

# GRASSROOTS ENERGY

## Achieving Net Zero Involves Everybody

There is simply no escaping the energy intensity of the cold chain. A significant portion of Lineage's carbon footprint is tied to energy used at temperature-controlled warehouses. But while Lineage is investing heavily in renewables, we can't rely solely on technology to meet our goal of net zero carbon emissions by 2040.

That's why Lineage is building a culture of conservation.

*"Our Team Members recognize that an energy efficiency mindset must be factored into everything we do. As that understanding becomes embedded in our DNA, we believe our pathway to being carbon neutral has never been clearer."*

**ERIC KRUPA**  
VP, Global Engineering

## LET'S GO

### On a Facility Energy Evaluation

At Lineage, we support local conservation efforts with our Facility Energy Evaluations. A mixture of education, inspection and team building, a Facility Energy Evaluation helps the local maintenance team identify small fixes that can make a huge impact.

*"Our goal is to provide the road map to efficiency, but it's their sense of pride in their craft that keeps the facility humming after the evaluation is over."*

**ROBERT FORMOSO**  
Energy Manager

**THE GOAL**  
Close the knowledge and culture gaps that lead to unintentional energy inefficiency.

**THE OUTCOME**  
Team members take ownership of everyday efficiencies and create a culture of conservation.



## EFFICIENCY IS EVERYWHERE

### Especially on the Roof

The condition of the roof has a direct effect on energy consumption. Poor conditions can lead to moisture buildup, water infiltration and degraded insulation—all of which affect the performance of the building envelope.

**WATCHOUTS**  
Standing water, visible frost, peeling or separating seams, pipe slope, condition of insulation and piping, abnormal valve conditions

*"It's great when team members realize that the opportunities to be more energy efficient are everywhere."*

**AER TEALE**  
Director of Engineering and Maintenance

## READING THE ROOM

In a temperature-controlled warehouse, accuracy is essential. Non-operational or out-of-calibration sensors send incorrect information to the compressor controller, which can lead to wasted energy. But optimizing the sensors helps the facility stay efficient—even in challenging weather or during spikes in demand.

**WATCHOUTS**  
Pressure reading accuracy, compressor operating parameters and settings

*"Each facility has its own unique opportunities depending on location and customer demands. It is up to us to identify those opportunities to help mitigate the impact of our operations on the environment."*

**CHRIS THURSTON**  
Director of Energy and Sustainability

## EVERY ELECTRON COUNTS

The results of a Facility Energy Evaluation can be as significant as the need to conduct them. Consider that 60%–90% of a temperature-controlled warehouse's total energy use goes to refrigeration.\* But after a successful Facility Energy Evaluation, the performance of the refrigeration system can be improved by anywhere from 20%–40%.<sup>†</sup>

\* Refrigerating Engineers & Technicians Association (2018). Industrial Refrigeration Energy Efficiency Handbook Energy Efficiency Handbook.

† Cold Chain Federation (2020). Energy Efficiency Guide. Issue 1.

*"By putting people first, our engaged and empowered teams are driving energy efficiency results. It's not one person or one team, it's one Lineage."*

**AER TEALE**  
Director of Engineering and Maintenance

## LEADERS IN COLD CHAIN EFFICIENCY

Facility Energy Evaluations are only part of the story. At Lineage, we're on a mission to create a more sustainable food supply chain. Learn more about our commitments, our investments and our philosophy here:

[SUSTAINABLE WAREHOUSING](#)