Alternatives’ Whitin Mill
AGENCY MISSION
Skills + Supports = Success

AGENCY VISION
Real Jobs + Real Homes + Real Relationships = Satisfaction

RECOVERY/DISCOVERY VISION
Human Resilience + Opportunities for Meaningful Roles = A New Life Purpose
1. Plaza
2. 1826 Mill
   a. apartments
   b. artisan workshops
   c. mill exhibit
3. Forge
4. Center Building
   a. gallery
   b. offices
5. Multi-purpose Building
   a. theater
   b. reception
   c. restaurant
   d. employment opportunities
Historic mill is cutting edge

Adding solar and geothermal to river power, nonprofit turns Whittinsville complex to new uses

By Thomas C. Palmer Jr.
GLOBE STAFF

The historic community of Whittinsville in the Blackstone Valley has been on the leading edge of American technology since 1727, when the Mumford River was harnessed for power before the Industrial Age.

The little town south of Worcester had a forge two years later, and in 1809, only 15 years after Samuel Slater developed the new nation's first water-powered cotton mill in Pawtucket, R.I., Whittinsville had one, too.

Now the historic mill complex that started the Whiting family's empire in milling and manufacturing is on the cutting edge again. Work is

The renovated Old Brick Mill and Forge in Whittinsville will house residences, program space, a restaurant, and a museum.
- Geothermal provides 100% of the heating and cooling medium
- Hydroelectric provides 83% of electrical needs
- Solar power provides 5% of electrical needs
- 88% of anticipated energy requirements provided onsite
- Anticipated annual savings/revenue based on current energy prices equals $61,850 per year
Hydro Permitting – 6 Years of Bureaucracy!

• Multiple Federal, State & Town Agencies (26)
• Numerous Applications, Plans, Studies, Letters, Inspections & Hearings Required
  – Federal Energy Regulatory Commission (FERC) Application
  – Energy Facilities Siting Board Application
  – Run of the River Plan
  – Water Quality Plan
  – Emergency Action Plan
  – Existing Conditions Plan
  – Discharge Monitoring Plan
  – Historic Properties Management Plan
  – Soil & Erosion Control Plan
  – Outgassing Plan
  – Habitat Study
  – Rare Species Study
  – Existing Conditions Study
  – Downstream Study
  – Fish Study
  – Coastal Management Study (received exemption)
Alternative Energy – Financial Benefits

• Direct kWh Savings on Production
• Grants Available for Feasibility and Construction - MTC
• Renewable Energy Credits
• Other Benefits:
  – Net Metering if System Less Than 60 kW
  – Sale of Production to Tenants of Whitin Mill
Alternatives – ROI

Expenses

- Hydro Installation: $690,000
- PV Installation: $102,000
- Geothermal Installation: $243,000
  - Total Expense: $1,035,000
- Mass Technology Grants: $355,000
- Net Cost: $680,000

Savings

- Alternatives Production: 365,000 kWh/yr.
- Production Savings: $58,400
  (Based on price of .16 kWh)
- Sale of REC’s – @ .03 = $10,950/yr.
- Total Savings / Revenue: $69,350
- Return on Investment: 9.8 Years
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Alternatives wins the GOLD!
for being GREEN!

Celebrate with us Friday, August 5 at 10:00 am on the plaza!

Alternatives has been awarded the coveted LEED Gold certification for our GREEN restoration of the historic Whitin Mill. Please join us as we unveil the Gold Medalion and officially start up our WATER TURBINE.

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Why would a human service organization renovate an out-of-work mill?

- Commitment to community inclusion
- Our responsibility as a non-profit
- It is all about reciprocity!
1. Plaza
2. Forge
3. 1826 Brick Mill: apartments (upper levels) and artisan workshops, museum, and retail space (first floor and lower level)
4. Center Building: offices and gallery (lower level)
5. Performance Center: theater and reception space (upper level) and riverfront restaurant and resource center (lower level)
6. Office Building
7. Outdoor Workshop and Classroom: future phase