

TOBE ENERGY

Revolutionizing

Green

Hydrogen

The Next Leap Forward



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Pitch Deck | 2024

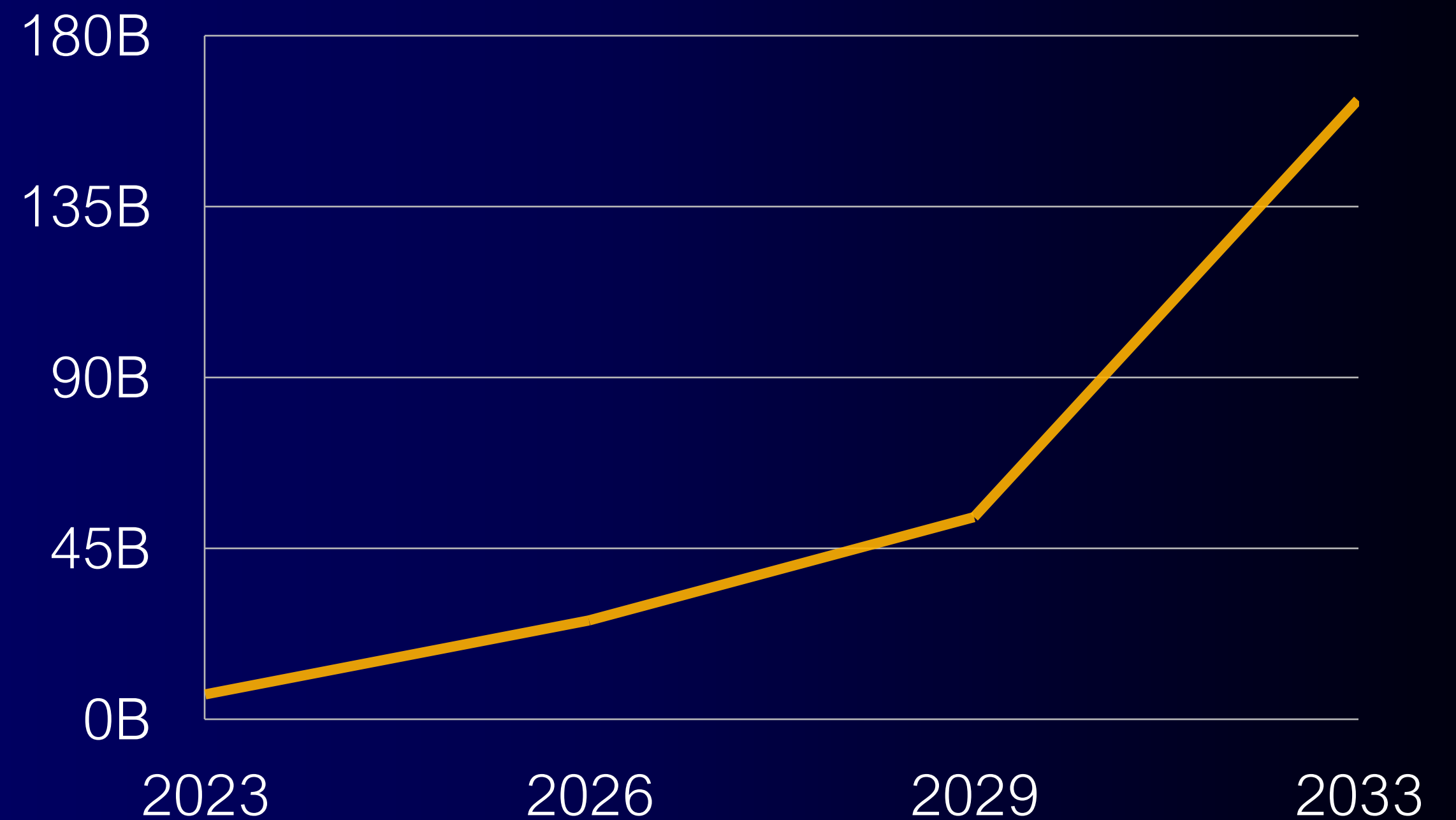
Green Hydrogen: Powering Tomorrow

Zero Emissions: The only fuel with zero carbon emissions.

Market Growth: Growing from \$6.3B to \$165B by 2033 (40% CAGR¹)

Support: \$8B U.S. funding; global push for hydrogen infrastructure.

Projected Market Growth



¹[GM Insights](#)

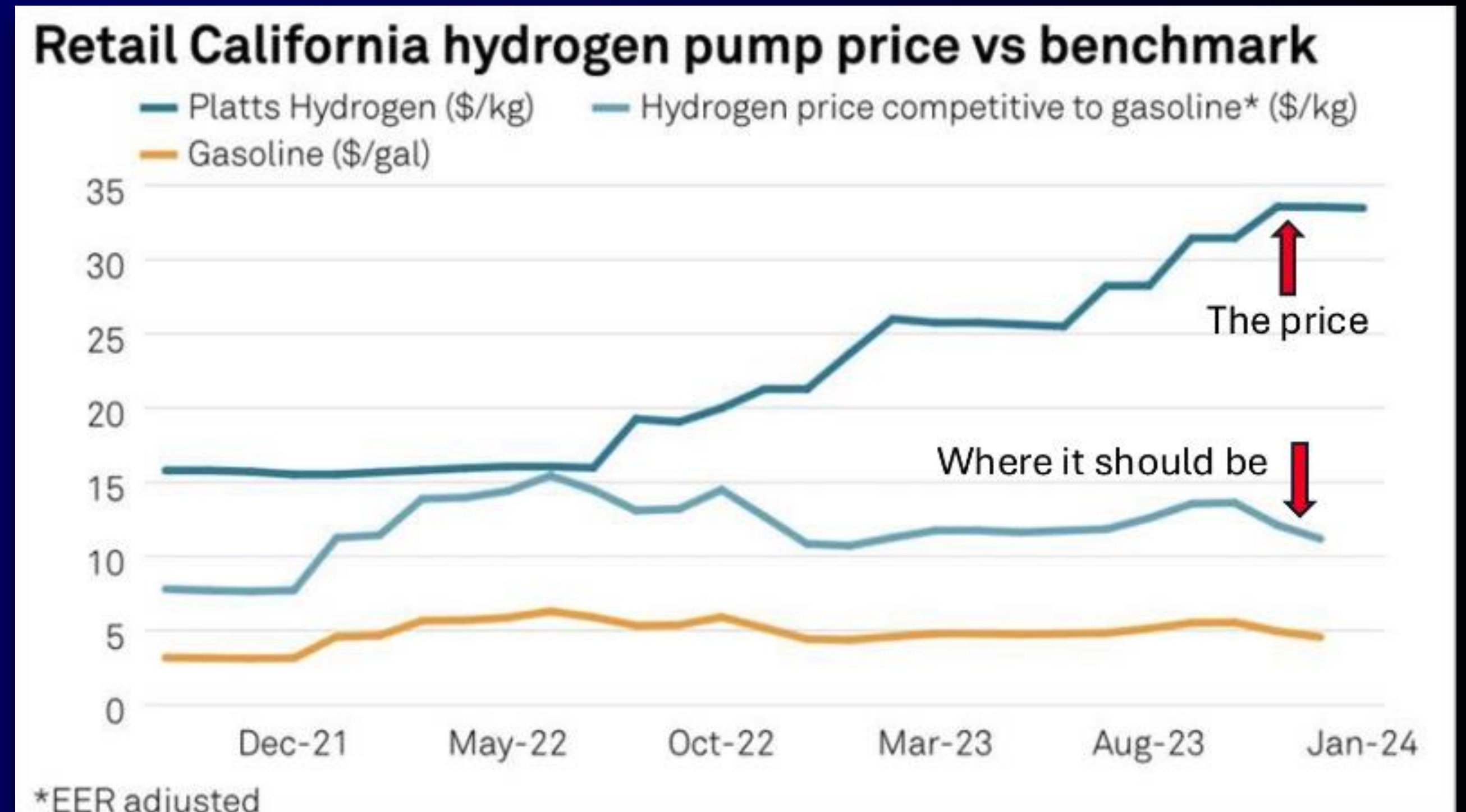


Problem: **Green** Hydrogen Costs Too Much

Current methods are inefficient, making hydrogen costly.

>50% energy wasted as heat during hydrogen production

DOE's \$1/kg target² by 2031 is impossible with current tech.



²[DOE Goals](#)



Solution: Reimagining Electrolysis with a new tech stack

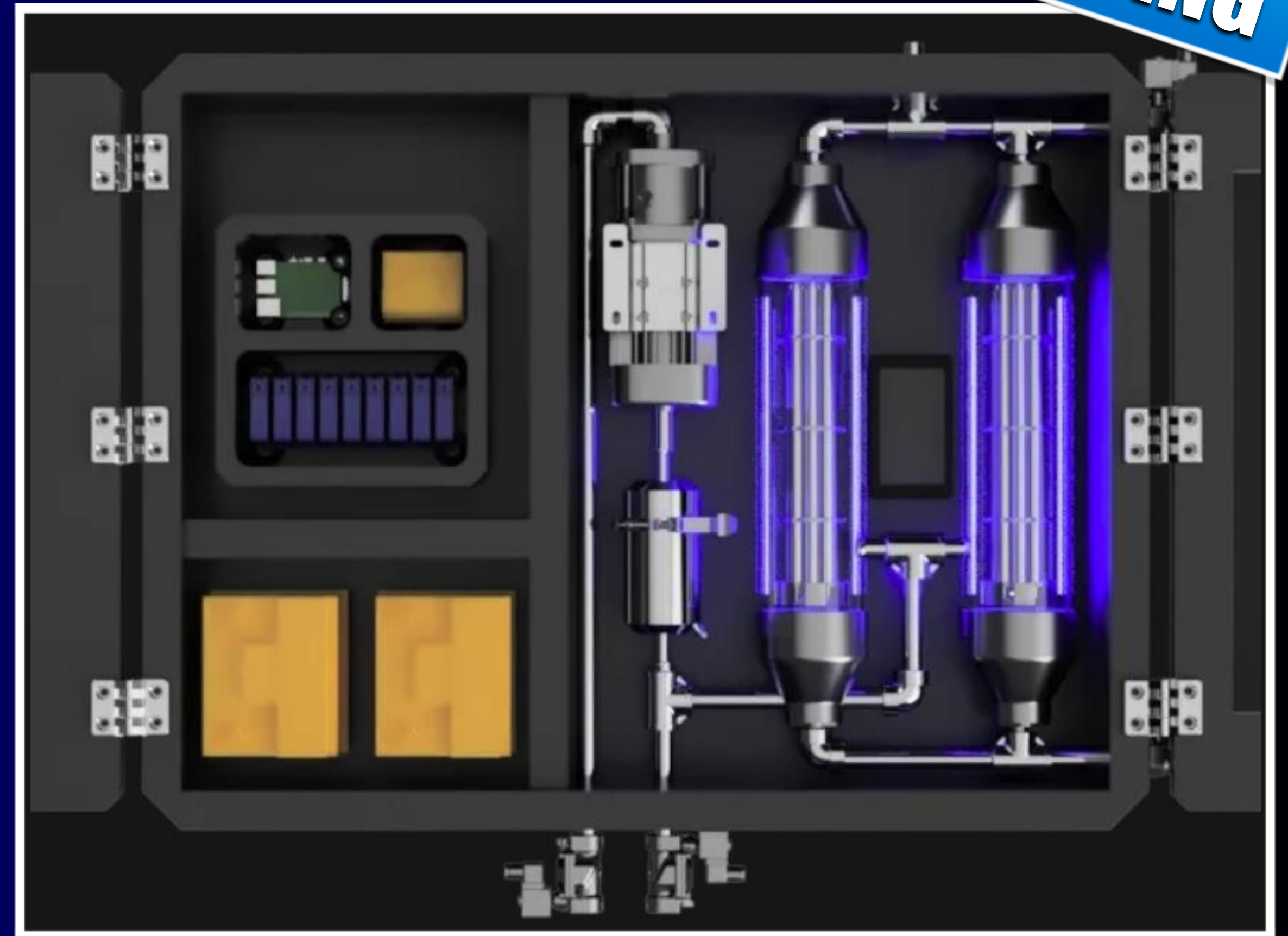
PATENT PENDING

Patent Pending: Built on LLC resonant power topology for maximum efficiency @ ~95%.

Zero Waste Heat Production.

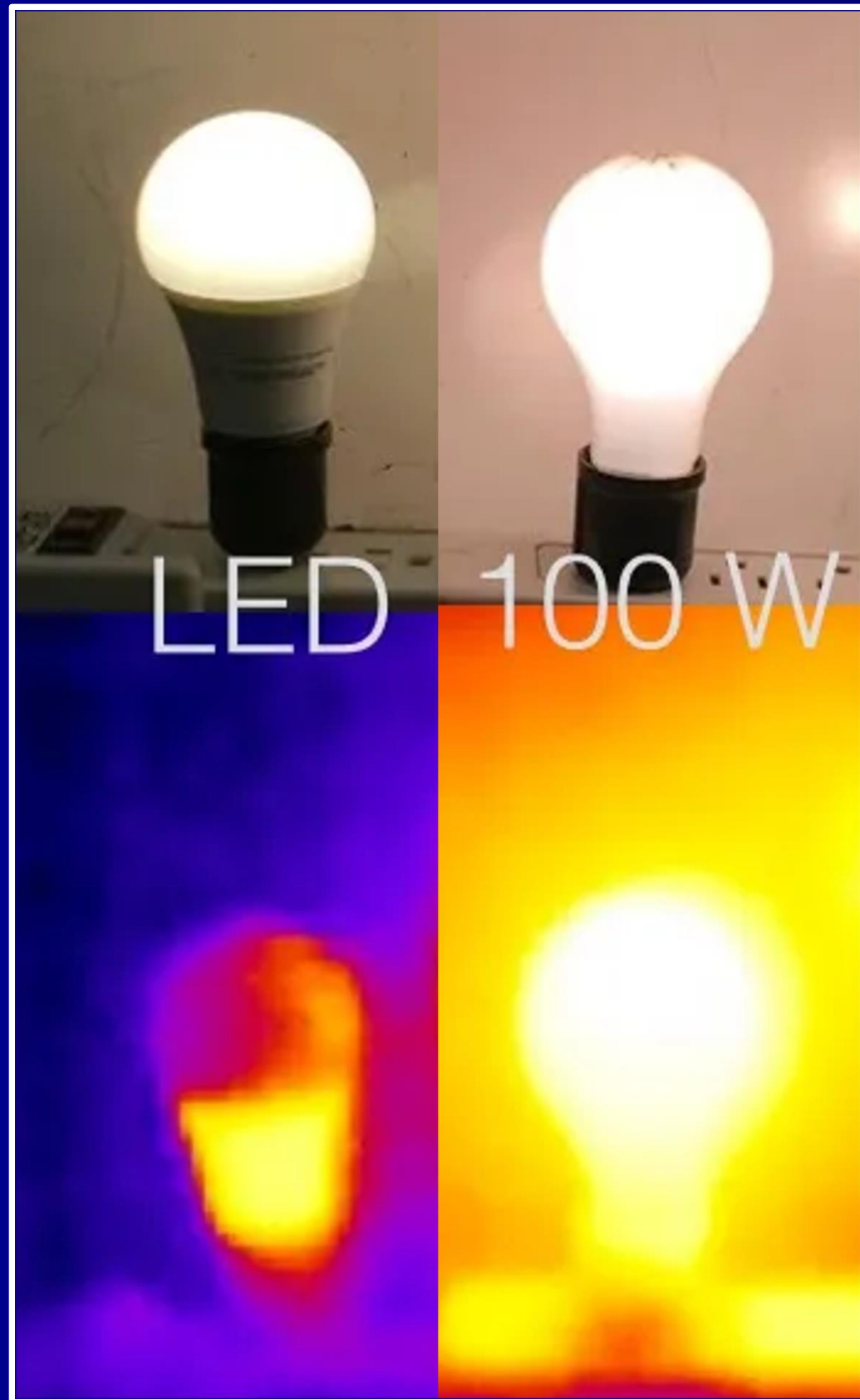
Tobe electrolysis reduces energy waste and **75%+ cheaper** than competitors³.

Proven Performance: 1,000+ hours of testing at pilot scale.



³[Tobe Whitepaper](#)

Sound familiar?

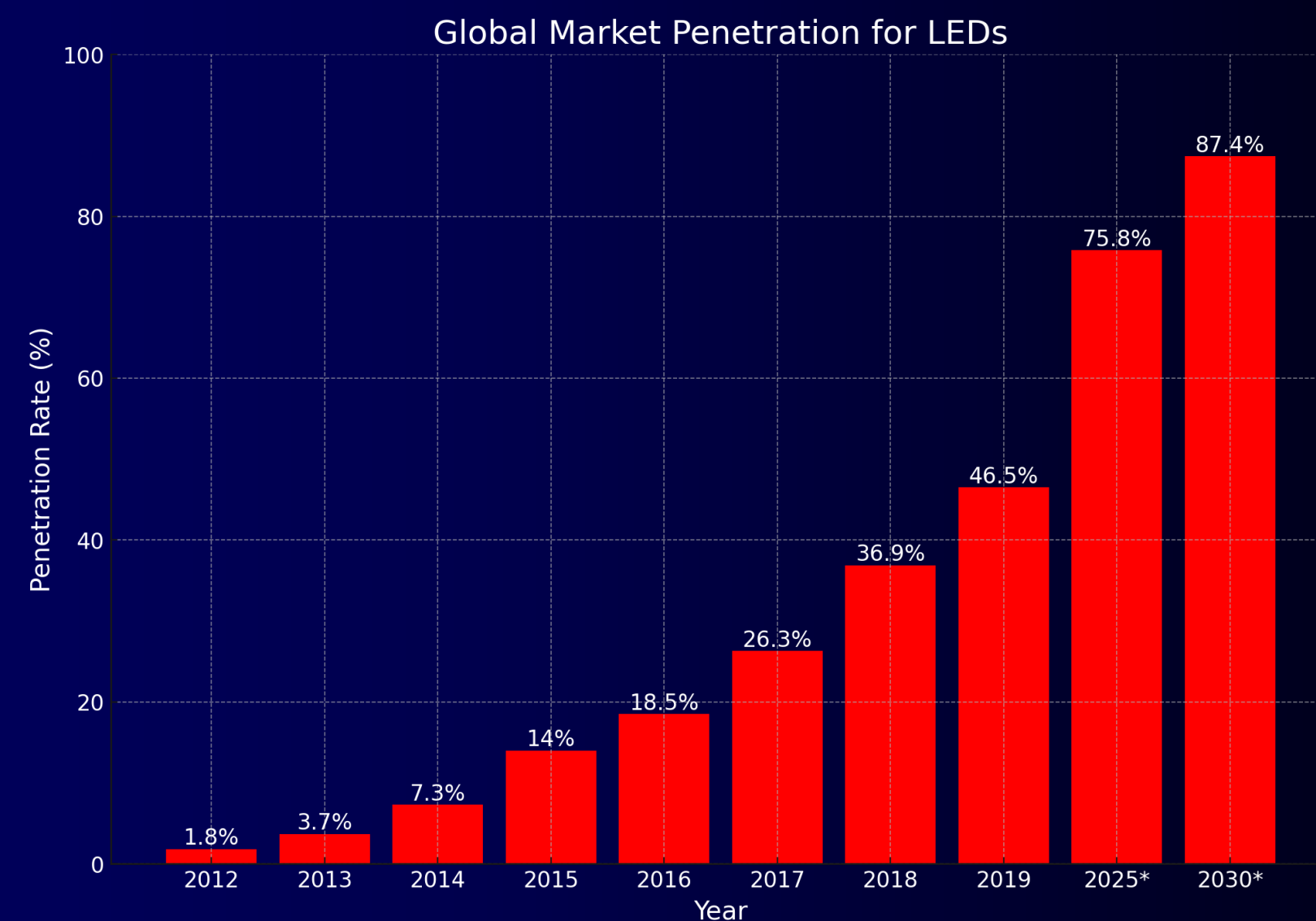


Waste Heat: 10W LED
vs. 100W Incandescent

Incandescent bulbs wasted over 50% of energy as heat.

LEDs reimaged lighting—cutting power use and costs by 90%+. Now, everyone uses LEDs.

*Tobe provides **the same scale of breakthrough** for green hydrogen.*



Product Roadmap

Q2 2024: Pilot scale (5kg/day).

Q2 2025: Commercial scale (25kg/day).

Q1 2026: Industrial scale (250+kg/day).

Q3 2026: Hydrogen-optimized applications launch.

power generators, fuel cells, combustion, & others

Q1 2027: Integrated packages.



The Team Making it Happen



Colby DeWeese: Founder & Inventor. Chemical Engineer with six years at Marathon Petroleum, led \$70M+ projects, managed 200 contractors, and delivered a 15-month project under contingency. Former Principal Process Engineer for zero-emission technology at Hydrogen Technologies LLC.

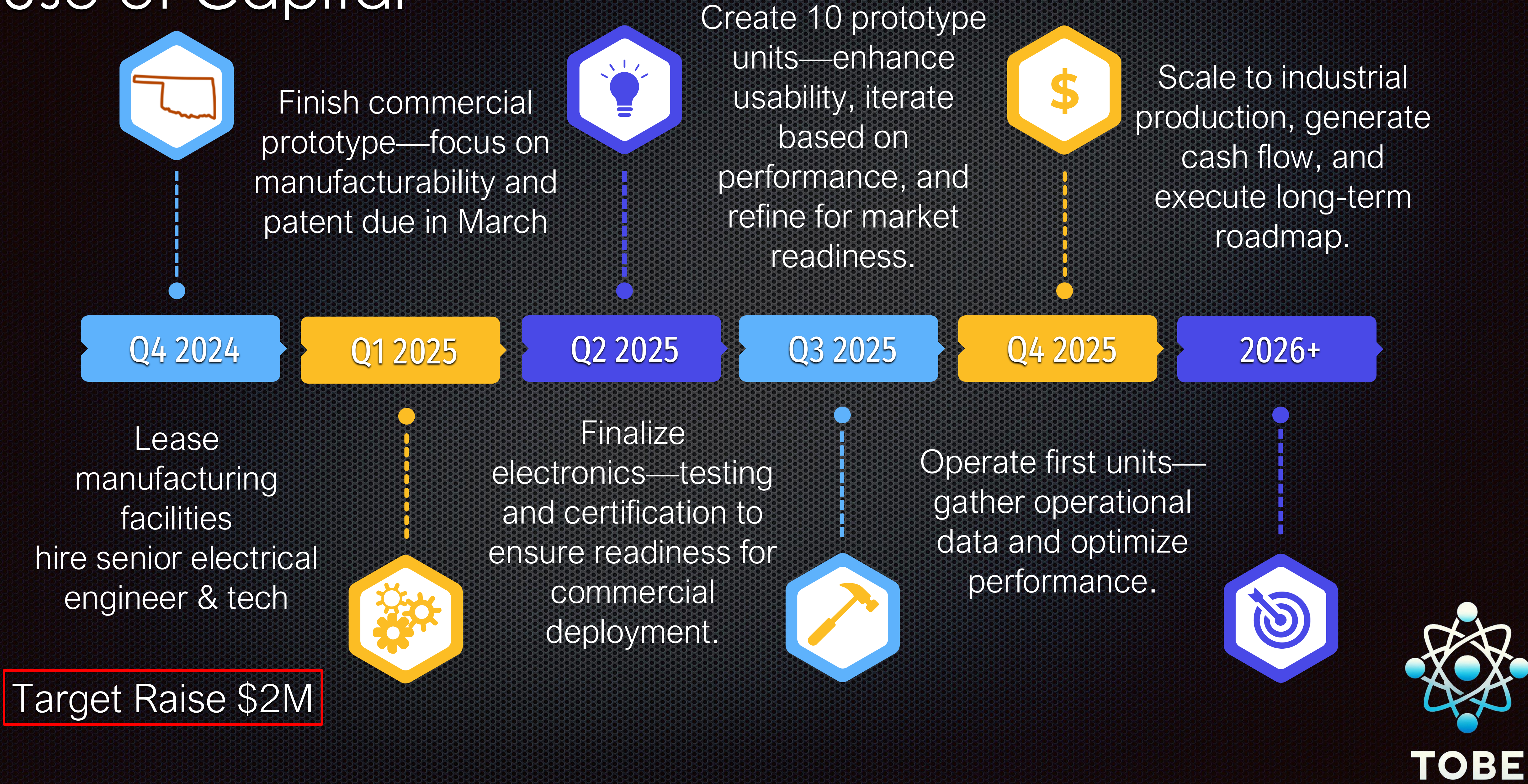
Caleb Lareau, PhD: Co-Founder & Strategic Advisor. Harvard PhD, Stanford post-doc, scientific founder with a \$60M biotech raise. Experienced in leveraging cutting-edge research to bring innovative solutions to market.



Louis Mounsey, PMP: Co-Founder. Chemical Engineer with extensive international experience in hydrogen adoption, focused on expanding hydrogen markets globally.



Use of Capital

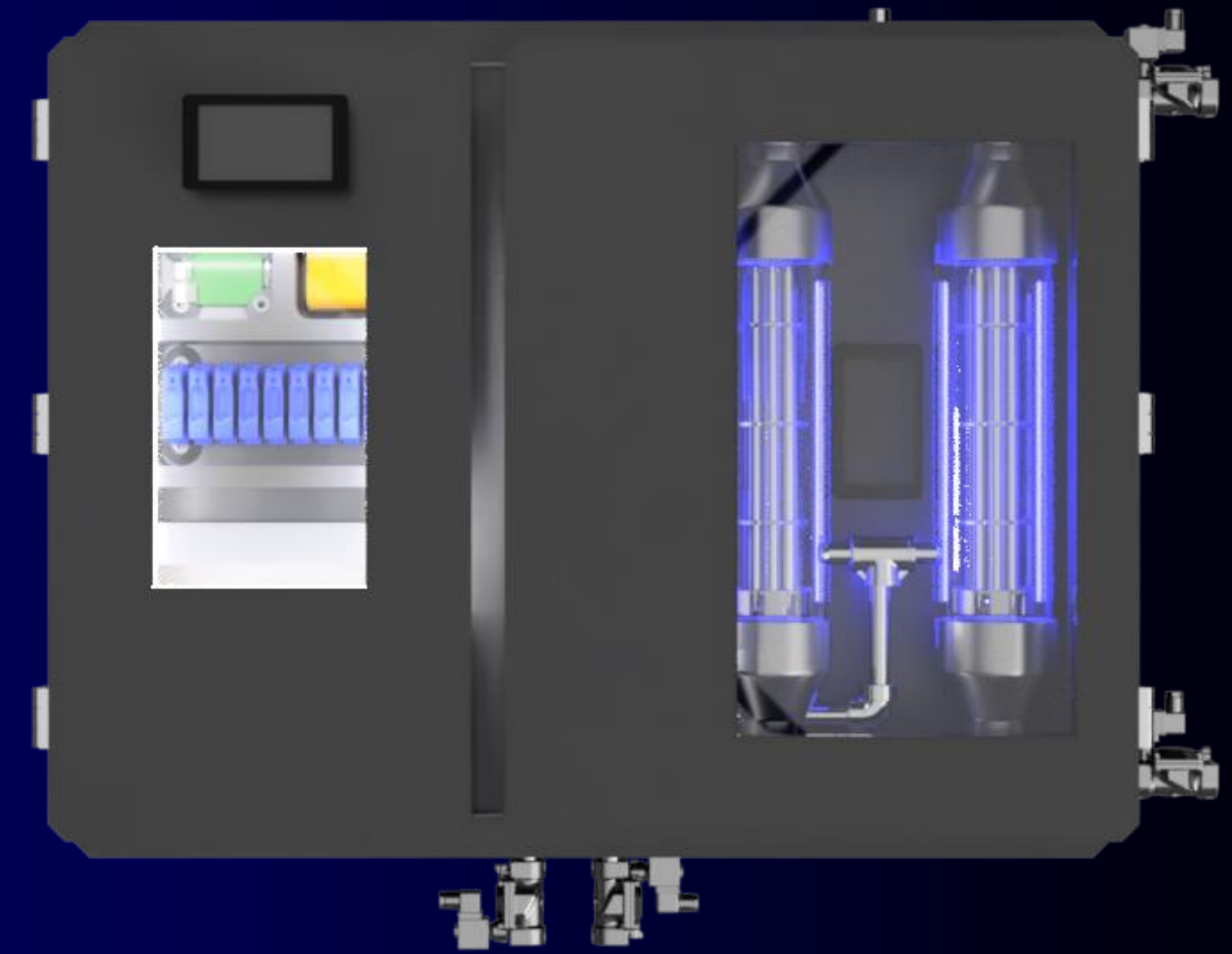


Early Revenue: Hydrogen Production While We Scale

Revenue During Testing: 10 x 25 kg/day prototype units producing **5,625 kg/month** of hydrogen (75% util.)

Cost Leadership: Our production costs rival Steam Methane Reforming (SMR), but with **zero carbon emissions**, providing a significant competitive edge.

Fast Scaling: By **generating revenue during R&D**, we accelerate growth and shorten the path to profitability, enabling a disruptive scale-up model.



Detailed engineering model of 25kg/day system

Profit Breakdown

Market Price	\$25/kg-\$40/kg
Production Costs	\$3/kg
Compression & Purification	\$2/kg
Profit	\$20/kg

Affordable **Green Hydrogen** is the future & we are leading the way

We're not just refining an old process—we're creating something entirely new.

Tobe: *Innovation today to power tomorrow.*



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Bonus: the LED Comparison-- Reinventing the Process



The Incandescent vs. LED Paradigm:
Current electrolysis companies think about improving the stack like improving the filament in an incandescent bulb—focusing on incremental improvements to a fundamentally inefficient process.

Our Approach: Unlike the competition that focuses on perfecting outdated methods, Tobe Energy has reimagined hydrogen production just like LEDs redefined lighting, through novel, high-efficiency power electronics and pulse operations.

We're rewriting what's possible with hydrogen electrolysis.

