



# BRIGHTMARK

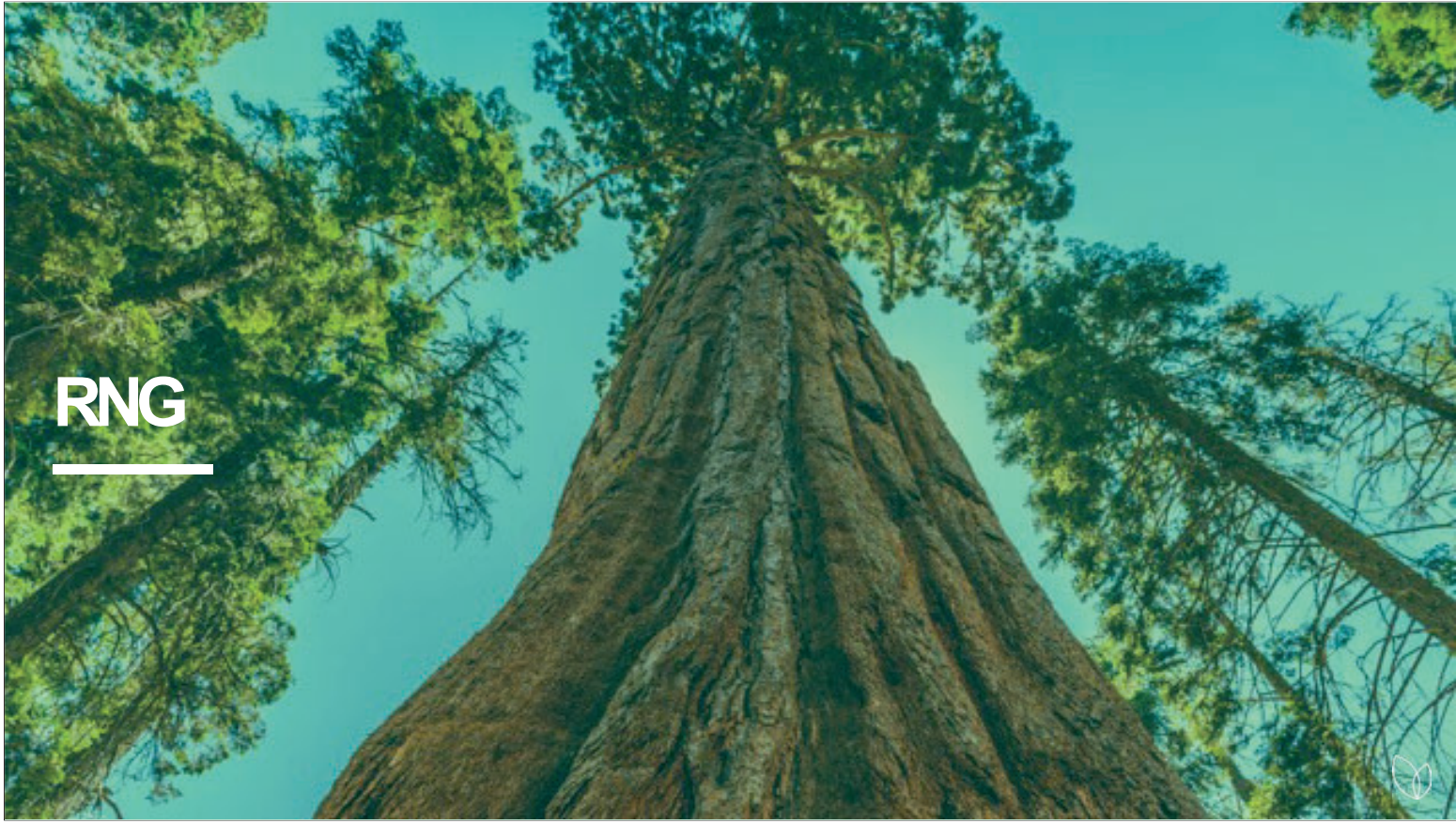
## Outline

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- Renewable Natural Gas (RNG) overview
- Plastic Renewal overview
- Discussion







**RNG**

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## Agriculture accounts for 9% of U.S. greenhouse gas emissions.

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Renewable natural gas (RNG) is natural gas produced from organic waste materials like food waste and animal and plant-based materials.



The major sources of RNG are landfills, animal manure, and solid waste extracted during wastewater treatment.



The gas is considered to be “renewable” because it is created by waste that is continuously produced, and is naturally occurring as part of the decomposition process.



Anaerobic digestion technology captures raw biogas, cleans, upgrades, and compresses it into renewable natural gas.

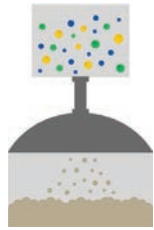


# How Renewable Natural Gas is Made



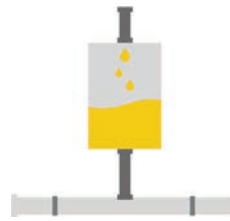
## Step 1

Waste is collected from the farm.



## Step 2

Waste is processed by the digester, which releases biogas/methane. Biogas is captured in the digester.



## Step 3

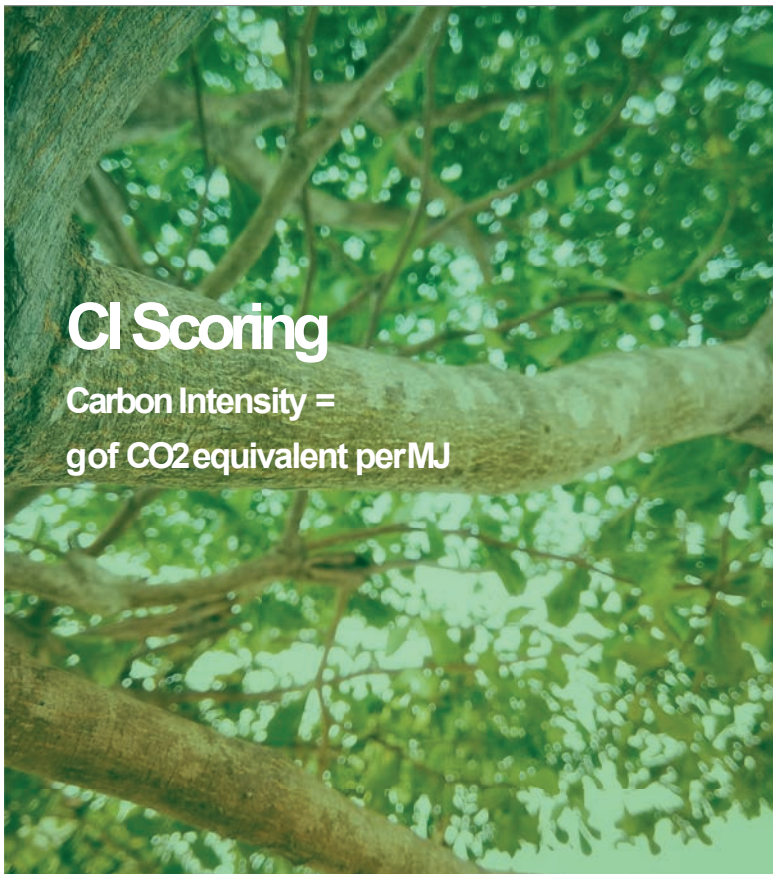
The biogas is then processed into renewable natural gas (RNG). The RNG is injected into a pipeline for distribution.



## Step 4

The remaining digesterate is turned into commercial fertilizer or given back to the farm.

Highly Confidential; For Discussion Purposes Only



## CI Scoring

Carbon Intensity =  
g of CO<sub>2</sub> equivalent per MJ

Fuel Type	CI Score
Diesel	102
Gasoline	100
Ethanol	61
Range of Typical RNG Project	- 150 to -250



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## Title search: Alternatives to Renewables - Carbon Capture & Storage/ Waste to Energy

Also available as part of the eCourse

[2021 Renewable Energy Law eConference](#)

First appeared as part of the conference materials for the  
16<sup>th</sup> Annual Renewable Energy Law Institute session

"Alternatives to Renewables - Carbon Capture & Storage/ Waste to Energy"