

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 York¹**

Basic Package of Weatherization Measures	Measure Cost (\$)	Annual Energy Bill Savings (\$)	Simple Payback (years)
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
Improve attic insulation from R-6 to R-38	720	65	11
Improve wall insulation from R-7 to R-13	650	39	16.7
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%	
Install DHR instead of wall & attic Insulation	500	138	3.6
Adjusted Totals	1,711	403	4.3 not 7
Expanded Package of Weatherization Measures			
Replace refrigerator (from 1,155 kWh/yr to 479 kWh/yr)	650	81	8
Overhead cost (32%)	208		
Totals	3,439	450	7.6
Percent savings in energy bills		19.0%	
Installing DHR instead of refrigerator	\$500	138	3.6
Adjusted Totals	3,289	507	6.5 not 7.6

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).