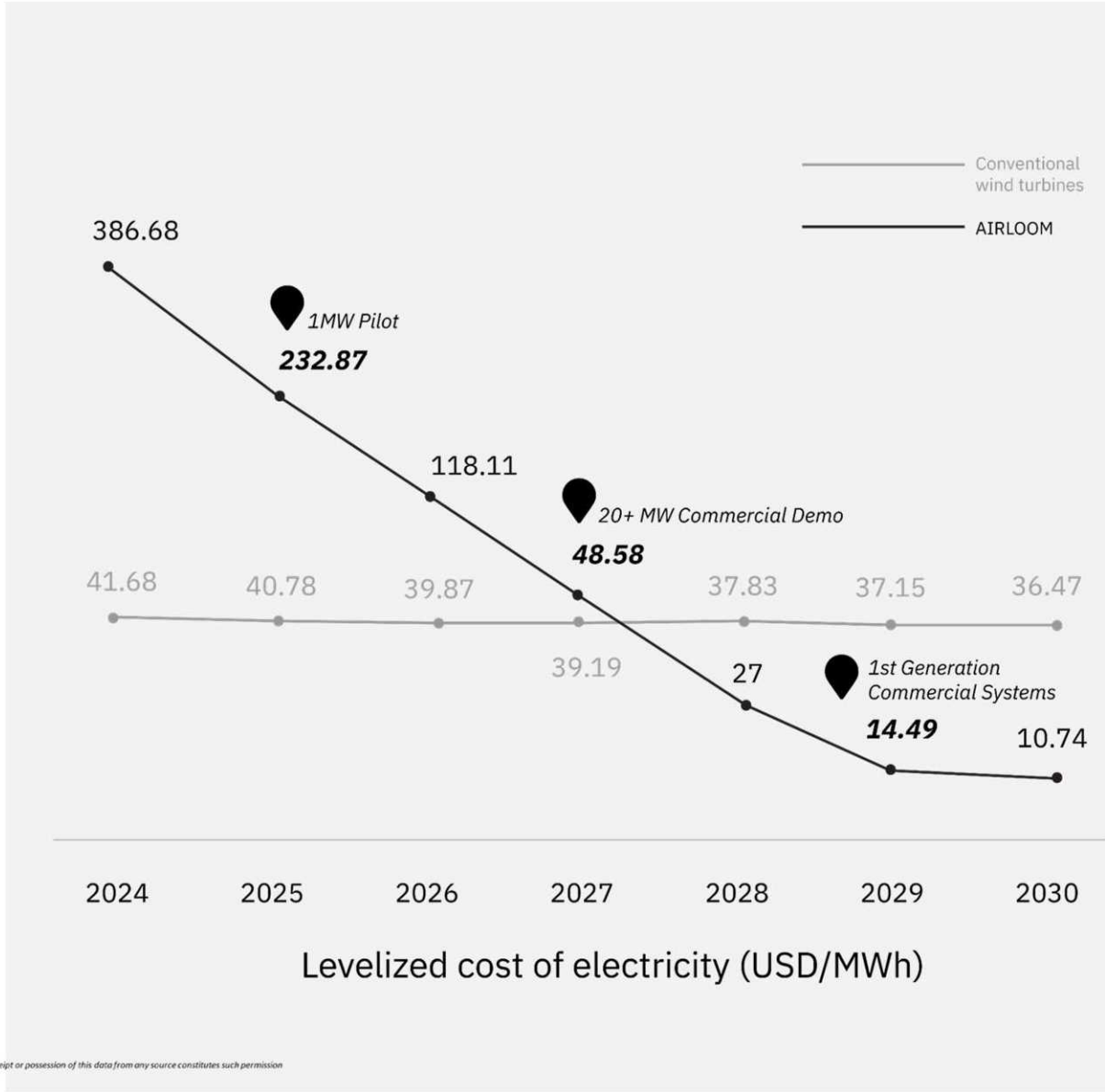


TECHNOLOGY OVERVIEW

# 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/files/default/files/wind\\_lcoe\\_elicitation\\_re\\_pre-print\\_april2021.pdf](https://eprints.lbl.gov/files/default/files/wind_lcoe_elicitation_re_pre-print_april2021.pdf)  
Airloom forecast from internal modeling that leverages NREL methodology, and input from outside consultants.

Proprietary / Confidential: Airloom's Proprietary and Confidential information may not be distributed or further disseminated without the express written permission of Airloom. Neither receipt or possession of this data from any source constitutes such permission

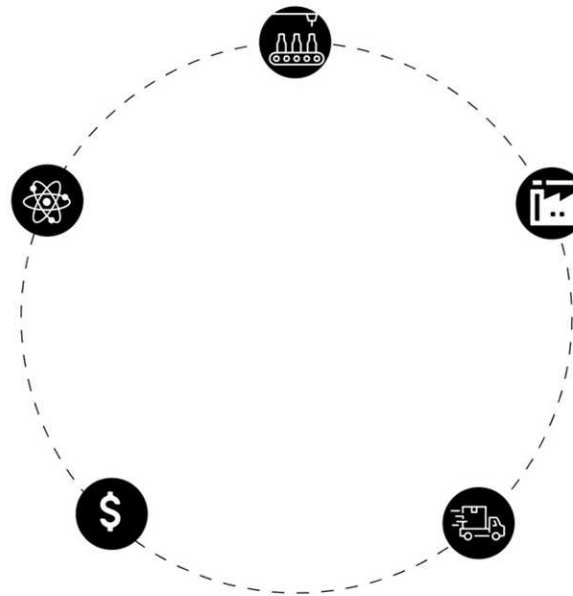
# How Can It Be So Low Cost?

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



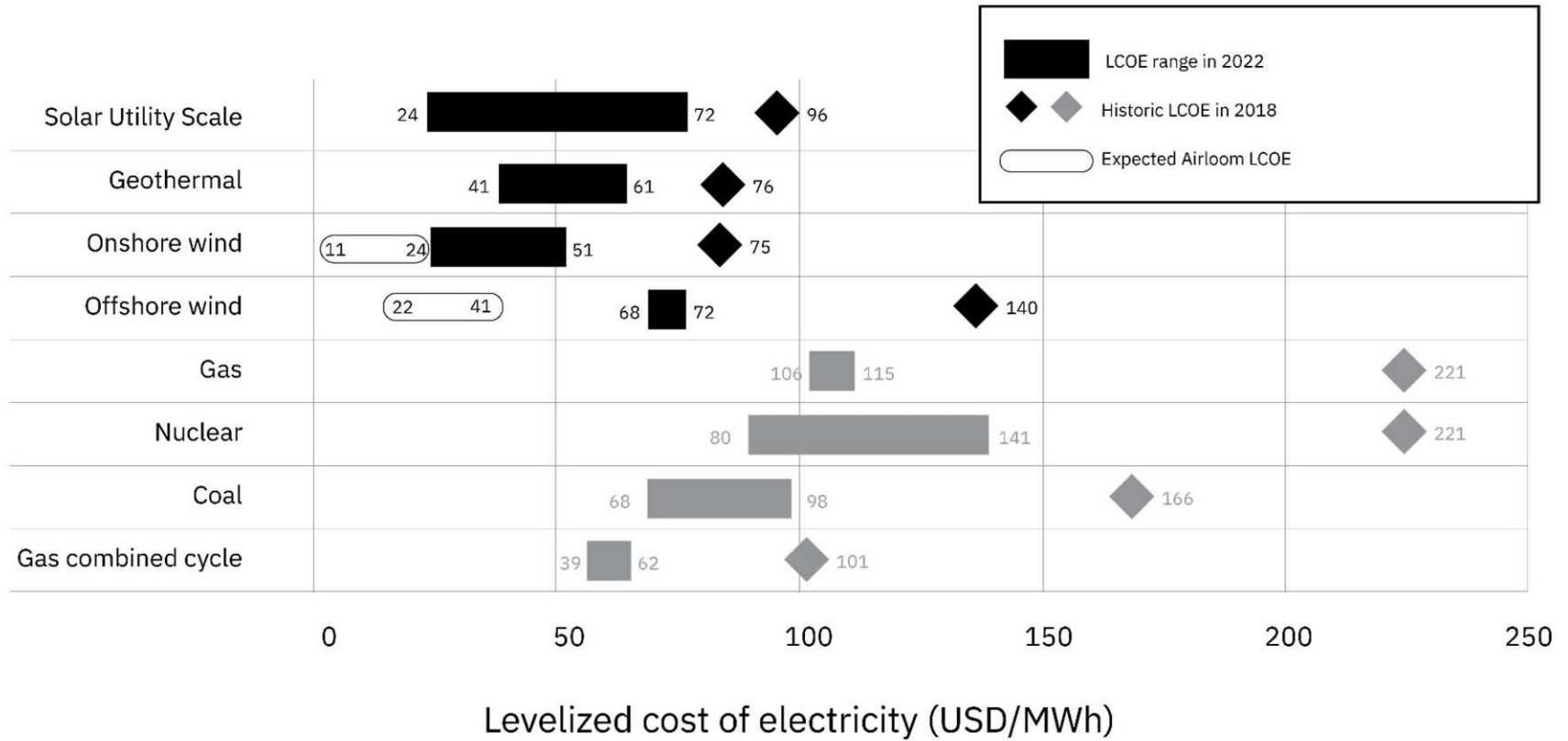
Mass Production of Human-Scale Parts  
Airloom uses low-cost, mass manufacturable components

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

*BOEING*

**Vestas®**

 Breakthrough Energy



  
**DNV**

 WovenEarth  
VENTURES

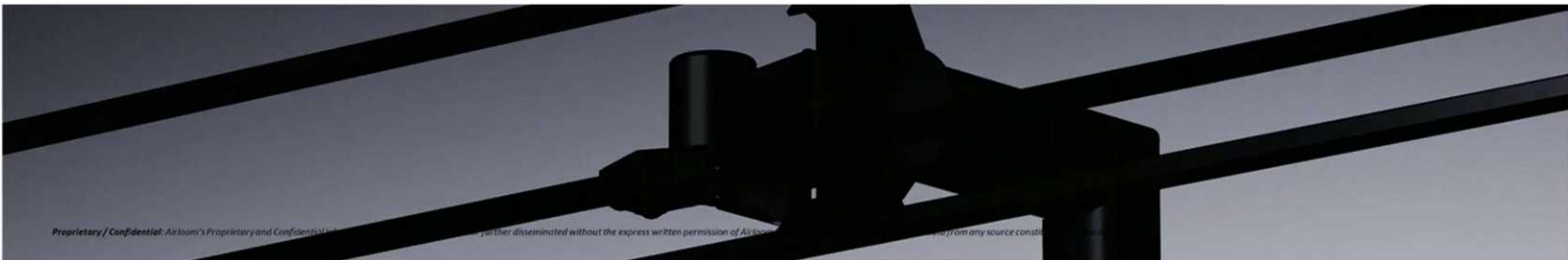
*Wyoming*  
BUSINESS COUNCIL



LOWERCARBON  
CAPITAL

  
ADIUVANS

**CROSSCUT**



Proprietary / Confidential: Airloom's Proprietary and Confidential Information. No part of this document may be further disseminated without the express written permission of Airloom Energy. All rights reserved. © 2018 Airloom Energy. All information from any source constitutes confidential information.

Thank You



airloom.energy