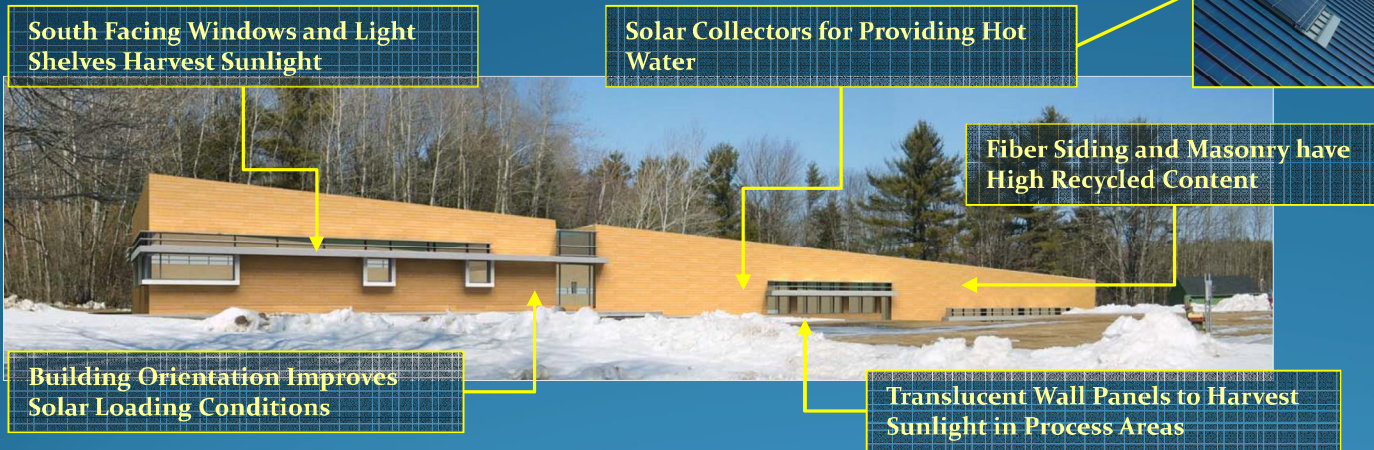


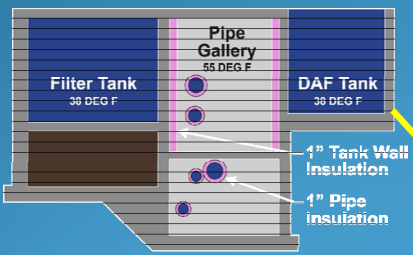
City of Portsmouth's Madbury WTP

Sustainable Design Aspects



- ### Materials
- Locally Obtained Materials –
 - Most Materials are from within 500 Miles of Portsmouth
 - Recycled Building Materials
 - Concrete, Rebar and Structural Steel
 - Iron for Process Piping
 - Recycle/Reuse of Construction Waste
 - Project Goal: Min. of 50% of Waste Diverted From Landfill
 - ~90% Achieved to Date

- ### Energy and Environment
- Reduced Energy Consumption
 - Process Water Heat Pumps and Heat Exchanger
 - Utilize Energy from Source Water for Building HVAC Energy
 - VFDs and Energy Efficient Motors
 - Enhanced Compartmentalization & Insulation of Building
 - Pipe Gallery Insulation Reduces Required Heating Load
 - Approximately 50% reduction in fuel consumption
 - Improved Stormwater Management
 - Porous Pavement at Bellamy Reservoir
 - Stormwater Detention and Treatment
 - Zero Liquid Waste from Treatment Plant Process



**Madbury will be the
1st LEED certified
Water Treatment Plant
in New England**

