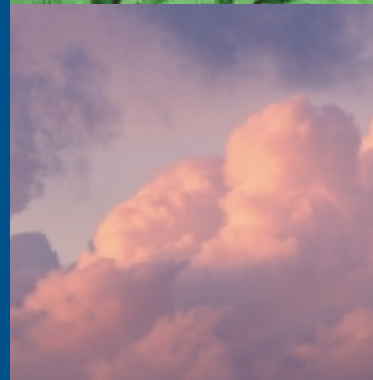
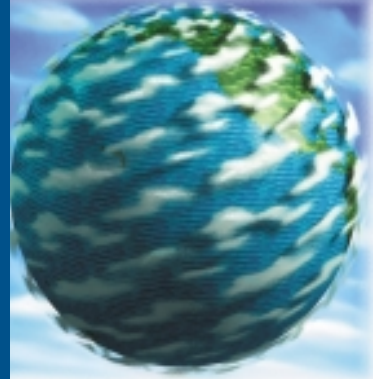


clean - efficient - renewable - energy





*Welcome to the world of Future Energy Resources Corporation. A place where waste products have value. Where energy generation has a positive environmental effect. Where the planet's future looks bright. A world of solutions. The FERCO World.*

### How the SilvaGas™ process works:

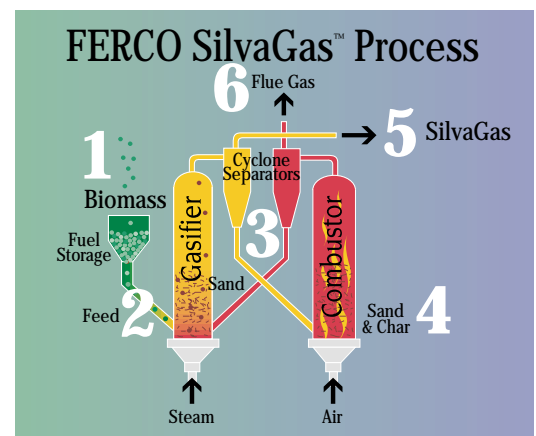
1. Wood chips or other biomass materials are fed into the gasifier.
2. In the gasifier the biomass is mixed with hot sand (1,800° F), turning it into SilvaGas and residual char.
3. The residual char and cooled sand (1,500° F) are separated from the SilvaGas by a cyclone separator and discharged to the combustor.
4. The sand is reheated in the combustor by adding air and burning the residual char. The reheated sand is removed from the combustion gas by a cyclone separator and returned to the gasifier.
5. The SilvaGas is cleaned and can be used for a variety of applications such as direct use in gas turbines, fuel cells or the production of chemicals.
6. The flue gas is a valuable source of heat that can be recovered for uses such as biomass drying, steam production, or direct heating.

Future Energy Resources Corporation, an Atlanta-based, privately held technology and project development company, was formed in 1992 to commercialize the "Low Inlet Gas Velocity High Throughput Biomass Gasification Process." This process, now known as the FERCO SilvaGas™ process, was originally developed by the Battelle Memorial Institute.

The award winning SilvaGas process converts forest residue, municipal solid waste, agricultural waste and energy crops - collectively called biomass - into SilvaGas, a gas that is directly substitutable for natural gas. SilvaGas provides power generators with a cost-effective and efficient method to meet renewable energy requirements.

FERCO selected the McNeil Generation Station in Burlington, Vermont, one of the largest wood-fired power generation plant in the world, as the location to build its first commercial scale plant.

Historically, biomass gasification technologies have been based on coal gasification designs. These conventional technologies do not take advantage of the high chemical reactivity of biomass. The FERCO SilvaGas process, however, was specifically designed for biomass fuels.



The SilvaGas process features a compact plant footprint. It is not an incineration or combustion process, but a true advanced biomass gasification process. The process operates at near atmospheric pressure and produces the energy rich SilvaGas without the need for pure oxygen.

Including the elimination of net CO<sub>2</sub> additions to the environment, the SilvaGas process reduces environmental impact by 90% compared to typical fossil fuel based power plants. It consumes abundant, renewable resources that would otherwise be disposed of in landfills or consumed in less efficient ways. It also produces energy from crops that can be cultivated on marginal quality land.

The scientific community recognized the value of the FERCO SilvaGas process in 1998 with the prestigious R&D 100 Award. By receiving this honor, FERCO joins the ranks of other notable recipients such as the ATM, the fax machine and liquid crystal display.

Other awards and endorsements of the SilvaGas process include the State of Vermont Governor's Award for Excellence in Pollution Prevention as well as direct support from the President of the United States and the Secretary of Energy.

SilvaGas represents a clean, affordable and environmentally sound alternative to fossil and nuclear fuels, a solution to the world's waste management issues and an opportunity to improve land use. FERCO is commercializing the SilvaGas process through licensing agreements and equity participation in projects worldwide.



*Future Energy Resources Corporation develops and implements solutions that improve the global environment by producing clean energy from agricultural, municipal and forestry waste and other renewable resources.*

*Simply put, at FERCO we convert waste and renewables into clean energy.*







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