

# Industrial Anaerobic Digestion Facility (Material Flow Options)



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CH Four Biogas offers the following services through our in-house experts or trusted partners:

- feasibility Studies
- system Design and Specifications
- permitting Application & Management
- financing
- construction oversight
- commissioning
- operational support
- feedstock sourcing
- feedstock modeling
- digester rescue

CH Four has the experience necessary to develop and implement successful digester systems, and our projects perform as designed or above expectations.

### BENEFITS:

- Turns waste into revenue
- No unusable by-products
- Creates renewable "green" energy
- Reduces greenhouse gas emissions
- Reduces odor emissions
- Produces sellable products

### PRODUCTS FOR USE OR SALE:

- Energy:
  - gas
  - electricity/heat
- natural fertilizer

### With additional processing:

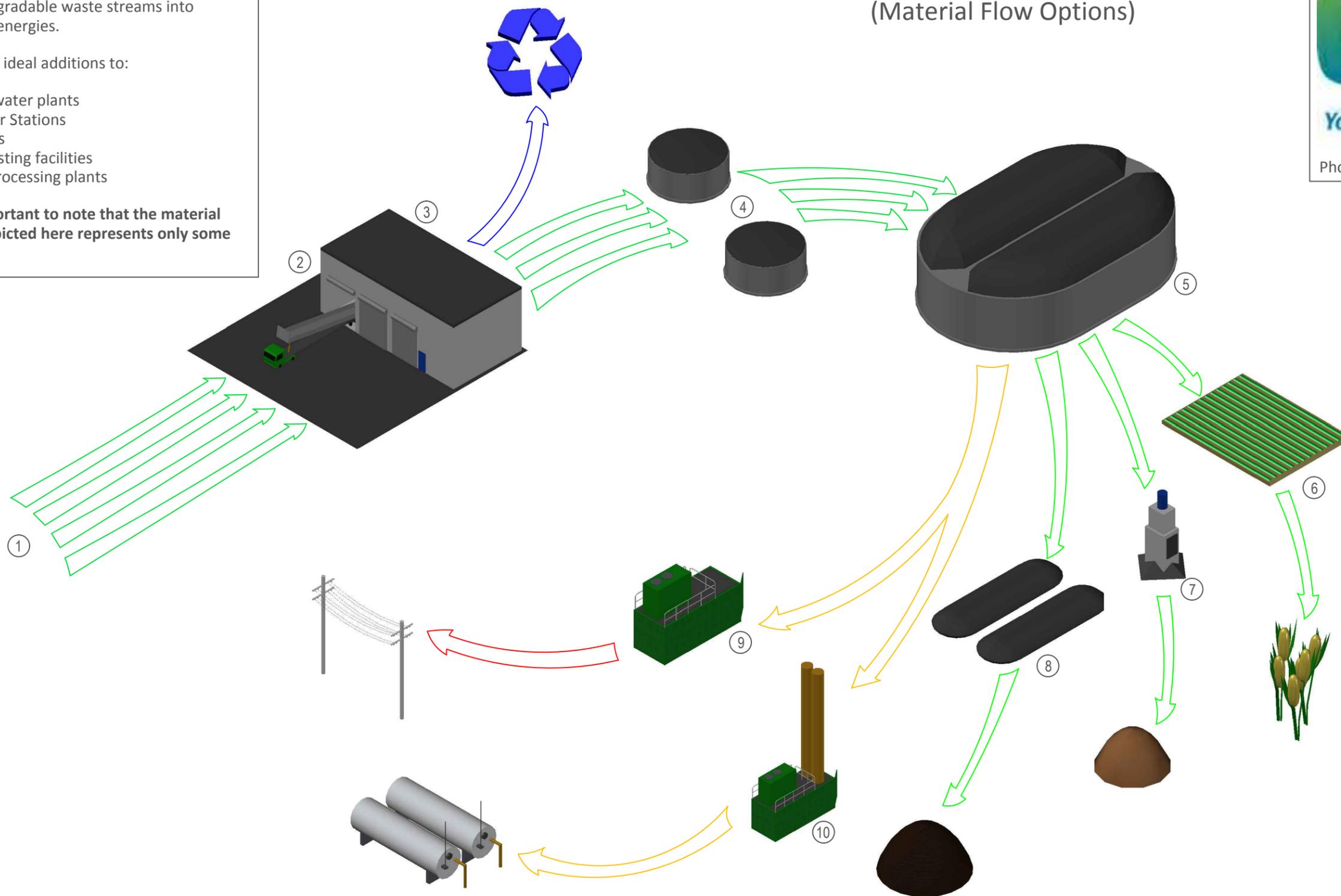
- separated solids
- gray water

Anaerobic Digestion Facilities turn a variety of biodegradable waste streams into useable energies.

They are ideal additions to:

- Wastewater plants
- Transfer Stations
- Landfills
- Composting facilities
- Food processing plants

It is important to note that the material flow depicted here represents only some options.



① WASTE HAULING  
- waste is hauled to the receiving facility

② WASTE RECEPTION  
- Outdoor or Indoor facility  
- Depackaging  
- Liquids/solids separation

③ OPTIONAL: PASTEURIZATION/PYROLYSIS  
- When required for removal of pathogens from substrates

④ HYDROLYZER TANKS  
- Phase 1 of digestion process

⑤ ANAEROBIC DIGESTER  
- Phase 2 of digestion process

⑥ AGRICULTURAL INTEGRATION  
- Effluent can be land-applied

⑦ SOLIDS SEPARATOR  
- Solids can be used as animal bedding  
- Solids can be part of compost

⑧ NUTRIENT RECOVERY  
- Geotubes convert solids into organic compost

⑨ COMBINED HEAT & POWER  
- Uses methane as fuel to generate electricity and heat

⑩ GAS UPGRADER  
- Purification to natural gas quality  
- Compression for use as vehicle fuel