



# KOCH COMPANIES ROAD TO SUSTAINABILITY





# Sustainability Commitment



Koch Companies is committed to sustainability and making environmentally conscious transportation decisions. We are dedicated to improving fuel efficiency and embrace innovative technologies that reduce our carbon footprint. We understand that a sustainable approach to transportation is essential for our planets well-being and for future generations.

Our commitment to sustainability extends to our trucks, trailers, and facilities by:

- Regularly investing in new equipment that reduces fuel consumption
- Installing aerodynamic kits on our trucks and trailers to reduce consumption and lowers emissions
- Implementing sustainable practices in our facilities to energy saving options

Since 2021, our carbon, NO<sub>2</sub>, and black carbon emissions have been decreasing:

- Carbon emissions have reduced by 8%
- NO<sub>2</sub> emissions have reduced by 19%
- Black carbon emissions have reduced by 15%



Since 2021, we have achieved a significant reduction in idle times of over 46% and we are continuing to take sustainable strides with our technology.



## Sustainability Goals

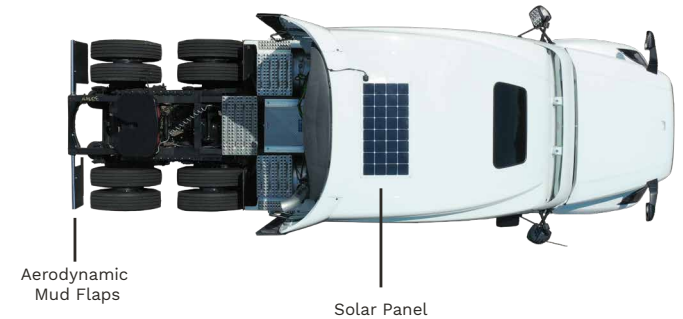
- Reduce emissions 5% per truck by 2030
- Reduce total emissions 20% by 2035
- Partnering with eco-conscious suppliers and customers, working collaboratively to advance sustainable transportation solutions
- Improve load efficiency by maximizing trailer capacity to reduce the number of trips and overall carbon footprint

# Sustainability in our Trucks

Our fleet is comprised of late model Volvo, International, Kenworth, and Freightliner tractors with the latest load-tracking technology with the average age of 14-16 months helps 2nd and 3rd markets improve sustainability.

## Efforts in support of sustainability

- All tractors are three years old or newer
- All equipment equipped with LED Lights
- Solar Panels in sleepers to help maintain batteries and power bank systems
- Auxiliary power units installed in all trucks
- Low rolling resistant tires to lower fuel consumption
- Light weight oil for fuel efficiency
- Predictive cruise control to maintaining cruise control to help efficiency in fuel consumption
- Advanced powertrains: cutting-edge drivetrain technology ensures peak performance while minimizing emissions.



## Fuel Management software - Samsara

Improve driver behavior and reduce the carbon footprint.

Using Samsara to help decrease unnecessary fuel use through real-time visibility into driver behavior and insights into route performance.

## Idle Management

We have installed APUs in our fleet to reduce idling. APU's use 75% less fuel than tractor engines to provide HVAC functions, keep batteries charged and provide electricity for appliances within the vehicle. All other sleeper trucks have smart engine idle technology to only run the tractor engine when necessary

## Speed Governors

Limiting the top speed of our trucks while encouraging drivers to use cruise control, allowing them to increase speed by 2-3MPH while using cruise control. This enhances safety by allowing collision mitigation systems and adaptive cruise control to work more effectively all while improving fuel economy.

## Design Efficiency

Aerodynamic designs within part of our fleet that can greatly improve fuel-efficiency up to 16%. The Volvo VNL 860 is built on fuel efficiency, driver productivity, safety, and uptime.

Mirror Camera Monitor Systems in our Kenworth fleet enables greater safety by reducing blind spots, expanding field-of-view, while enhancing visibility in challenging environments. Additionally, can reduce drag which Improves fuel efficiency and potential fuel savings.



## Sustainability in Our Trailers

At Koch we invest in top of the line equipment and install special flaps, tails and under trays to our trailers to reduce drag and fuel consumption.

### Top Kits

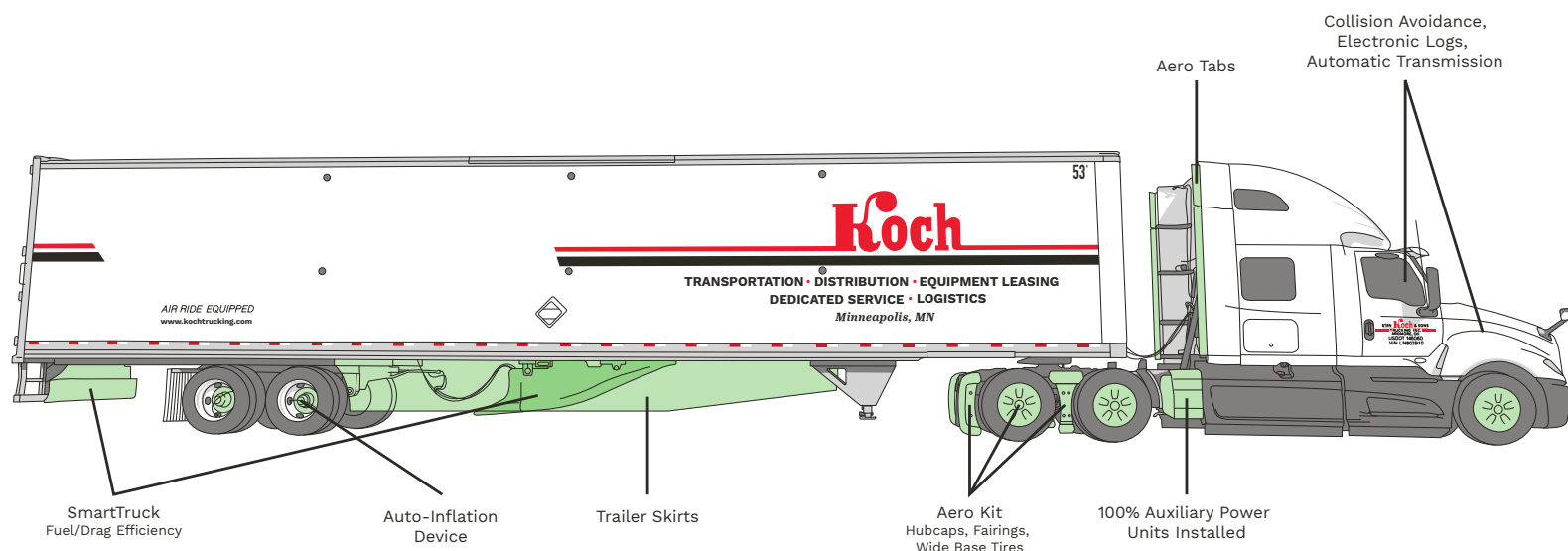
Innovative solution that reduces drag and reduces fuel consumption by at least 4.44% at highway speeds.

### Edge Flats

Tightening the gap between our trailers and tractors to cut down wind resistance and boost fuel economy while reducing fuel consumption by 10.49% at highway speeds.

### Trailer Skirts & Mud Flaps

Trailer Skirts reduce fuel consumption by 7.3%, Aerodynamic mud flaps to save fuel and improve maintenance.





## Sustainability in our Facilities

Implementing sustainable practices in facilities by replacing lighting to LED lighting and when renovating switching to energy saving options.

- LED and motion activated lighting at Koch facilities
- During renovations to a site we replace switches and lights with energy saving options and replace bathroom fixtures with water saving options
- We recently replaced almost all Roof Top Units at our Corporate location with energy efficient units
- We consider any watering requirements when deciding any trees or bushes for Koch sites
- We have generators at all major sites to help with any needed load shed during peak energy needs
- Warehouse building in California has solar panels that feed into the local power grid
- Converted 95% of warehouse material handling equipment to electric
- Recycling bins and balers for recycling at warehousing locations
- Cutting down on single-use products, by supplying our facilities with a water bottle filling station offering employees and customers access to clean and filtered water.

