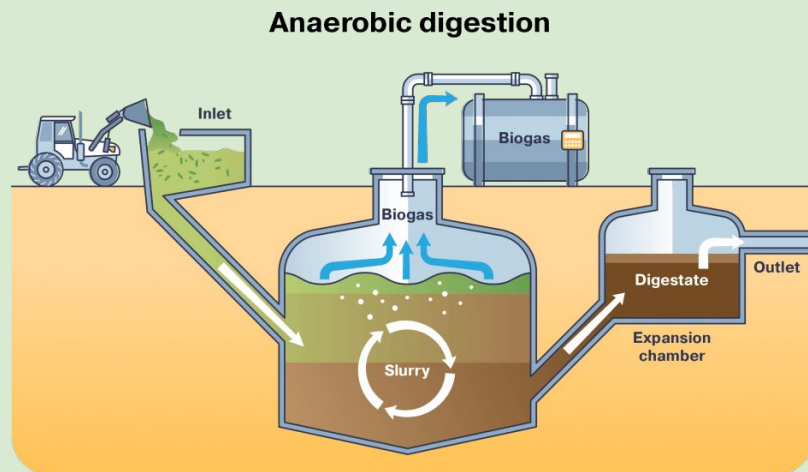


The Process:

- Take in organic waste from manure, food, and other sources
- Anaerobic bacteria break down the waste
- A methane rich biogas is formed
- The biogas can be used for heat and electricity
- Biogas can also be converted to a renewable natural gas
- Digestate leftover is used as a fertilizer

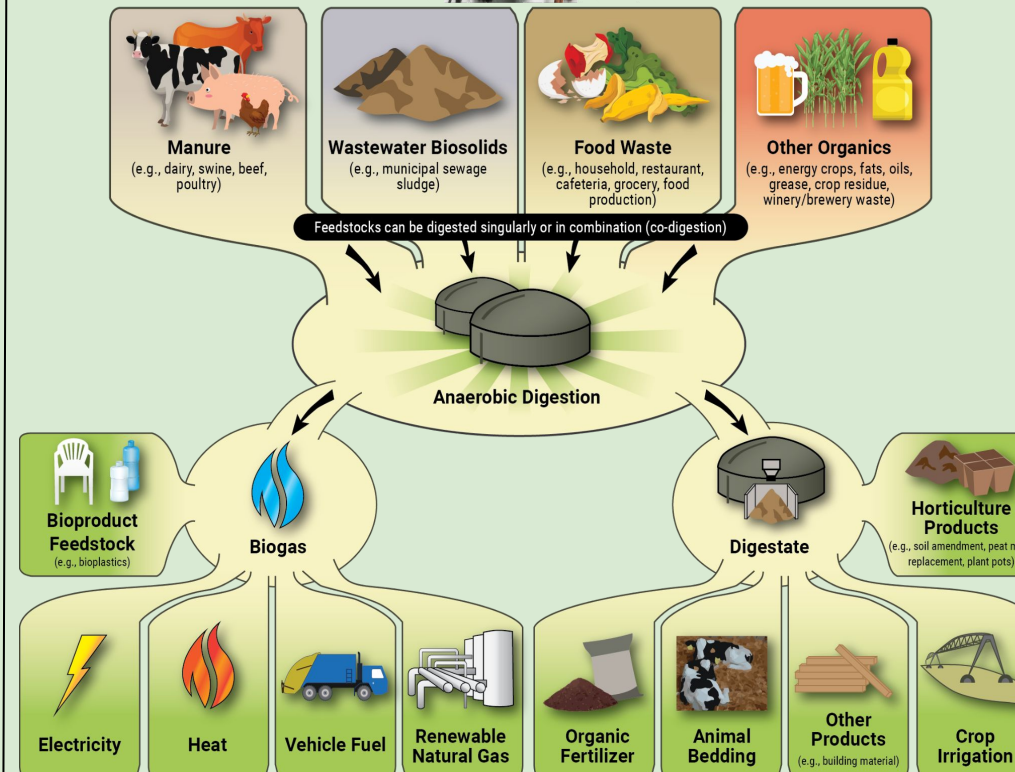


Methane Digesters

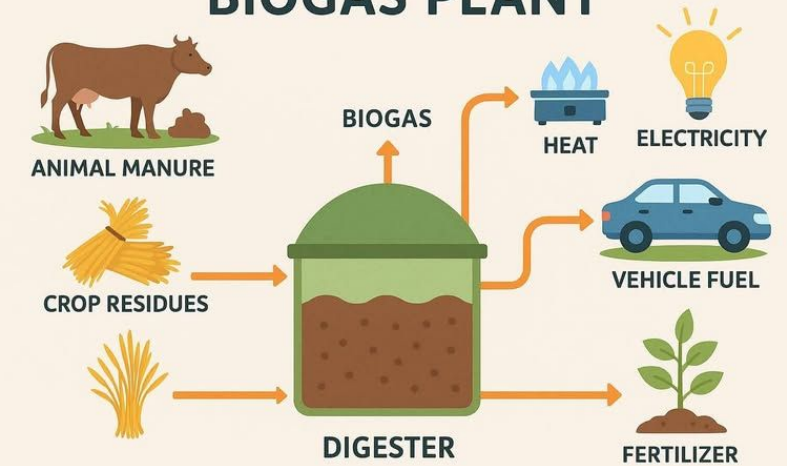
JJ McCauley - Akiro Licitro

CPSG200 - Fall, 2025

Science & Global Change Second Year Colloquium



BIOGAS PLANT



Environmental Benefits:

- Digesters trap methane and turn it into energy
- Biogas reduces use and reliance on fossil fuels
- Reduces greenhouse gas emissions (methane is far more potent than CO₂)
- Recycles nutrients and handles waste effectively