

# Revolution on the Range: How Sprouting Gear Slashes Carbon Output in Feedyards

*Sprouting Gear slashes cattle feed emissions by 95% with on-site hydroponic fodder—cutting costs, land use, and boosting herd health and growth.*

RAMONA, CA, UNITED STATES, July 1, 2025 /EINPresswire.com/ -- As agriculture comes under increasing scrutiny for its role in climate change, Sprouting Gear Inc. is giving the livestock industry a powerful new tool: a feed system that slashes carbon emissions by more than 95% while improving cattle performance and lowering costs.



A close look at Sprouting Gear's barley fodder—showing root structure, shoot density, and the vibrant growth achieved in just 9 days.

“Our hydroponic barley fodder system isn’t just about growing feed—it’s about growing smarter,” said Paul Pluss, founder and CEO of Sprouting Gear. “By eliminating tractors, fuel, transport, and massive irrigation infrastructure, we’re [cutting the carbon footprint of feedyards](#) to a fraction of what it is today.”

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We’re replacing a carbon-heavy, land-intensive system with a clean, efficient, localized one, that’s not just good for the planet—it’s good for the bottom line.”

*Paul Pluss, Founder and CEO of Sprouting Gear Inc.*

## Carbon Emissions: A Hidden Cost of Cattle

The traditional cattle feeding model relies heavily on fossil fuels and heavy machinery—from planting and harvesting to transporting across long distances. This creates one of the highest per-acre emissions profiles in U.S. agriculture.

Sprouting Gear’s 3-stage vertical farming system flips the

model:

- No diesel-powered tractors
- No field irrigation
- No long-haul feed transport
- No tilling, spraying, or fertilizing

- Minimal packaging, waste, and spoilage

Instead, it produces fresh, living feed on-site, using a fully enclosed, automated hydroponic process. This approach reduces the carbon emissions per ton of feed by up to 95%.

“We’re replacing a carbon-heavy, land-intensive system with a clean, efficient, localized one,” said Pluss. “That’s not just good for the planet—it’s good for the bottom line.”



Cattle feed on fresh, nutrient-rich hydroponic barley fodder mats produced by Sprouting Gear's indoor system.

### A Triple Win: Cost, Carbon, and Cattle Health

Alongside emissions reductions, the system improves efficiency in three key ways:

- Lower Fuel & Labor Costs – No heavy machinery or field operations.
- Reduced Land Pressure – 93% less land required for the same feed output.
- Better Cattle Outcomes – Barley fodder improves digestion and nutrient absorption, often resulting in faster weight gain and lower water intake.

Sprouting Gear’s solution also aligns with emerging opportunities in carbon credits, sustainability grants, and ESG-focused financing, making it a smart investment for forward-thinking ranchers.

### An Industry in Transition

With global pressure mounting to reduce agricultural emissions—and beef production in particular—Sprouting Gear is proving that innovation doesn’t mean compromise. It means transformation.

“We don’t believe sustainability is a burden,” Pluss said. “We believe it’s a competitive advantage.”

[Sprouting Gear’s hydroponic fodder systems](#) are available through its licensing program, allowing producers to build scalable, carbon-reducing feed production facilities customized to their herd size and operational goals.

About Sprouting Gear Inc.

Sprouting Gear is redefining how cattle are fed in the 21st century. With its proprietary hydroponic barley fodder technology, the company empowers feedyards to cut emissions, save water, lower costs, and produce healthier livestock feed with year-round reliability.

To learn more or request a carbon impact analysis, visit: [www.sproutinggear.com](http://www.sproutinggear.com)

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