First Friday each Quarter:
12:00 - 1:30 pm. Have lunch.

April 1: Current AD in New England & Getting Organized: What topics do you want covered?
July 1: Topic to be determined
October 7: Topic TBD

Dial:
712-832-8300
Enter code
344378 (“digest”)
Go to url: https://join.me/nebiosolids

Produced by:
with help from NHDES.

www.nebiosolids.org/
ne-digestion-roundtable
603-323-7654
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Northeast Digestion Roundtable 2016
Quarterly webinars to share technical operations experiences & advance best practices regarding anaerobic digestion in this region.
Proposed topics

- Tracking 503/regulatory compliance: VS destruction – food waste impacts on achieving compliance. Check with CA contacts – regulatory issues re accepting food waste, e.g. EBMUD

- Digester upsets
  - Foaming, rapid rise, overflows
  - VA/alkalinity ratios – any negative ranges?

- Maintenance: how often, procedure, grit build-up, ragging

- Struvite / nutrient recovery

- Supplemental feedstocks: high-strength, food, FOG, etc.
  - Markets
  - Vetting feedstocks
  - Managing (e.g. avoiding clogs) & preparation of feedstocks (slurrying)
  - Feeding regimen
Proposed topics

- Modes of digestion: meso, thermo, psychrophilic, high solids v. low solids
- Biogas management – conditioning, storage
- CHP – technologies
- Electrical interconnections – Bourne project failed due to inability to agree on electricity payment by utility
- AD biosolids not being as well-received by farmers? Due to lower N.
Digestion in this region

Farms
- Exeter Agri-Energy at Stonyvale Farm, Maine
- ~dozen in VT – cow power - see their website
- 3 in MA (Jordan, Pine Island, Barstow’s in Hadley)
- ~2 in CT

Merchant/Stand-alone
- Blue Sphere, Johnston, RI – starting up in 2016
- Village Green Ventures, Brunswick, ME – taking some material
- Bourne, MA project scrapped for now
- Crapo Hill landfill – New Bedford – in development
- Southington, CT – Turning Earth AD in development, and a second one too?
- Another project in Hartford area (in development)
- 1 in St. André, NB, just over border from ME – CH4 system – merchant, industrial food waste, cow manure

Municipal Wastewater
- See biogasdata.org → ABC map
- See NEBRA spreadsheet
Municipal digestion in this region

- NY – lots
- New England has relatively few
  - CT - ~10
  - MA – ~6
  - ME – 1
  - ME – 1
  - NH – 3
  - RI – 1
  - VT - 13
- Quebec – several
  - Ste. Hyacinthe – co-digestion
  - Quebec City moving to AD from incineration
  - Southern Ontario – Harvest Power developed, then sold to Stormfisher Biogas
Resources: General

NEBRA website: http://www.nebiosolids.org/resources/

American Biogas Council: https://www.americanbiogascouncil.org/

WEF biogas data: http://www.biogasdata.org

EPA AgStar: https://www.epa.gov/agstar https://www.epa.gov/agstar/learn-about-biogas-recovery

What are the particular challenges?

Roundtable discussion:

↑ In New England / Northeast?
What are the particular challenges?

At your facility?

Technical

- Accurately measuring flows; avoiding grease build-up on meters. EJ: cleaning monthly; watching data to verify measurements
- Grit accumulation; how often is cleaning needed?
  - 4 years, 20% volume taken up by grit, Exeter Agri
  - 20 years, 20% full of grit – Fairfield, CT
  - Essex Jct: rags more of problem; changing out screening more regularly; 5 year frequency with headworks grinding system
  - Essex Jct: local contractor cleaning (P & H Senesac, Milton, VT); proper mixing is key to avoid congealing grease. Chopper pump hydraulically driven & fire hose
- Need to keep rags out. Watching VS destruction data can help indicate issue.
What are the particular challenges?

- At your facility?
  - Technical
    - Feedstock preparation & receiving facilities
      - WM food scrap prep facility in Charlestown, MA
        - Under construction; to feed GLSD, starting pilot this summer
        - GLSD: 2 engines & 4th digestion to be added
        - GLSD cleaned digesters recently
    - Grind2Energy at Whole Foods markets in Boston area
    - Exeter Agri-Energy has a slurring machine
      - Delivering by tanker truck to LAWPCA; working for LAWPCA so far. Grease in slurry may exacerbate FOG issues at WRRF (meter coating)
      - LAWPCA accepting at 2 cents/gal. LAWPCA appreciates high-energy feedstocks that don’t generate too much additional solids. LAWPCA also interested in helping Maine achieve management of wet organics.
      - Exeter has brokering waste division that brings in more feedstock than they can handle at their facility.
      - Stopping cantilever style pump at receiving station can lead to it not working; caution.
What NEBRA Does For You

Tours, workshops, conferences, outreach to advance best practices & understanding to advance the recycling of biosolids & other organic residuals in New England & eastern Canada.
What NEBRA Does For You

Tracking & sharing research, news, legislation, & regulation

We depend on members. Join.

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