

## High Mowing School

Wilton, NH

### New Central District Heating System with Boiler House



#### Project Description:

- The school's 15 oil fired boilers were all aging. Their goals for replacement : to stabilize and reduce fuel costs for space heat and hot water—and to do it in a sustainable way.
- A plan was assembled to remove all of the existing oil boilers and to build a central boiler house to house both biomass boilers and new propane peaking and back up boilers.



- The biomass boilers are able to burn low cost dry wood chips—as well as wood pellets.
- This new energy diversity enables them to select from 3 different fuels, giving whole school boiler redundancy for security and cost stabilization.
- New buried pre-insulated district heating pipes now connect all nine buildings to the central boiler house

- **Dry Wood Chip / Wood Pellet Boiler System:**  
2 -- **Froling TX Model 150** Biomass Boilers (ASME Rated) with 2000 gallon buffer tank, in new boiler room.  
Total net output of biomass boilers = 1 Million BTU/Hour
- Exterior silos can hold a total of 40 tons of dry wood chips or 85 tons of wood pellets.
- **New Average Fuel Use:** 240 Tons of Dry Wood Chips —



**Displacing** 22,500 Gallons of Fuel Oil per year

• **Projected Average Annual Savings:** \$57,000



- **Installed and Maintained by** Froling Energy
- **Commissioned:** November 2014