



STEELE COUNTY BOARD OF COMMISSIONERS WORK SESSION AGENDA

Administration Center - 630 Florence Avenue – Owatonna, MN 55060

Steele County's Mission:

Driven to deliver quality services in a respectful and fiscally responsible way.

TUESDAY, NOVEMBER 8, 2022 AT 3:00 PM
County Boardroom, Steele County Administration Center

Agenda

1. Call to Order
2. **Presentation:** Kruckeberg Services - Circular Economy/Emission Reduction Initiative
Lisa Callahan, Senior Project Developer
Trevor Kruckeberg, General Manager
3. SE Service Cooperative Dividend
4. 2023 Budget
5. Other business

Adjourn

Disclaimer: This agenda has been prepared to provide information regarding an upcoming meeting of the Steele County Board of Commissioners. This document does not claim to be complete and is subject to change.



Sustainability Proposal
Circular Economy *Renewable Initiative*

Who We Are

- Kruckeberg Industries – Long-standing, Minnesota-based company
- Kruckeberg Industries – 11 companies, including Kruckeberg Services
- Kruckeberg Services –
 - Growing residential and commercial disposal company built on superior customer service
 - Strategic repurpose/waste services/Innovative supply chain management
- **Development Proposal** – Zero emission strategy for food manufacturers



Industrial Process - Plastic Reuse/Recycling

Repurpose: First step in the process



55 Gallon Onion Barrels



- Material Examples: Barrels/Totes/Trays/Belts
- Repurpose industry increases as reuse methodology becomes “regular-way” operations

Plastic Recycling: Recyclers need partners to obtain, collect, and separate quality plastic feedstocks

- Plastic Partnerships



***We offer a dedicated fleet for both customers and partners/offtake side

Supply Chain Redirection Strategy

Industrial Sorting / Separation – Reduce Emissions

Repurpose Services



Implement Separator System



No Landfill – Recycled Metal



Ability to separate 35 tons an hour

Driver: Obtain Organic Feedstocks

Organic Separation: Anaerobic Digester Partnership

Organic waste – Endless List

- Meat waste -> Fuel
- Meat / Oil -> Fuel
- Powder -> Fuel
- Vegetable -> Fuel
- Fruit -> Fuel
- Starch -> Fuel



California's SB 1383 - To reduce organic waste disposal (landfill)
75% by 2025, other states will follow

Industrial Plan and Proposal

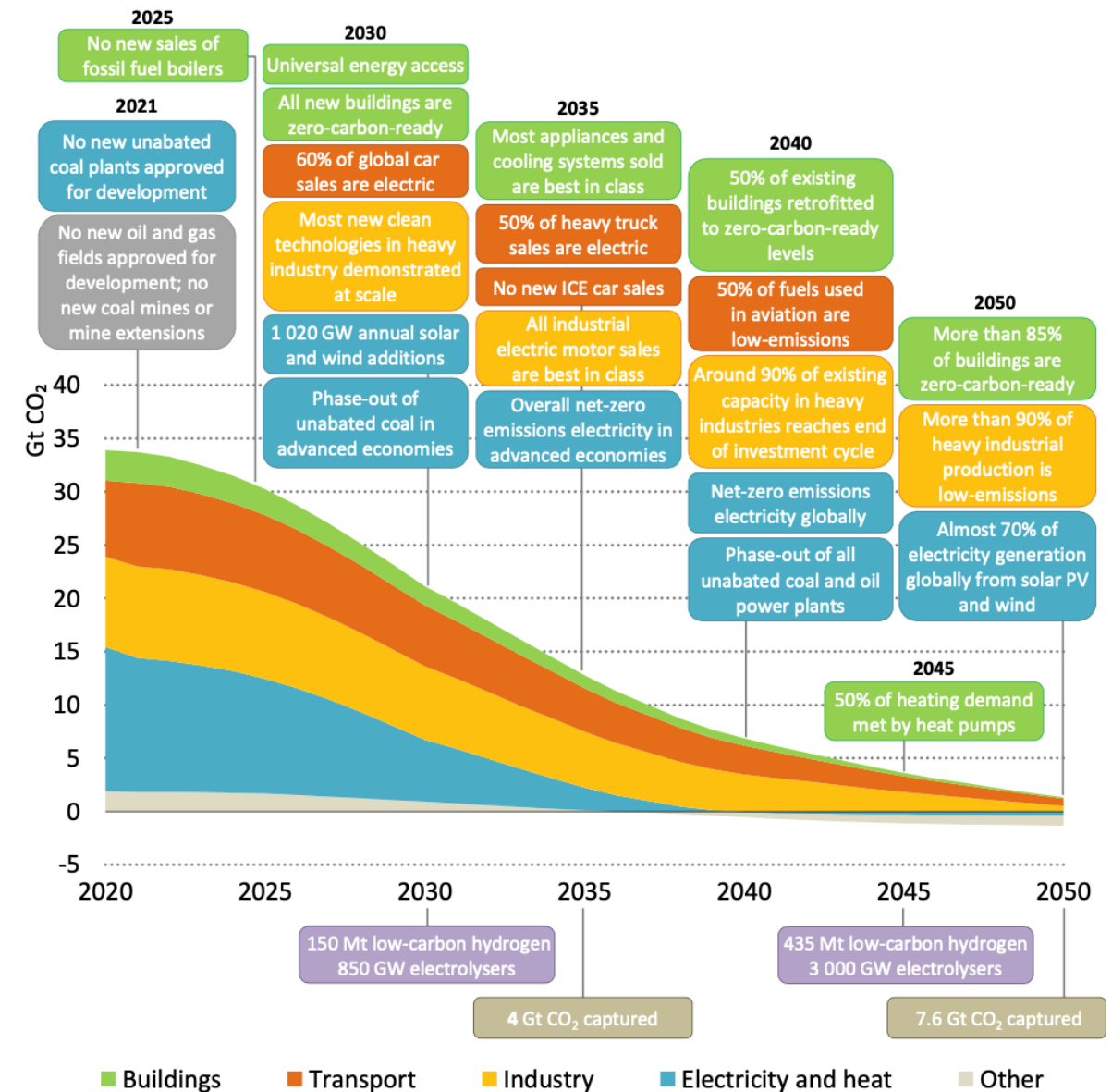
- Strategic Growth – Test and demonstrate process to produce quality feedstocks
- Building Requirements – Current facility with redesign, subject to permit and approval
- Onsite – No material chemical processing or changes
- Organic Separation – Provide a contamination-free renewable waste solution for food manufacturers
- Anaerobic Digester Partnership – Provide organic feedstock to local bioenergy plant/wastewater
- Supply chain and fleet are abundant for development
- Demonstrate and collaborate with plastic recycling partners

Market Driver

NZE – Limitless Demand For Feedstocks

- 2022 – Renewable energy is now 30% of all power generation, it has shifted
- 2025- No new emission-intensive development
- 2030 - New/clean technologies in heavy industry demonstrated at scale
- 2040 - 50% fuels used in aviation are low-emission (SAF) – largest constraint is available feedstocks
- **Waste evaluation to generate feedstocks is an untapped industry**

Figure 4.1 ▶ Selected global milestones for policies, infrastructure and technology deployment in the NZE



Summary

- Central location - Supply chain and procurement services throughout entire waste circle
- Our metrics estimate a 40% reduction of food manufacturing waste
- Circle Economy: Reduction in waste streams, increase in recycling opportunities
- Zero Emission Strategy – Organics diverted and possibly accretive
- Win, Win: Full Circle is the answer!