Muscatine Area Resource Recovery for Vehicles & Energy

Building a food waste recovery facility

Midwest Food Recovery Summit Des Moines, IA
Sept. 11-13, 2018
Why did we want to work this hard?

Watching energy waste off into the air

Watching 10 tons/day go to landfill
Food Waste Receiving Is Fun!

Travelling the country to find a facility trying to do what we plant to do, only Hermitage came close but without refuse truck receiving.

San Diego, CA Food Bank
- Mandated!

Janesville, WI WWTP
- Grant Funded!

Hermitage, PA Food Waste to Energy and Wastewater Reclamation Facility
- Just crazy enough to try it!

Kansas City, MO WWTP
- Large Market Demand!

So why isn’t everyone doing it?
Water & Resource Recovery Facilities

- We are made for this kind of work
Anaerobic Digesters

- Existing and available

- New Digesters
MARR for Vehicles and Energy

CNG Delivery Models

- On-site Fueling
- Local Fueling “Mother-Daughter” Station
- National Fueling - Pipeline Injection
Free Fuel!!

How many gallons would you add?

Biogas Fuel, DGE/day

- Low: 528
- Med: 694
- High: 880
Conclusion

- It is time for more facilities to start planning, 3-5 years out from production
- There needs to be incentives, grants, etc.
- Ag producers need mandates to make the move
- Waste has always been with us, now we make it work for us

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