### High Efficiency Commercial Laundry

#### Date reviewed: 12/01/2014

<table>
<thead>
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<th>Description of Technology</th>
<th>Energy Saving Opportunity</th>
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| **A new laundry system that uses polymer beads with ambient water to clean all ranges of laundry materials. There is no need for hot water. The cleaning process was invented at University of Leeds.** | **Sector(s):**
| | ☑ Residential
| | ☑ **Commercial** & Industrial
| | **Applicability Criteria:** Commercial Laundry (hotels, Laundromats)
| | **Efficiency Improvement:** No need for hot water, gas savings
| | **Energy (%) Savings Potential:** 100% therm saving with some electricity penalty
| | **Demand (%) Reduction Potential:** Not Applicable

#### Strengths
- Due to the unique cleaning property of the polymer beads, there is no need for heating hot water, therefore significant gas savings
- Potential for water savings

#### Weakness
- Based on the RISE Engineering study, there is an electricity penalty
- Potential environmental impact of the beads is unclear

#### Third Party Analysis/Previous MTAC Reviews
- RISE Engineering have done a technical analysis for Liberty Gas in NH
- Suppliers Known to MTAC: Xeros
- MTAC Status: Acknowledged to have energy savings potential and referred to individual PA for their own EE program consideration

#### Market Development Issues
- **Cost:** $35,000/unit with $11,000 annual cost
- **Market Risk and Barriers:** Electricity penalty
- **Time to Market:** Currently on market
- **Simple Pay-back (Years):**
  - ~ 9.6 years(without incentive)
  - ~5.2 years(New Construction)