# Stillwater Mills

## *Burrillville, RI*

### *Project Information*

- Completion Date: Currently under construction

### *Design Engineering*

- Six parallel 1500 ft standing column geo-exchange wells
- Variable frequency drive engaged for well water flow control and energy efficiency.
- Automatic purge of well water filters.
- Distributed ground source heat pumps utilized throughout the building
- Industrial geo-exchange control system with an extremely easy to use interface.
- High efficiency modulating boiler installed for back-up emergency heat, if needed. Periodic automatic operational tests included to ensure the emergency back-up boiler will operate if emergency heat is required.

Stillwater Mill was a textile mill previously zoned as Village Commercial. Historic preservation is a vital component of the renovation of the old textile mill into affordable housing focused on the concept of a sustainable community. This project consists of a new 47 unit housing complex using high efficiency ground source heat pumps. A geo-exchange (a.k.a. geothermal) system was designed which included six 1500 foot standing column wells piped into three heat exchangers located in the central plant to support a water-source heat pump loop.

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