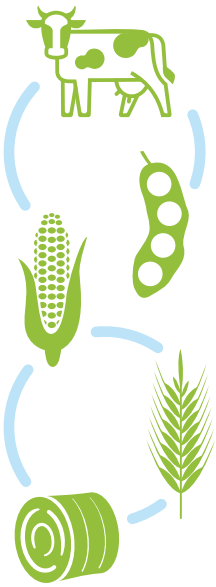
ABC Member Profile

Oakmulgee Dairy Farm

The oldest continuously operated dairy farm in Virginia is now home to one of the country's newest organics recycling and renewable energy facilities.

Oakmulgee Dairy Farm, owned by Larkin Moyer and his sons Jeremy and Brandon, is a fifth-generation family farm in Amelia Court House, Virginia that has never stopped innovating. Over the past decade, the Moyer family has introduced robotic milking systems, built a climate-controlled, tech-forward barn, installed solar to power operations, and adopted no-till and regenerative practices to improve soil health.



That same commitment to innovation now extends to a partnership with Vanguard Renewables, which developed, owns, and operates an on-site anaerobic digester and advanced depackaging facility. The system is **designed to divert more than 100,000 tons of organic waste annually from landfills**, processing it alongside the farm's manure to produce approximately **270,000 MMBtu of pipeline-quality renewable natural gas (RNG)** each year.

The RNG produced at the farm is used to support AstraZeneca's Maryland biopharmaceutical manufacturing operations, advancing the company's decarbonization goals. The project also delivers direct benefits to the farm, creating a new, stable revenue stream while providing separated solids for bedding and nutrient-rich digestate to reduce reliance on conventional fertilizers and improve soil health.

Commissioned in April 2026, the project is a strong example of how new infrastructure can enable closed-loop systems that connect waste diversion with local energy production and regenerative agriculture.



> "If you don't embrace technology, you wake up one morning and find yourselves left behind. We believe that the combination of technology, herd health, and regenerative farm practices is the secret to longevity and success."
>
> – **Jeremy Moyer**,
> Co-Owner, Oakmulgee Dairy Farm

> Our relationships with farm partners are key to bringing our circular model to life. The impact extends beyond the energy produced—diverting organic waste from landfills, creating value for local communities, and strengthening the long-term viability of America's farms.
>
> – **Mike O'Laughlin**, CEO of Vanguard Renewables

Fast Facts

Location: Amelia Court House, VA

Farm Size: 350 head of dairy cattle

Biogas Production: 270,000 MMBtu annual capacity

Owner/Operator: Vanguard Renewables

Feedstock: Dairy manure and food & beverage waste

Product: Renewable Natural Gas (RNG)

Offtake Partner: AstraZeneca

Joint Venture Partner: TotalEnergies

Completed: April 2026



Photo courtesy of Dairy Alliance




Photo courtesy of Dairy Alliance