

The Table below is based on information from Table 2 that appeared in "Weatherization Agency Looks for 30% Energy Savings", Energy Design Update, February 2004, pg. 8.

**Annotated Table 2—Cost-Effective Weatherization Measures  
in a Typical House in Schenectady, New York<sup>1</sup>**

<b>Basic Package of Weatherization Measures</b>	<b>Measure Cost (\$)</b>	<b>Annual Energy Bill Savings (\$)</b>	<b>Simple Payback (years)</b>
Air sealing	310	135	2.3
Lower water heater thermostat setting	10	45	0.22
Install water heater wrap	30	5	6
Install programmable thermostat	110	32	3.4
<b>Improve attic insulation from R-6 to R-38</b>	<b>720</b>	<b>65</b>	<b>11</b>
<b>Improve wall insulation from R-7 to R-13</b>	<b>650</b>	<b>39</b>	<b>16.7</b>
Install low-flow showerhead and insulate hot water pipes	50	10	5
Install 5 compact fluorescent lamps	75	38	2
Overhead cost (32%)	626		N/A
Totals	2,581	369	7
Percent savings in energy bills		15.5%	
<b>Install DHR instead of wall &amp; attic Insulation</b>	<b>500</b>	<b>138</b>	<b>3.6</b>
<b>Adjusted Totals</b>	<b>1,711</b>	<b>403</b>	<b>4.3 not 7</b>
<b>Expanded Package of Weatherization Measures</b>			
<b>Replace refrigerator (from 1,155 kWh/yr to 479 kWh/yr)</b>	<b>650</b>	<b>81</b>	<b>8</b>
Overhead cost (32%)	208		
Totals	3,439	450	7.6
Percent savings in energy bills		19.0%	
<b>Installing DHR instead of refrigerator</b>	<b>\$500</b>	<b>138</b>	<b>3.6</b>
<b>Adjusted Totals</b>	<b>3,289</b>	<b>507</b>	<b>6.5 not 7.6</b>

Table 2. For a typical house in Schenectady, New York, Martin Schweitzer and Joel Eisenberg looked at the effects of a basic package of weatherization measures (designed to cost about \$2,500) as well as the effects of an expanded package of weatherization measures (including all measures determined to be cost-effective).

Footnote 1: Annotations are based upon a PP&L Winter Relief Assistance Program (WRAP) field evaluation of a GFX Drainwater Heat Recovery (DHR) System; summarized @ [http://gfxtechnology.com/showerhead\\_vs\\_gfx.html](http://gfxtechnology.com/showerhead_vs_gfx.html).