

High Efficiency Commercial Laundry

Date reviewed: 12/01/2014

Description of Technology		Energy Saving Opportunity	
<p>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.</p>		Sector(s):	<input checked="" type="checkbox"/> Residential <input checked="" type="checkbox"/> 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		Weakness	
<ul style="list-style-type: none"> 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 		<ul style="list-style-type: none"> 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		Suppliers Known to MTAC	MTAC Status
<p>RISE Engineering have done a technical analysis for Liberty Gas in NH</p>		<p>Xeros</p>	<p>Acknowledged to have energy savings potential and referred to individual PA for their own EE program consideration</p>
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)		
		 	