



Are your heating costs
too high for you
and the environment?

High-Efficiency, Fully-Automated Wood Pellet / Wood Chip Boilers for Commercial, Institutional and Multi-Family Buildings

Made in the USA



ACTbioenergy
clean, green heating solutions

Clean, sustainable heating
solutions built on proven
technology, designed
to provide a practical
alternative to fossil fuels

www.ACTbioenergy.com

State-of-the-art, clean, green heat

Bioenergy heating systems create energy without relying on non-renewable fuel sources such as gas and oil. Instead, bioenergy systems use renewable biomass, such as plant materials, as their fuel source. ACT's Bioenergy Boiler™ uses a proprietary gasification technology to efficiently transform wood and other agricultural residuals into clean, green heat. We have applied more than 40 years of our professional experience in the field of renewable energy, including ASME certified boiler manufacture and service, to develop a bioenergy heating system which has proven itself as a real-world, practical and affordable alternative to heating with oil and gas. The core technology used in the ACT Bioenergy heating system has been increasing in popularity for several years throughout Europe where high fossil fuel costs and a desire to utilize clean, renewable energy sources have been prevalent for decades.



Institutional, commercial and residential buildings 10,000 to 100,000 sq.ft.

By utilizing proven technology and working with leading renewable energy experts, ACT has developed a system customized to meet the heating goals of mid-sized buildings:

Cost savings

- Up to 50% fuel cost savings vs. oil and gas
- Staff time is minimized through automation

Reliability and ease of use

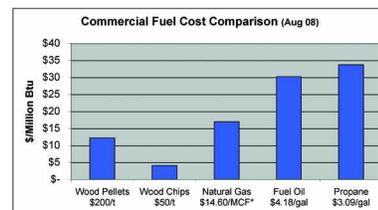
- Proven state-of-the-art technology with fully automatic fuel feeding and ash removal.
- Highest quality workmanship and materials
- Multiple safety interlocks



ACT Bioenergy will work with your team of engineers and architects to determine the right system for your needs including identifying fuel supply options and financing or grant opportunities. If you choose, we can also provide ongoing service and maintenance support for your installed system.

A cost effective alternative to gas and oil heating

The ACT Bioenergy system makes good economic sense. Not only is bioenergy good for the environment but it also utilizes less expensive fuel sources, potentially cutting your fuel costs in half.

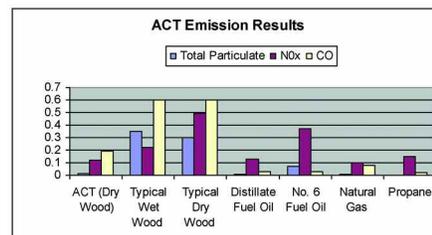


Why invest in a bioenergy heating system?

- Save up to 50% on heating costs versus heating with oil or gas.
- Reduce global warming by using biomass fuel in a system with extremely low emissions.
- Support community economic development by buying readily available wood and crop residues provided and processed by local companies.

High-efficiency with ultra-low emissions

The ACT Bioenergy heating system achieves up to 90% efficiency and has emissions that are comparable with oil or gas burning systems (based on US EPA data). Compared with an ACT system, a typical wood boiler only achieves 50-80% heating efficiency, and has ten times more particulate emissions.



Notes: ACT data for burning 10% moisture content wood fuel, Wet wood fuel is >30% moisture, Dry wood fuel is <30% moisture content. (Source: US-EPA Website: AP-42 Standard Emission Factors, 2007)



System Specifications/Features

- Size range (0.5, 0.75, 1, 1.2, 1.5, 1.7 MMBtu) - Can operate in series up to 3.4 MMBtu or more
- Rapid boiler response time - 4:1 turndown ratio
- Compact design - all units will fit through doors (4'8" w x 6'7" h)
- Maximum durability due to high quality stainless steel boiler and heat exchanger
- Efficiency up to 90% due optimized airflow and double insulated boiler
- Fully automated start-up, control and ash removal
- Flexible fuel types - wood pellets, wood chips or select agricultural residuals.
- Adaptable to supply radiant space heating, domestic hot water, forced-air heating and space cooling.

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