



# An Idea with RNG

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# Apologizes

We could not find a suitable presenter for this topic.

# Renewable Natural Gas (RNG)

- Decarbonization
- Reuses 85% of carbon emission
- Used in CNG and LNG vehicles

# How it works

1. Collect the organic waste
2. Capture the green house gases
3. Clean and condition the gas
4. Consume the RNG



# The Concept

Fuel  
Buses



Capture  
waste in a  
digester

Clean and  
condition  
RNG

Collect food  
waste from  
cafeterias

# Food Waste

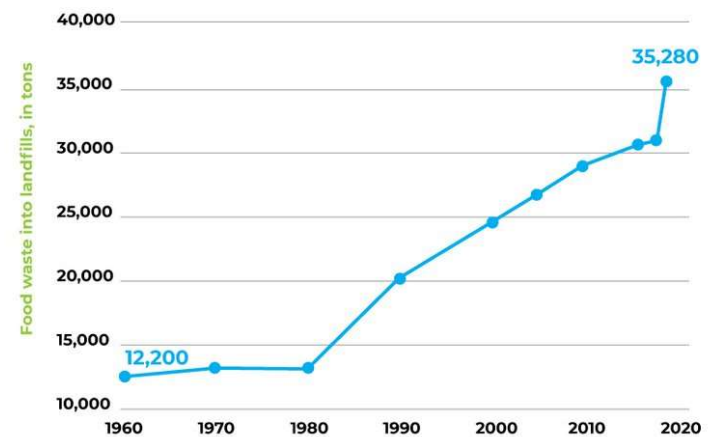
1. Food waste in the landfill
2. Food waste of cafeterias
  - 530,000 tons / year
  - 97,568 public schools
  - 5.43 tons / school / year
  - (10,864 pounds)
  - (40.35 pounds / school / school day)

## A Growing Challenge: Food Waste in Landfills



The amount of spoiled food going to landfills has increased dramatically in recent years. As food waste breaks down, it emits methane, which is a naturally occurring, but potent and harmful greenhouse gas.

**RNG projects** capture this methane from existing food waste, animal manure, wastewater sludge and garbage, and redirect it away from the environment, **repurposing it as clean energy** to fuel, heat and power our vehicles, homes and businesses.



Source: U.S. Environmental Protection Administration © 2021 The Pew Charitable Trust

# More Figures

- 1 Bus at 60 Gallons of Diesel
  - 8,352.6 Cubic feet of RNG
  - 9.66 pounds of waste / day
  - 30 days
- 4 Buses from 1 Cafeteria

# Items to Consider

1. True amounts needed and generated
2. Education programs and collection
3. Space for digester and infrastructure
4. Buses / equipment
5. Trained staff
6. How to fund it



“

I am not the expert. I'm only  
planting the seed.

J. Ben Finley

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# **I can help connect you with experts!**

J. Ben Finley

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