The Centre for Agricultural Renewable Energy & Sustainability “CARES”

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Bioeconomy Research Day
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• The Centre for Agricultural Renewable Energy and Sustainability (CARES) is an applied research and demonstration facility that allows full testing and integration of new technologies with the purpose of providing direct benefits at the farm level.

• Officially launched in the Fall of 2008 as a Centre of the University of Guelph based at the Ridgetown Campus
CARES Objectives

• To be a hub of applied research, teaching and technology transfer of renewable energy
• To integrate farm (biomass, nutrient, water) and energy systems to manage agricultural footprints and add value at the farm gate.
• To produce environmentally responsible and sustainable energy
• To promote long term sustainable rural development
CARES Partners

- University of Guelph
- Chatham-Kent Ontario, Canada
- SOBIN: Southwestern Ontario Bioproducts Innovation Network
- Ministry of Agriculture, Food and Rural Affairs
- Community Futures Development Corporation of Chatham-Kent
- University of Guelph
CARES Industrial Partners

- GreenField Ethanol
- Ontario Soybean Growers
- PlanET
- Lougheed Biodiesel
- Ontario Pork Producers
- Pyramid Farms
- Agris Co-op
CARES Research: Initial Areas

Bioenergy Crops

Anaerobic Digestion

Economic Analysis

Biofuels
Potential Research Collaborations

• Biowaste and crop residue processing and handling
• Energy efficiency – systems, integration
• Environmental benefits
• Nutrient management
• On farm value-added opportunities
• Bioconversion of agricultural feedstock
• Business, economics, policy framework
Recent CARES Milestones

Biodiesel Pilot Facility

Anaerobic Digester Funding Announcement