

Level 1 Retrofitting

Upgrade	Payback Time in Years	Added Costs	Annual Savings	10-Year Savings	1-Year ROI
Programmable thermostat	0.6	\$115	\$180	\$1,800	156.5%
CFLs	0.8	\$60	\$80	\$800	133.3%
Hot water heater jacket	0.8	\$25	\$30	\$300	120%
Low-flow shower heads	0.9	\$180	\$300	\$3,000	111.1%
Heating system tune-up	1.1	\$200	\$180	\$1,800	90%
Duct sealing	1.5	\$450	\$300	\$3,000	66.7%
ENERGY STAR dishwasher	1.5	\$20	\$13	\$130	65%
Water filter instead of bottled water	1.9	\$200	\$104	\$1,040	52%
High-efficiency toilets	2.0	\$50	\$25	\$250	50%
Total Savings and Average Payback/ROI	Payback Time in Years:	Added Costs:	Annual Savings:	10-Year Savings:	ROI:
	1.2	\$1,300	\$1,212	\$11,120	93.8%

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Level 2 Remodeling

Upgrade	Payback Time in Years	Added Costs	Annual Savings	10-Year Savings	1-Year ROI
Solar-powered path and garden lights	2.1	\$375	\$176	\$1,760	46.9%
ENERGY STAR windows	2.3	\$700	\$300	\$3,000	42.9%
ENERGY STAR skylights	2.3	\$70	\$30	\$300	42.9%
Formaldehyde-free, high R-value insulation in walls	2.5	\$750	\$300	\$3,000	40%
Formaldehyde-free, high R-value insulation in basement walls	2.5	\$750	\$300	\$3,000	40%
Duct insulation	2.5	\$450	\$180	\$1,800	40%
Solar attic fan	2.5	\$500	\$200	\$2,000	40%
CFLs	2.7	\$108	\$40	\$400	37%
No-VOC paints	2.8	\$70	\$25	\$250	35.7%
Low-flow faucets	3	\$300	\$100	\$1,000	33.3%
High performance water heater	3.1	\$150	\$48	\$480	32%
Air leakage sealing	3.1	\$554	\$180	\$1,800	32%
Water filters for whole house	3.2	\$1,000	\$312	\$3,120	31.2%
Whole-house fans	3.6	\$450	\$125	\$1,250	27.8%
On demand hot water heater	3.8	\$450	\$120	\$1,200	26.7%
High-efficiency furnace	3.8	\$1,145	\$300	\$3,000	26.2%
Shade trees	4	\$1,200	\$300	\$3,000	25%
ENERGY STAR clothes washer	4.3	\$300	\$72	\$720	24%
Recycled mulch	4.5	\$172	\$38	\$380	22.1%

Level 2 Remodeling

Upgrade	Payback Time in Years	Added Costs	Annual Savings	10-Year Savings	1-Year ROI
ENERGY STAR ceiling fans	5	\$300	\$60	\$600	20%
Attic and ceiling insulation	5	\$600	\$120	\$1,200	20%
ENERGY STAR refrigerator	5	\$30	\$6	\$60	20%
High-efficiency heat pump	5	\$1,000	\$200	\$2,000	20%
Small-scale greywater system	5	\$300	\$60	\$600	20%
Bamboo floors	5	\$525	\$105	\$1,050	20%
Window treatments, including shades and thermal curtains	5	\$300	\$60	\$600	20%
Recycled-fiber carpeting	5.6	\$280	\$50	\$500	17.9%
Rainwater collection system	6	\$120	\$20	\$200	16.7%
Composting	6.5	\$325	\$50	\$500	15.4%
FSC-certified decking	6.5	\$899	\$138	\$1,380	15.4%
Thru-wall room-to-room fans	6.6	\$66	\$10	\$100	15.2%
IAQ measures, including new HVAC filters	6.6	\$250	\$38	\$380	15.2%
Tubular skylights	6.7	\$300	\$45	\$450	15%
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Total Savings and Average Payback/ROI	Payback Time in Years:	Added Costs:	Annual Savings:	10-Year Savings:	ROI:
	4.2	\$14,789	\$4,108	\$41,080	27.2%

Level 3 Advance System Renovating

Upgrade	Payback Time in Years	Added Costs	Annual Savings	10-Year Savings	1-Year ROI
High-efficiency toilets	6.7	\$150	\$23	\$450	15%
Reflective roof	6.7	\$2,000	\$300	\$6,000	15%
Formaldehyde-free insulation in double walls	7.5	\$900	\$120	\$2,400	13.3%
Radiant floor heating	7.3	\$4,000	\$550	\$11,000	13.8%
Thermal mass	7.5	\$3,000	\$400	\$8,000	13.3%
Southern overhangs	8	\$1,440	\$180	\$3,000	12.5%
Solar water heater	8.9	\$2,500	\$280	\$5,600	11.2%
Ground-source heat pump	10	\$30,000	\$3,000	\$60,000	10%
Cross ventilation	10	\$1,200	\$120	\$2,400	10%
Green roof	10	\$8,000	\$800	\$16,000	10%
Large-scale water conservation, including rain barrels and greywater system	10.2	\$2,200	\$216	\$4,320	9.8%
Photovoltaic system	10.8	\$13,000	\$1,200	\$60,000	9.2%
Total Savings and Average Payback/ROI	Payback Time in Years:	Added Costs:	Annual Savings:	10-Year Savings:	ROI:
	8.6	\$68,390	\$7,189	\$179,170	11.9%