US ERA ARCHIVE DOCUMENT



Co-Digestion Economic Analysis Tool (CoEAT):

"Because you have to CoEAT before you co-digest..."

Innovative Energy Management Workshop October 5, 2010 Las Vegas, NV



Why Co-Digestion?

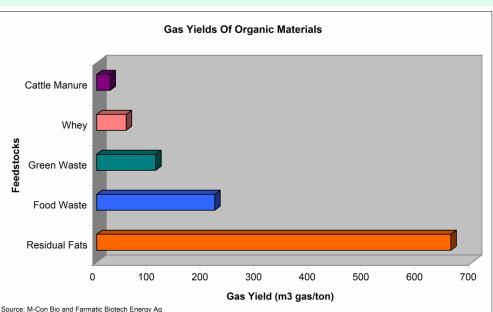
- More ENERGY! Renewable ENERGY!
- Divert food waste from landfills
 - 18% of waste reaching landfills is food!

Divert FOG from sanitary sewer system and reduce

overflows

Reduce GHG Emissions!







Purpose

- Initial economic feasibility of co-digesting of food waste and FOG at wastewater treatment plants
- Model intended for WWTFs with excess capacity, BUT pre-existing digesters are not required

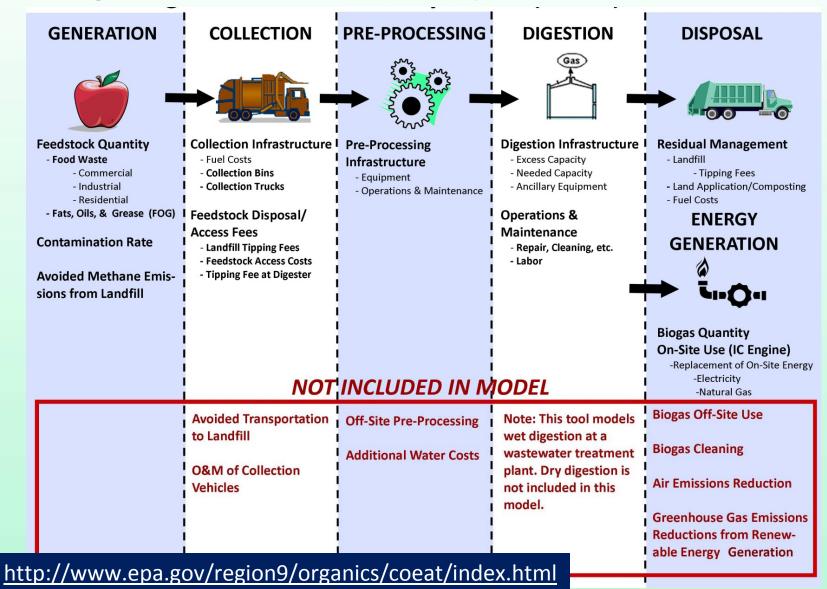
Designed for decision-makers with significant technical

expertise





Co-Digestion Economic Analysis Tool (CoEAT)





Types of Organic Wastes Considered

- Residential Food Waste
- Commercial Food Waste
- Fats, Oils, and Grease (FOG)





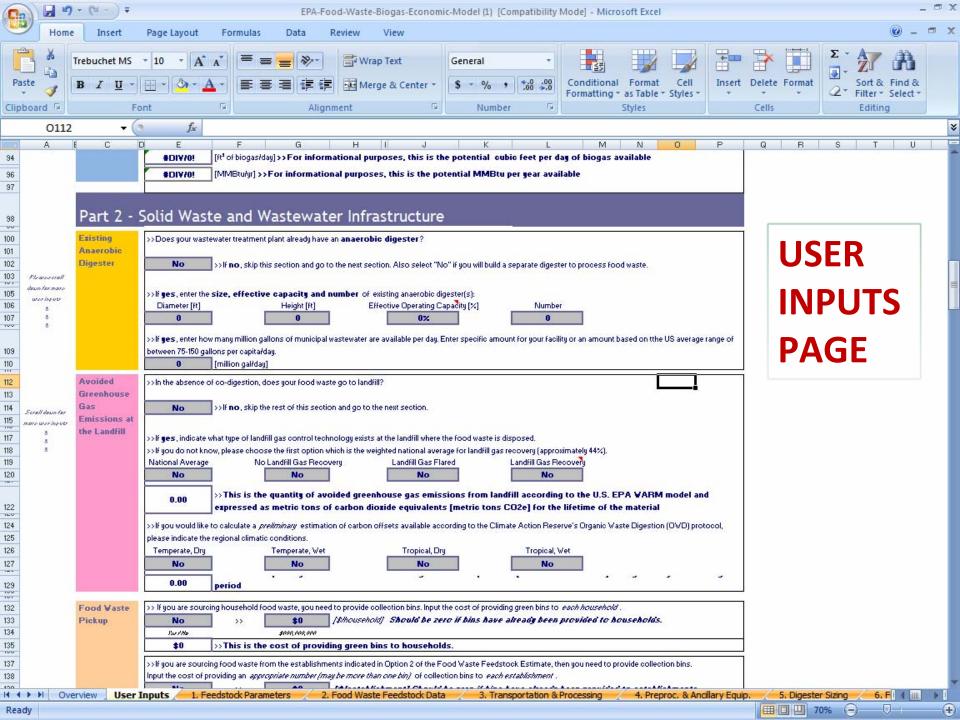
Food Processing Wastes

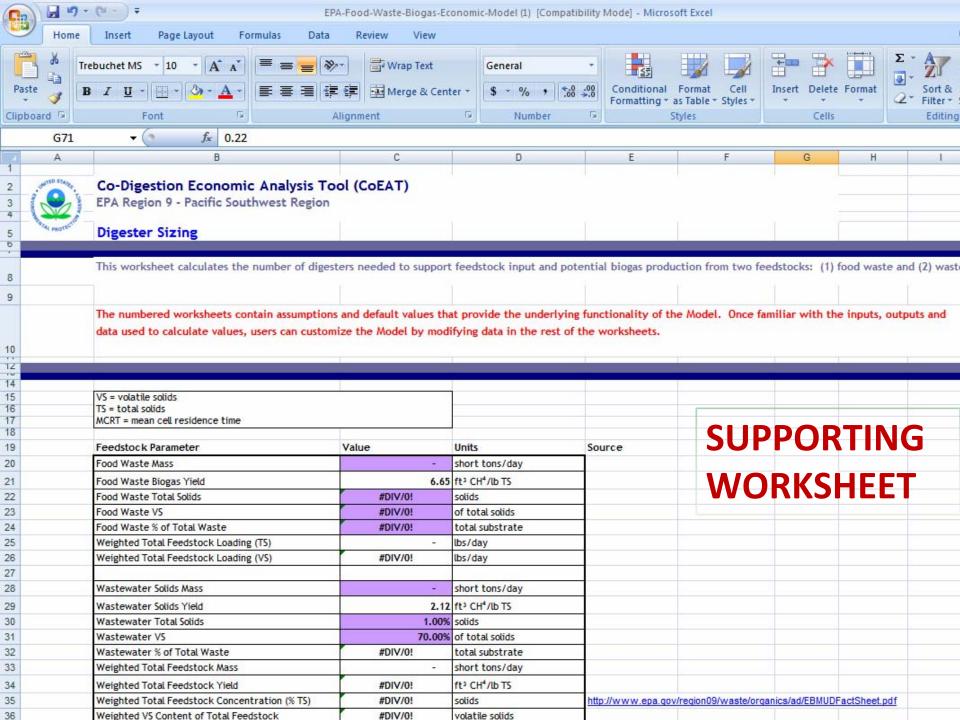


Inputs and Outputs

- ❖ Food Waste Feedstock
 ❖ Fixed and Recurring Costs
- Existing Infrastructure Solid Waste Diversion Savings
- Pre-Processing Needs
 Capital Investments
- Financial Data
 Biogas Production & Energy Value

Methane Reductions from Landfills







Why Use CoEAT?

- Gives initial economic feasibility
 - Is this possible? Should more resources be put in to understand viability?
- Gives list of different to consider for a co-digestion project
- Helps provide estimate of available feedstock (food and FOG).

QUESTIONS?

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