

Digester Climate Opportunity in Dane County

Based on Operations of Community Digester:

- Facility built to be in the organic waste processing and nutrient extraction businesses
- Cow manure under management:
 - 2,500 with current electricity model
 - 2,750 prospectively with RNG model
- Roughly 80 tons annually of CO₂e capture per cow
- Translates to 220,000 metric tons annually in RNG model
 - Using only 2 of 3 digesters currently, will grow to 330,000 tons
- 55,000 cows in Dane County
- With 50% of cows under management, 2.2 million metric tons of CO₂e capture per year is available
- A corollary benefit could be the capture of 450+ tons of P

DANE COUNTY CLIMATE COUNCIL

Ag Working Group Digester Proposal:

- The Working Group proposes a target of having the manure of 50% of the dairy cows in Dane County processed through digesters within 5 years.
- Achievement of that goal would drive 2 significant benefits important to Dane County:
 - Capturing 2.2 million metric tons per year of CO₂e which would otherwise volatilize into the atmosphere
 - Capturing and exporting up to 450 tons annually of phosphorous which would otherwise be subject to runoff into local waterways and water bodies.