

# Biogas Projects in Practice: Navigating Feedstock, Certainty, and Variability

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better.



# Biogas Value Chain Overview

## Feedstock



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# Biogas Value Chain Overview

Feedstock

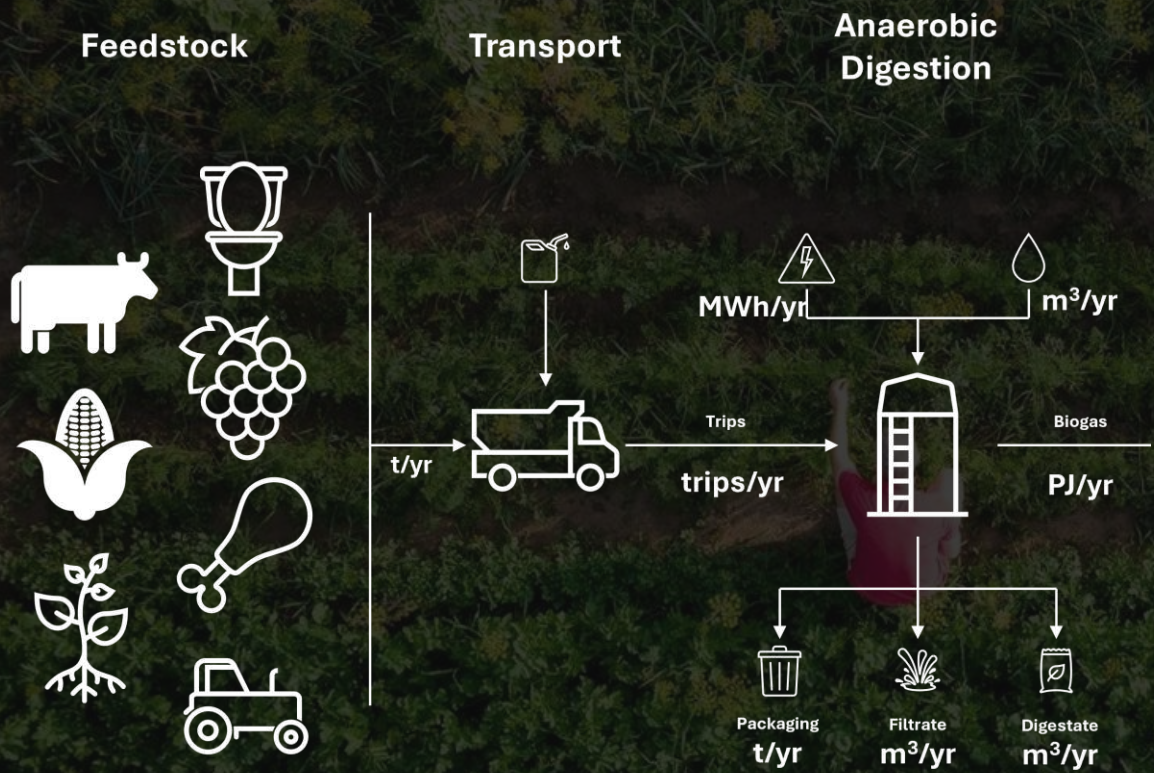
Transport



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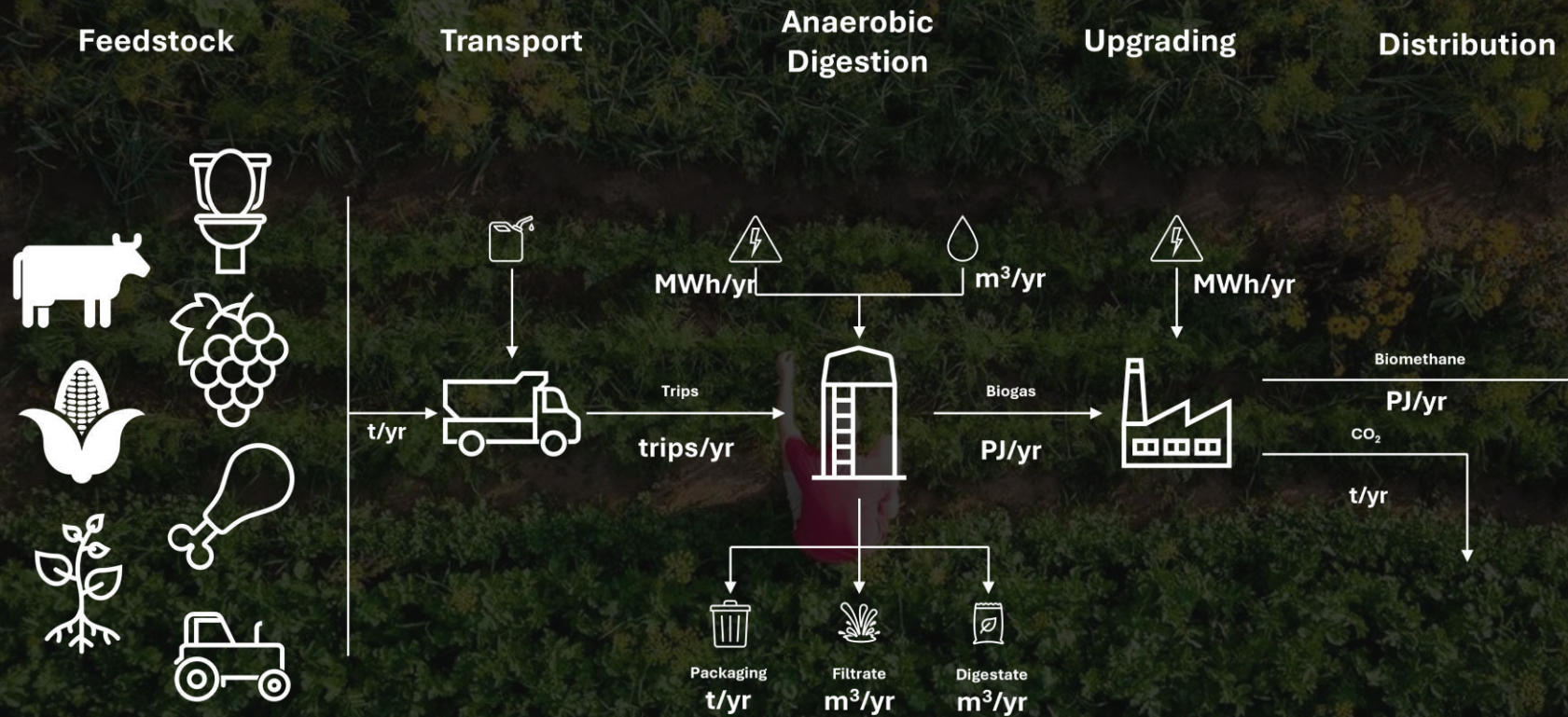
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# Feedstock – Recipe for a Biogas Project

Feedstock



- Locking in long term contracts
- Seasonal variation
- Contaminants
- Digestate Management
- Clear understanding of REAL Volumes

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# Feedstock Dilemma – *Build it and they will come?...*

Feedstock

Transport



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# Energy Crops – BYO feedstock



- **Cost Challenges**
- **Not a Waste solution**
- **Potential Recipe “Improver”**
- **Not an easy “first step”**

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# New Zealand Component

Transport



- Low population density
- Behaviours
- We have lots of land
- Potential hub model
- Need for Collaboration

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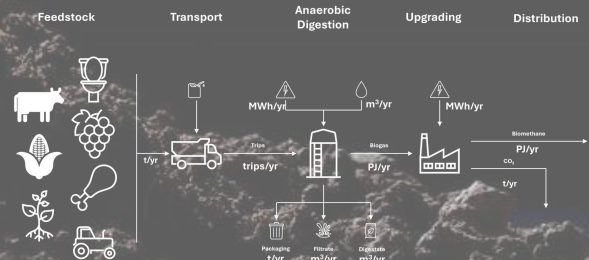


# Opportunities

- **Collaboration:** Waste management and Energy generation
- **Relationships:** not an Engineering challenge, it's a People challenge
- **Sizing:** is bigger always better?
- **Technology:** not new tech, just needs more adoption
- **End-use:** is grid always best?  
Opportunity to consider direct site use



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# In Conclusion

Understand the real available feedstock



Lock in, where possible, long term 'Anchor Feedstock'



You can't engineer out the need for behavioural change



Collaboration is key – If just one party wins, no one wins



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