

Anaerobic Digestion Guideline Stakeholder Engagement

May 2019



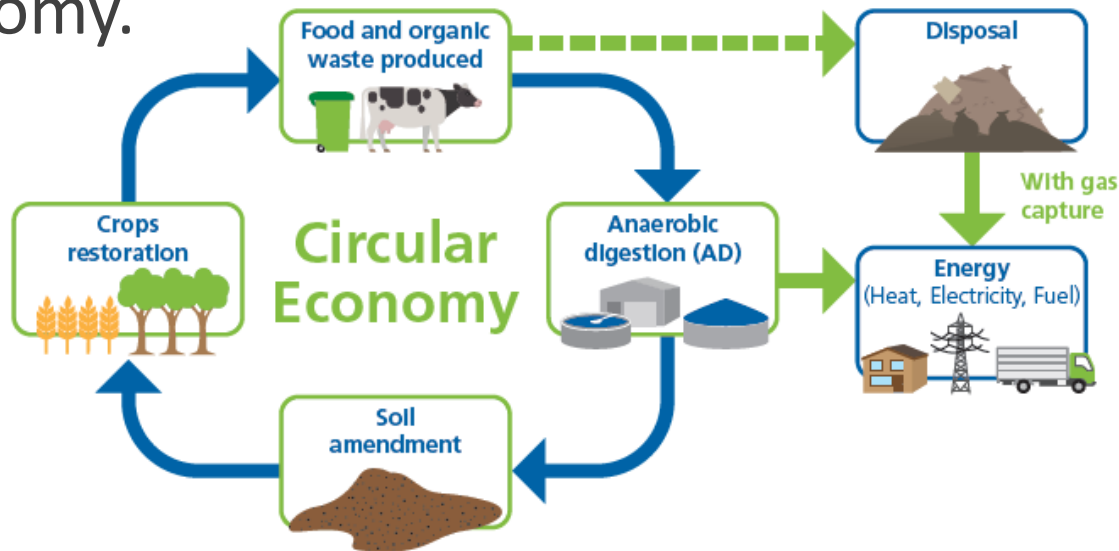
Canadian Biogas Association

- **Mandate**
 - The collective voice of the biogas industry promoting development of biogas to its fullest by capturing and processing organic materials through anaerobic digestion to maximize the utility and value inherent within that material
- **Roles**
 - Education and outreach
 - Advocacy and policy
 - Research



Biogas in Canada

- The biogas industry in Canada is helping to close the loop by anaerobically digesting organic waste materials, avoiding disposal, and converting them to low-carbon energy and soil amendments to fuel our economy.

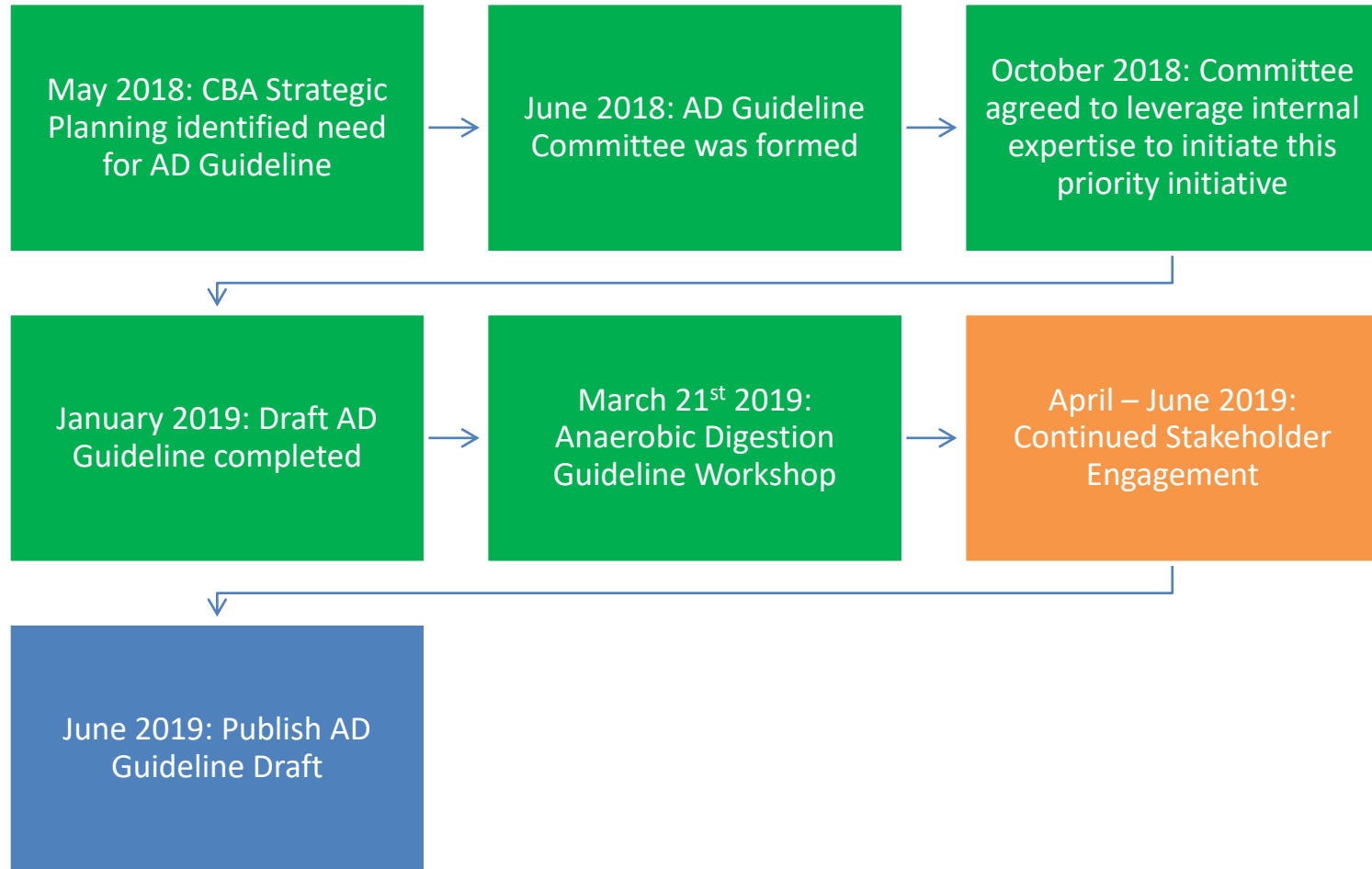


Anaerobic Digestion Guideline

- The CBA is developing a national Anaerobic Digestion (AD) Guideline
- The AD Guideline will assist stakeholders in deployment of AD facilities with recommended planning, siting, design and operational practices for AD facilities that process food and organic waste



Development Process



Priority Item

- The CBA identified the creation of an AD Guideline as a priority in the 2018/2019 Business Plan to advance improvements in environmental approvals
- The CBA continues to be active in:
 - Improving approval processes
 - Developing AD best practices
 - Enabling RNG and digestate market opportunities



2018-2019 Business Plan

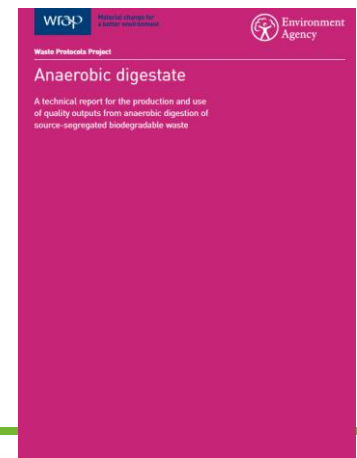
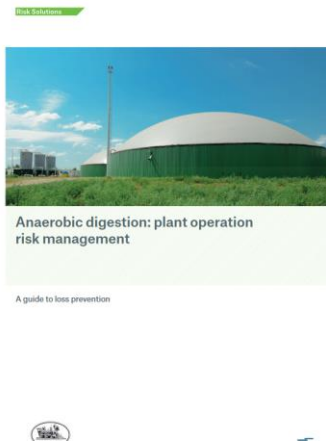
May 2018



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Addressing a Gap

- A Global Jurisdictional Scan found over 20 AD Guidelines or supporting documents in Europe, Australia, and the US
- Found that there was no equivalent document for Canada



Objectives

- The CBA's objectives in developing the AD Guideline are:
 - Create a clear outline of best practices for biogas projects
 - Assist developers and stakeholders with the regulatory process and remove barriers to support growth in the green economy
 - Inform proponents to minimize or prevent, using buffers or other control measures, the exposure of any person, property, plant or animal life to adverse effects associated with the operation of food and organic waste AD facilities.

The AD Guideline Applies to...

- The Guideline is developed to assist stakeholders in deployment of AD facilities
- **Stakeholders** include developers, regulators, organizations or members of the public with specific or general interest in AD facilities
- **Applies to** AD facilities that process food and organic waste, including agricultural feedstock
- **Does not apply to** landfill gas projects or WWTPs

AD Guideline Overview

- The AD Guideline will address:
 1. AD and Government Policy
 2. Planning and Siting Consideration
 3. Designing an AD Facility
 4. Building, Commissioning and Starting an AD Facility
 5. Operating an AD Facility
 6. Odour Prevention, Control and Treatment
 7. Contingency Planning and Safety
 8. Communication
 9. Monitoring, Sampling, Documentation and Reporting

AD Guideline Stakeholder Input

Purpose

- To engage stakeholders in a dialogue around the elements of an AD Guideline that will be an important deliverable to the biogas industry
- Identify critical areas on the Guideline, issues and potential solutions

Written for Industry by Industry

- The CBA is obtaining feedback from a cross section of the industry to enhance the Guideline
- By participating, you are playing a valuable role in development of this first of its kind document

Areas of Focus

1. Legislation, Approvals and Standards
2. Planning and Siting Considerations
3. Design for Success – Managing Inputs and Outputs
4. Design for Success – Technology and System Types
5. Achieving Consistent Operation
6. Ensuring Safe Operation
7. Odour Prevention, Control and Treatment
8. Anaerobic Digestion Communication and Capacity Building

Next Steps

- Written feedback welcome by May 24
- Draft document expected to be released June 2019



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