

EPA LMOP Session: Partnership Opportunities



Lauren Aepli
Program Manager
EPA
Aepli.Lauren@epa.gov



Ellen Meyer
Program Manager
EPA
Meyer.Ellen@epa.gov



Chris Carusiello
Environmental Engineer
EPA
Carusiello.Chris@epa.gov

@SWANA | #SWANApalooza



The background of the slide is an aerial photograph of a city at night, with numerous buildings illuminated from within. A semi-transparent, light-colored hexagonal grid is overlaid on the entire image, creating a honeycomb pattern. The text is centered and rendered in a clean, white, sans-serif font.

Anaerobic Digestion Facilities Processing Food Waste in the United States

Year Two Survey Results

OVERVIEW

1. Background
2. Goals
3. Scope of Facilities
4. Results
5. Conclusion & Next Steps
6. Excess Food Opportunities Map

@SWANA | #SWANApalooza



DATA COLLECTION GOALS



- Identify the number and location of AD facilities



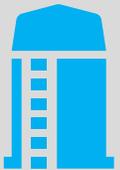
- Document processing capacity & track it over time



- Types of feedstocks and sources



- Amount of food waste processed



- Amount of biogas produced



- Analyze the end-uses of AD products

SCOPE OF FACILITIES

Stand Alone



On-Farm



WRRF



RESULTS

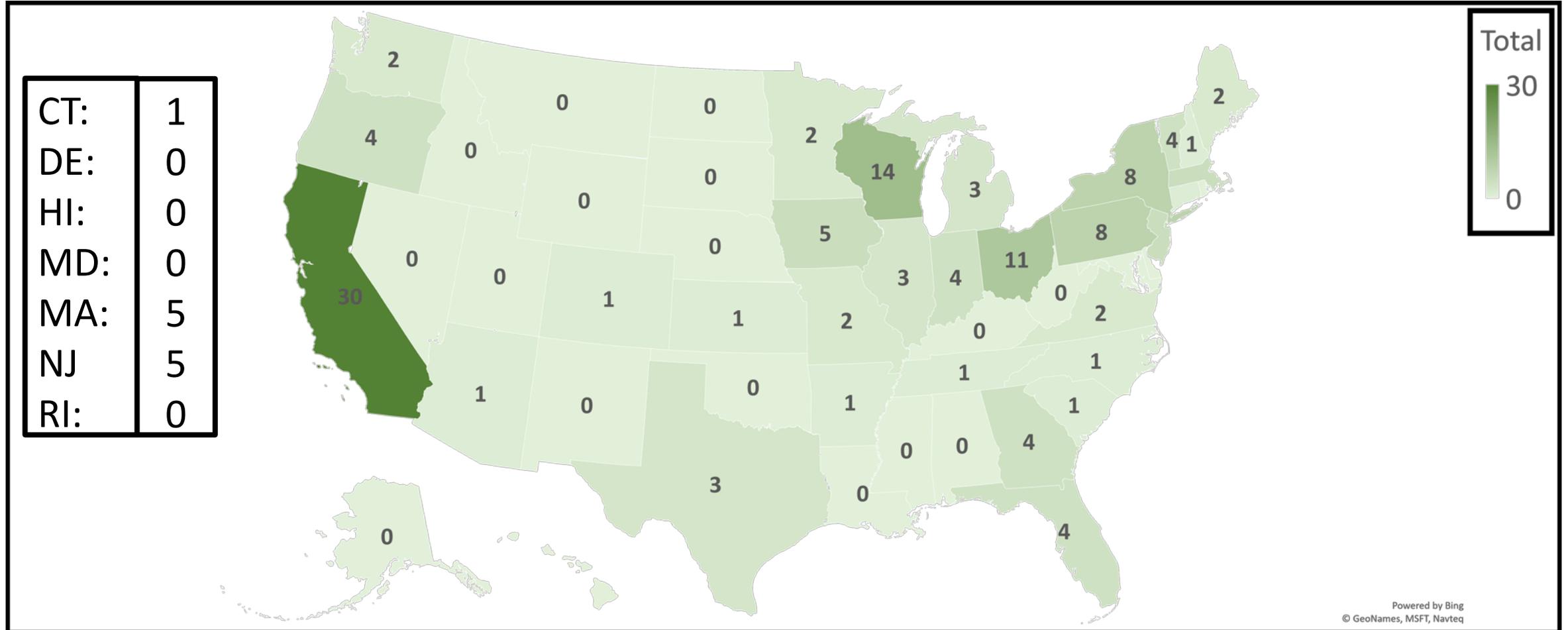
- Location Data
- Response Rates
- Processing Capacity
- Food Processed
- Biogas Production
- Operational Dates
- Feedstock Types & Sources
- Biogas Uses
- Gas Cleaning Systems
- Solid & Liquid Digestate Uses

**And
more in
the full
report!**



RESULTS:

Operating AD Facilities Processing Food Waste by State

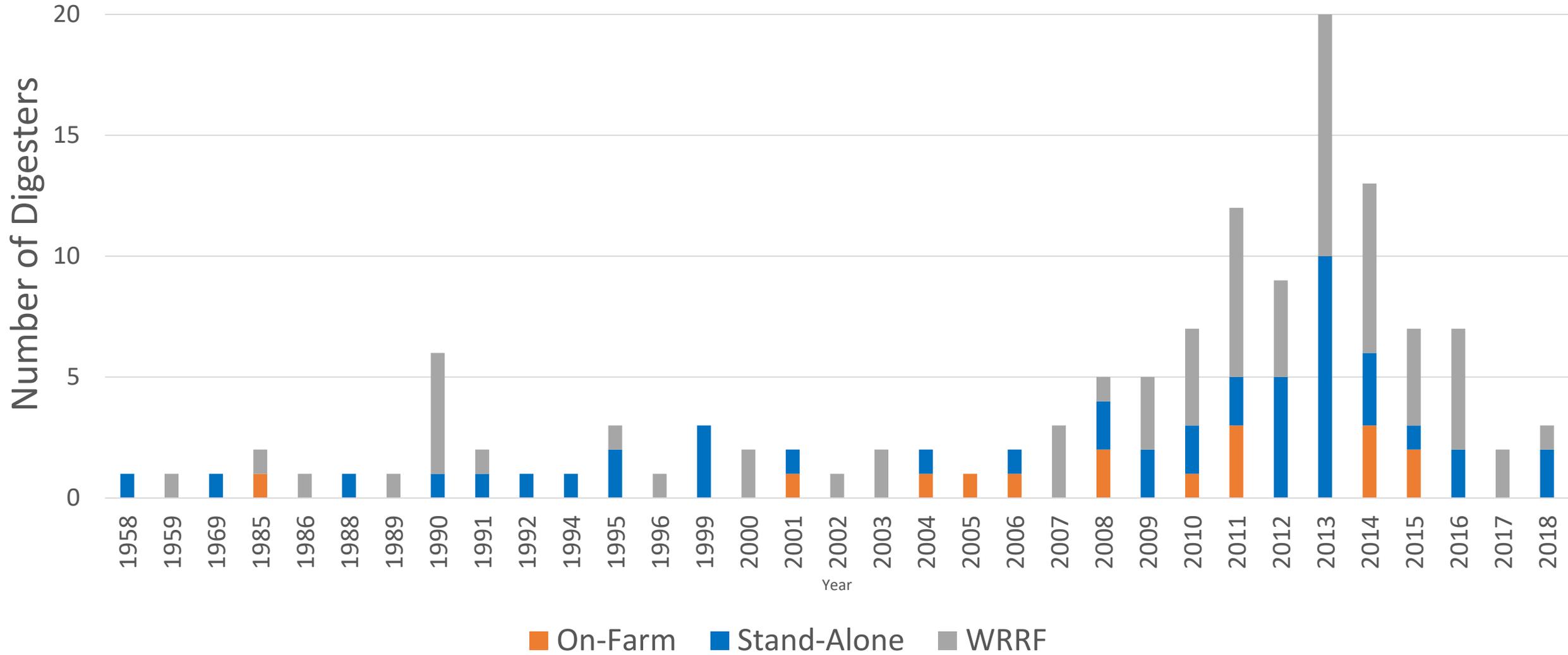


RESULTS:

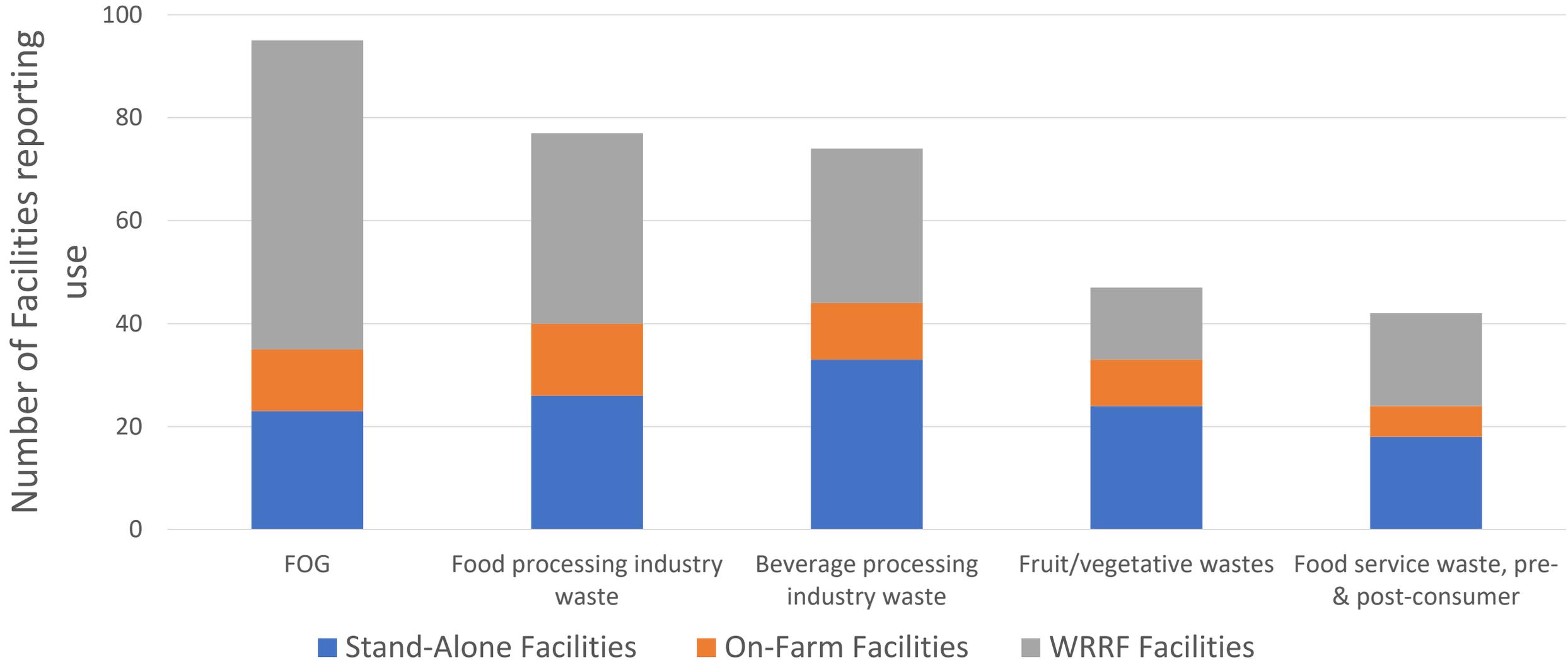
- Total processing capacity (2018) = 21.1 million tons per year
- Total amount of food waste processed (2016) = 10.7 million tons
- Total amount of biogas produced (2016) = 40.3 thousand SCFM

Digester type	Number of Facilities Surveyed	Submitted Survey	Response Rate
Stand-alone digesters	62	46	74%
On-farm digesters	59	16	27%
WRRF digesters	77	72	94%
Total	198	134	68%

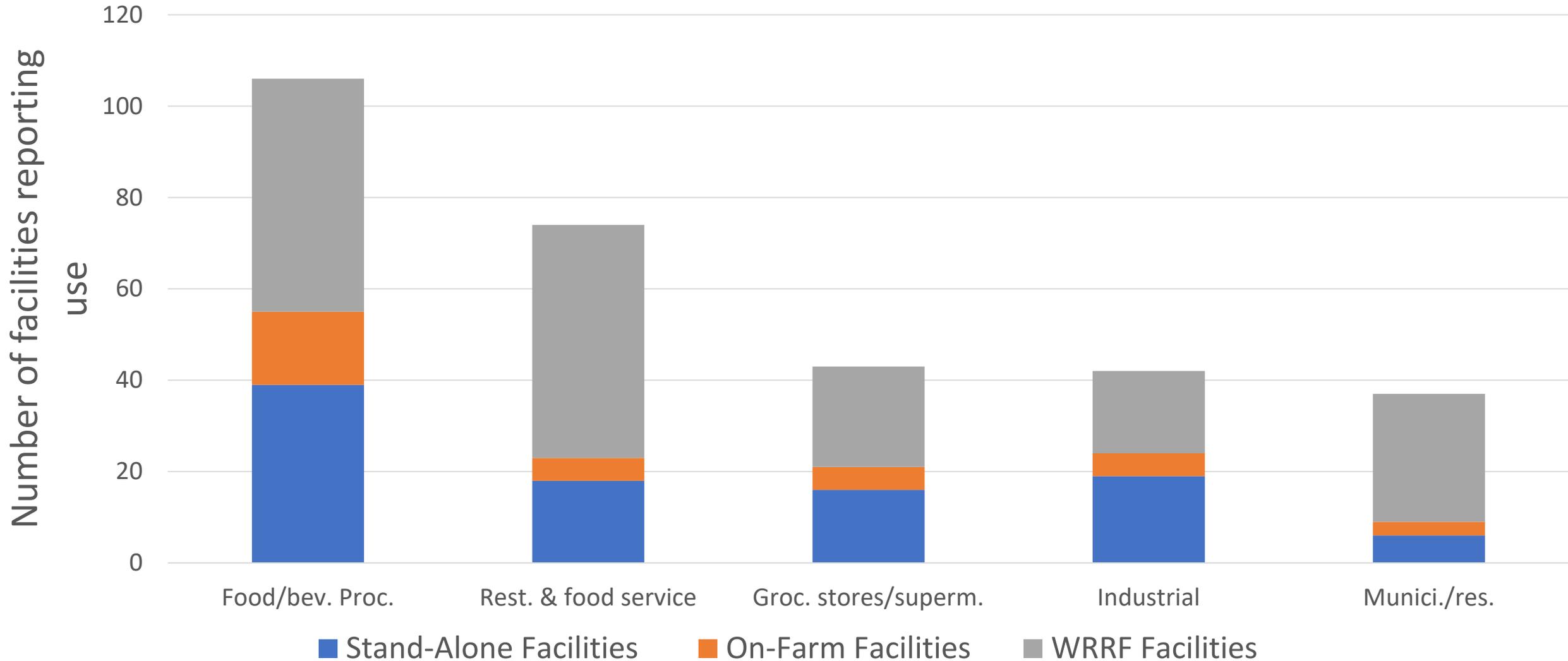
RESULTS: Operational Dates



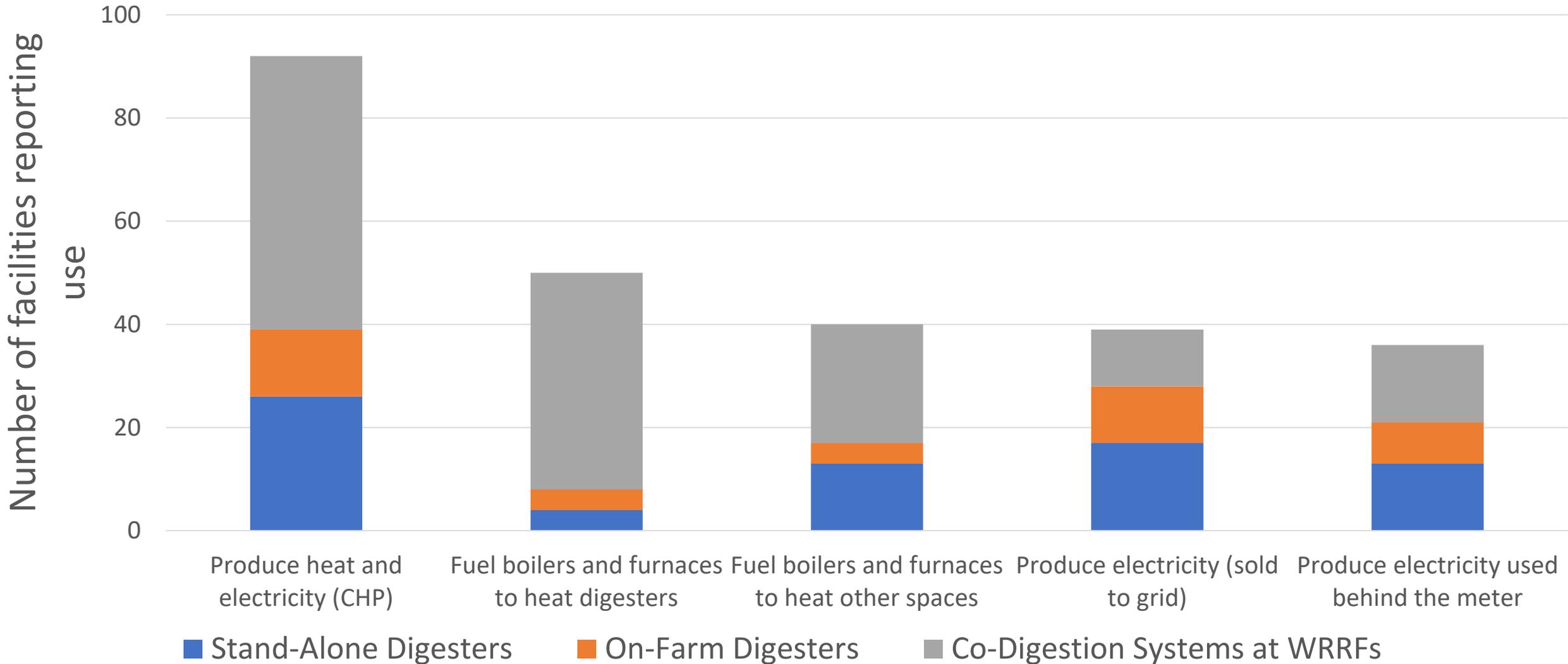
RESULTS: Top Five Feedstock Types Processed



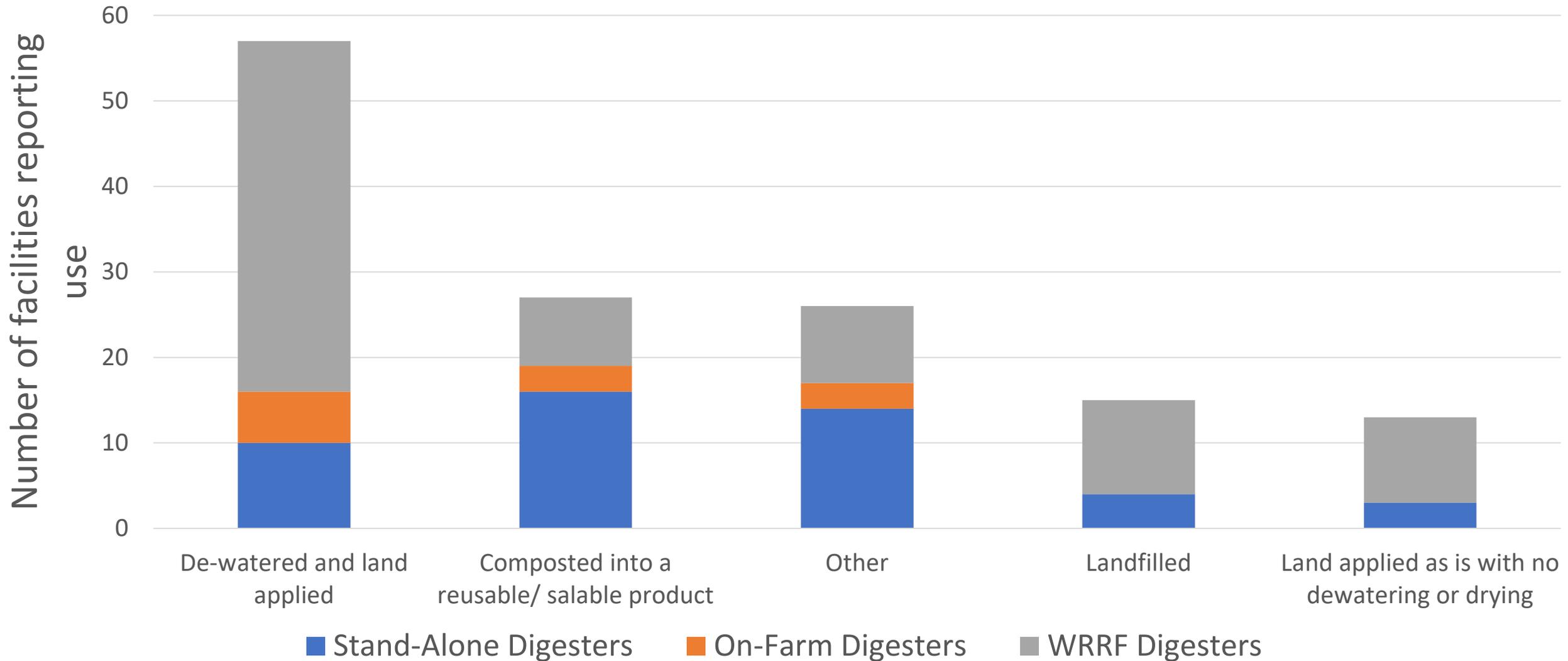
RESULTS: Top Five Sources of Feedstock



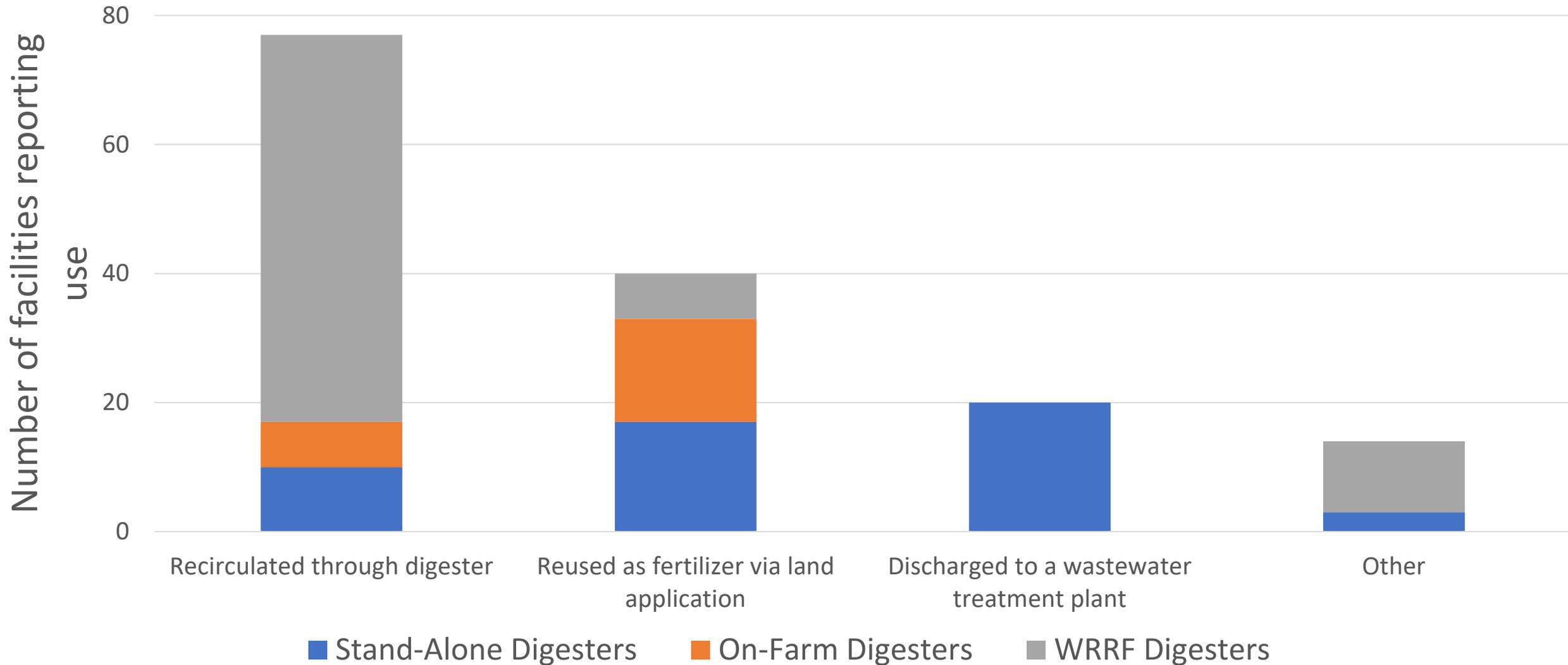
RESULTS: Top Five Uses of Biogas



RESULTS: Top Five Uses of Solid Digestate



RESULTS: Uses of Liquid Digestate



CONCLUSION & NEXT STEPS

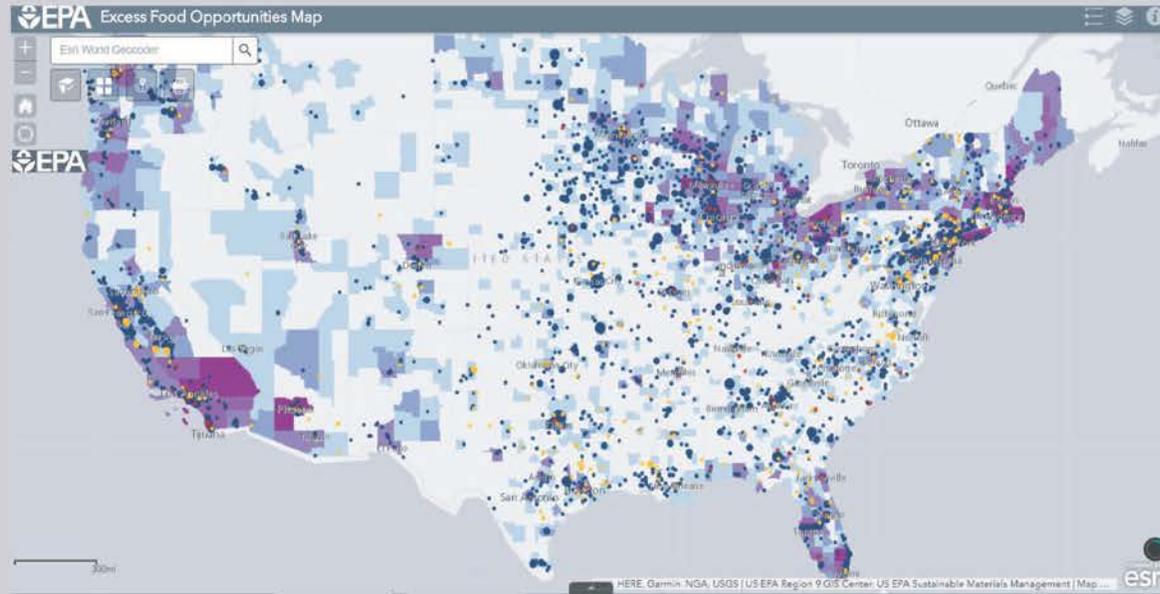
- Report I and II have been released
 - Currently writing Report III
- Target release Summer/Fall 2020

<https://www.epa.gov/anaerobic-digestion/anaerobic-digestion-tools-and-resources>

@SWANA | #SWANApalooza

Virtual
SWANA palooza
2020

U.S. EPA EXCESS FOOD OPPORTUNITIES MAP



Use the Map to support diversion of food from landfills.

Find more than one million potential generators (sources) of excess food, and more than 4,000 recipients (food banks, composters and anaerobic digesters) around the country and in your community.

Utilize the map's tools, such as the 'Near Me' feature, basemap gallery, and bookmarks function, to make navigation simple and intuitive.

Find and download details about individual establishments, such as addresses and annual estimates of excess food generation, by using the map's attribute table.

Or internet search: "epa food map"

Access the Map at:
<https://www.epa.gov/foodmap>



Thank you!

Chris Carusiello

EPA Office of Resource Conservation & Recovery

Carusiello.Chris@epa.gov

Melissa Pennington

EPA Region III

Pennington.Melissa@epa.gov