

Columbia Biogas



Renewable Energy from Anaerobic Digestion of Food Waste

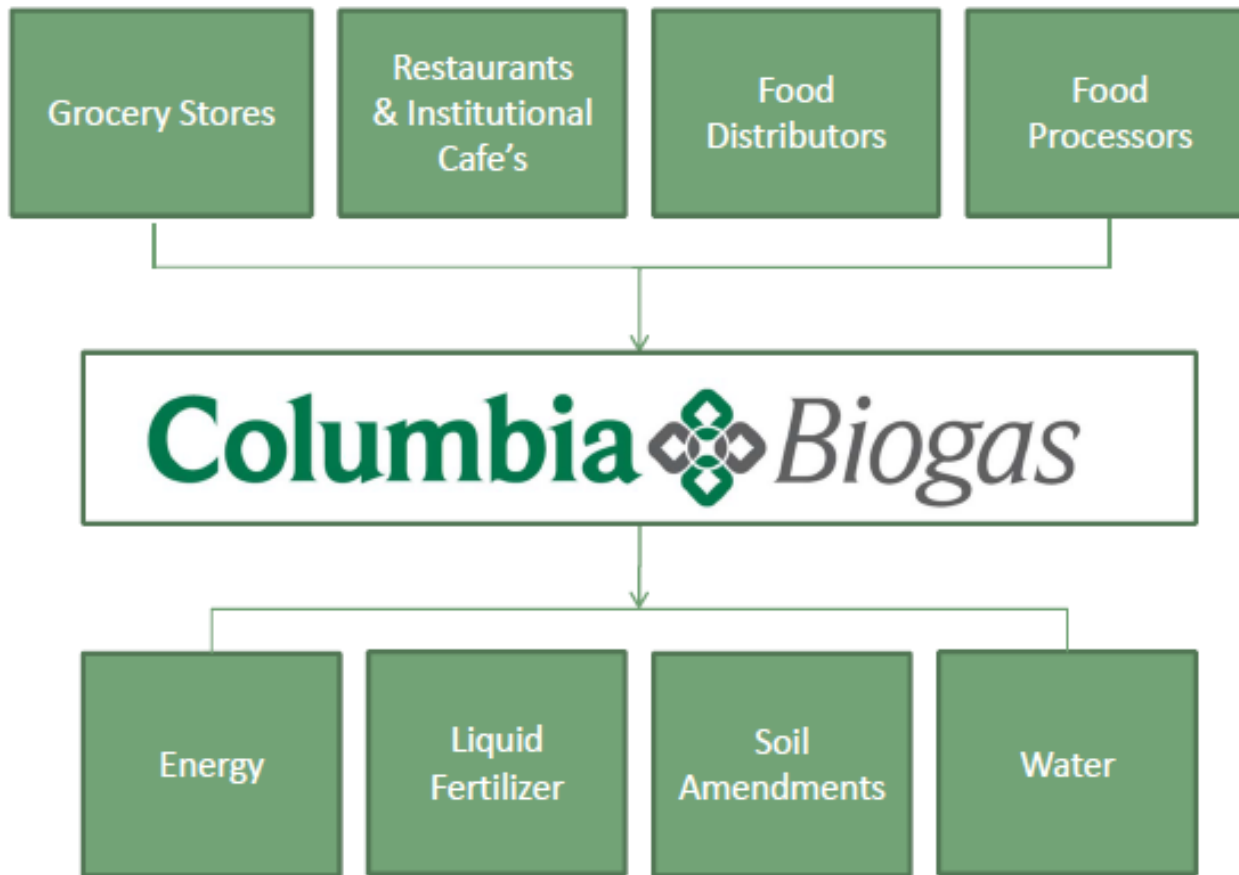
June, 2011

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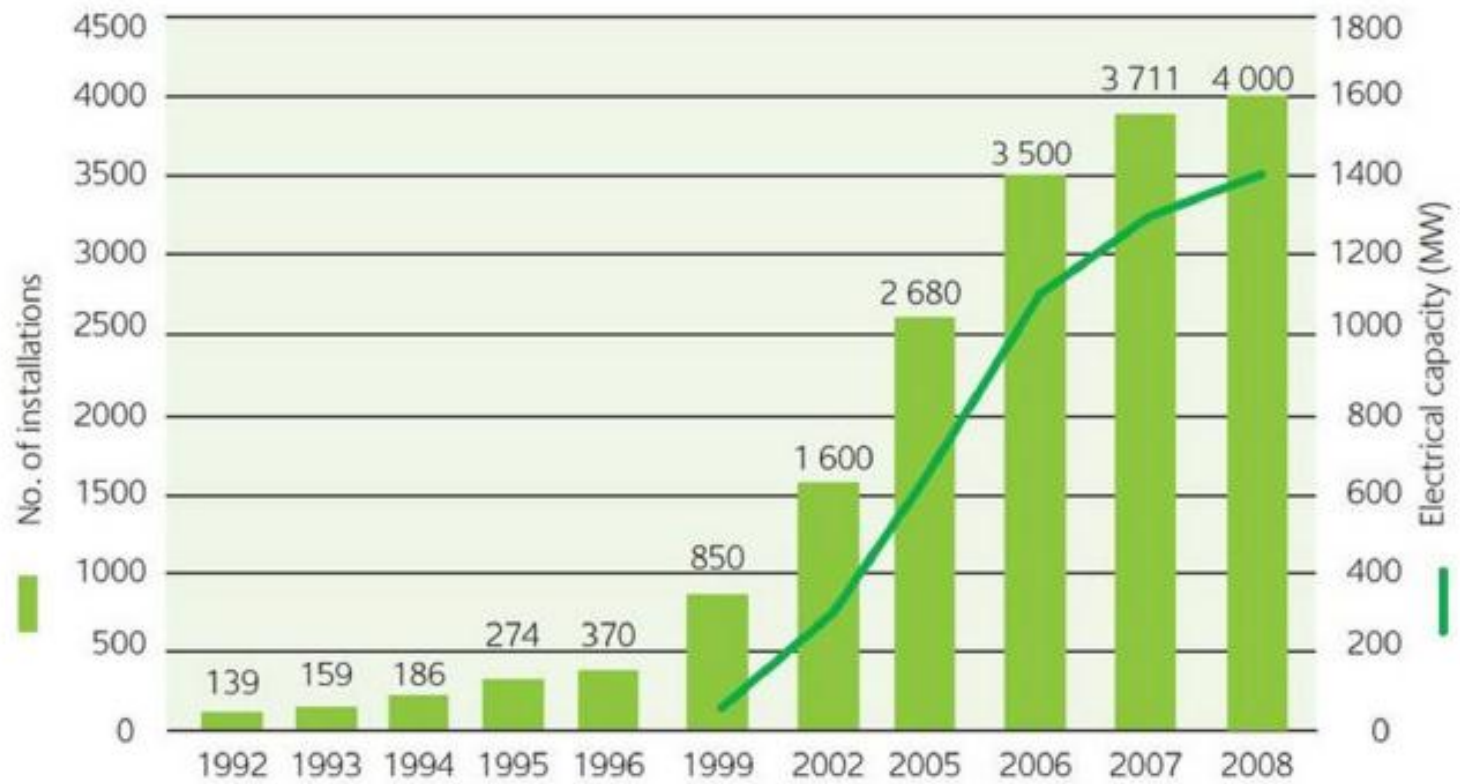
- Innovative renewable energy production facility
 - Turning food waste into energy and other sustainable fertilizer products
- “Best In Class” team leveraging proven technology
- Largest “metropolitan food waste digester” in North America
- Supports Portland’s position as a national leader in sustainability

“The Columbia Biogas facility will greatly benefit efforts by the City of Portland to increase food waste recovery, meet our solid waste management goals and decrease greenhouse gas emissions. We are proud to have this world-class facility locating operations right in the City of Portland.” - Portland Mayor Sam Adams

Sources of food waste and products produced



Exponential Growth in Germany



Site Location: 6849 NE Columbia Blvd.



Facility Layout



Acceptable Material

- All Food Items
 - Fruit, vegetables, meat, poultry, seafood, shellfish, bones, rice, beans, pasta, bakery items, cheese, eggshells



- Food-soiled Paper
 - Waxed cardboard, napkins, paper towels, paper service ware, tea bags, coffee grounds/filters

- Floral Trimmings

- Liquid Waste

- Grease trap waste, fats, oils, other liquid food waste



Unacceptable Material

- Yard Debris
 - Tree trimmings, leaves, grass, brush and weeds
- Garbage
 - Non-food related garbage and packaging



Benefits Provided by the Facility

- Local Renewable Energy and Sustainable Fertilizer Production
 - Displaces fossil fuel based generation and related carbon impacts
 - Produces high quality liquid fertilizer and soil amendments
- Supports Efforts to Achieve Long-Term Greenhouse Gas Emissions
 - Local facility eliminates carbon dioxide associated with hauling of waste to distant disposal facilities
 - Avoids methane release due to food waste decomposition in landfills
- Solid Waste Reduction
 - Supports goal to reduce waste by diverting food waste from landfills
- Commitment to Community
 - Highest and best use of food/partnership with the Oregon Food Bank
 - Community enhancement fund
 - Local job creation
 - Good Neighbor Agreement

Thank You



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