

# Aries Clean Energy Gasification Technologies



Aries Clean Energy develops projects using its proven, proprietary gasification systems for municipal and industrial customers. Since 2010, Aries has been gasifying wastes that would otherwise be landfilled while producing renewable and sustainable energy.

- 10+ years of product development and operating history
- One full-scale commercial facility constructed and operating
- Feedstock includes wood waste, sludge / biosolids, municipal solid waste and energy crops
- Distributed systems reduce on-road transport
- Gasification will qualify as landfill diversion



- 90% volumetric reduction
- Eliminates land application and incineration
- Eliminates odor problems
- Eliminates harmful run-off
- Eliminates methane release



- Sustainable, zero landfill solutions
- Carbon neutral to negative
- Reduces hauling, which lowers costs and reduces CO2 emissions
- 90% volumetric reduction



- Technology produces clean, renewable distributed energy
- Systems can produce producer gas, thermal energy and/or electricity



## Waste Water Treatment

- Fluidized bed was specifically designed to gasify sewage sludge
- Downdraft can gasify sewage sludge in combination with waste wood or other bulky materials

## Small Renewable Power Generation

- Base system design for both fluidized bed and downdraft systems can produce 3+ MWs under SB1122

## Municipal Solid Waste

- Fluidized bed can gasify shredded municipal solid waste, yard waste, plastics, and food waste
- Downdraft system can gasify construction and demolition debris

## Forestry Waste

- Fluidized bed can gasify sawdust and other small particle wood waste from lumber mills
- Downdraft can gasify wood from lumber mills, wood chips and material from forestry maintenance