

University of Minnesota Morris Biomass Heat Plant



Project Summary

A new biomass, high pressure steam gasification boiler using locally grown corn stover to generate 15,000 pounds of steam will provide 85% of the campus' heating requirements. This \$9 million project includes a two story steel frame building, KMW gasifier, English Boiler, pollution control equipment, with research capabilities, including emission monitoring system, material weighing facility, sophisticated controls, video monitoring and web accessible.

Unique Characteristics

- First of its kind project using locally grown corn stover as fuel to generator steam
- Minimizes carbon output, helping the campus to achieve its goal of zero carbon emissions
- Future capacity to generate 330 KW of electricity via a high pressure steam turbine and power for a 800 ton absorption chiller