

# **GMI Agriculture Subcommittee**

## ***Anaerobic Digester Policies and Incentives Report***

**14 March 2014**

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# Introduction

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During this presentation, please consider...

- Are the policies and incentives of your country represented?
- How will you use this report to influence policy development or guide business practices?
- What additional resources and/or tools would you consider valuable?
- How could this data be presented in a more useful form?

# Background

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The *Anaerobic Digester Policies and Incentives Report* is under development.

- Progress:
  - *Annotated Outline* – Focuses on existing policies and incentives promoting AD project development in GMI member and non-member countries.
  - *Research Results Table* – Incorporates the results of the Subcommittee's research and investigation.

# Objectives

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- Purpose:
  - Promote policy development and encourage national leaders to improve existing policies and incentives.
  - Create a database of international policies, programs and incentives that impact AD projects.
  - Support future research and resource development to advance AD project development.

# Target Audience

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- GMI Partner and non-Partner Countries and national, regional and local policymakers.
  - Demonstrate both successes and lessons learned by others.
  - Create a framework to guide future policy development.
- GMI private-sector Project Network members, and industry representatives.
  - Offer information on policy trends and incentives that advance AD project development.
- Project developers and financing organizations.
  - Identify jurisdictions conducive to project development.
- Nongovernmental organizations (NGOs).
  - Provide resources and case studies to support advocacy efforts that promote AD policy development.
- Universities, academics, researchers.
  - Compile information to encourage additional research.

# Countries in Focus

## GMI Partner Countries:

- Argentina
- Belgium
- Brazil
- Canada
- China
- Ethiopia
- Finland
- Germany
- India
- Pakistan
- Peru
- Philippines
- Poland
- Serbia
- Thailand
- United Kingdom (UK)
- United States (US)

## GMI Non-member Countries:

- France
- Ireland
- Netherlands
- New Zealand
- South Africa
- Sweden

# Report Outline, Overview

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- I. Executive Summary
- II. Introduction
  - A. Global Methane Initiative Goals
  - B. Purpose of Report
  - C. Research Methodology
  - D. Current State of AD Around the World
  - E. AD Drivers
- III. Regulations, Policies
  - A. Current Regulations
    - 1. Agriculture-related
    - 2. Renewable Energy-related
  - B. International Treaties
- IV. Incentives
- V. Conclusion

# Part III.A -- Current Regulations

*Overview of current agriculture and renewable energy regulations and policies currently influencing the use of AD.*

## Agriculture-related regulations:

- **General:** Examples from Canada and EU.
- **Air Emissions from Farms:** Examples from U.S.
- **Water Emissions:** Examples from EU.
- **Manure Storage:** Examples from UK, Belgium, and U.S.
- **Nutrient, Fertilizer, Manure Regulations:** Examples from the UK and EU.

## Renewable energy-related regulations:

- **General:** Examples from Germany.
- **Renewable Energy Generation Targets:** Examples from EU, Belgium, China, Finland and Poland.
- **GHG Emission Reduction Targets:** Examples from Belgium, Brazil, Germany, UK and New Zealand.
- **Country-Level Energy Planning:** Examples from Ethiopia, Denmark and Finland.

# Part IV -- Incentives

*Overview of incentives that governments are currently providing to encourage AD implementation.*

| Incentives  | Examples  |
|---|---|
| Feed-in Tariffs   | UK, Canada (Ontario), Germany, Belgium, France, China, Ethiopia (in draft), Pakistan, Peru and U.S. states. |
| Renewable Energy Credits, Renewable Obligation Certificates | US, Canada, UK and India.   |
| Renewable Heat Incentives                                   | UK  |
| Tax Exemptions  | UK and US   |
| Renewable Transport Fuel Obligations                        | UK  |
| Carbon Credits / Carbon Trading                             | EU, Denmark, Finland, Ireland, the Netherlands, Norway, Slovenia, Sweden, Switzerland and UK.               |
| Nutrient Credits / Nutrient Trading                         | US  |
| Other Programs / Research Driving AD Development            | Organics diversion (Belgium, Germany); agro-industrial water quality requirements (Canada)                  |



# Part V -- Conclusion

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*Identify lessons learned in policy and incentives development, additional policies currently under review, and a path forward.*

- ***Lessons Learned:*** Examples from Belgium, UK, China and Germany.
- ***Under Development:*** Examples from Poland and Sweden.

# Case Study: EU Policies

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# Case Study: Finland

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# Moving Forward...

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- Feedback on completed work
  - Additional suggestions?
- Brainstorming—Distribution / dissemination
  - Printed report will be available
  - Other ideas
    - Online database?
    - Presentations or graphics / tables?
    - Action papers?
- Additional comments / questions / concerns?