

High Performance Home Operating Costs Savings Tool

Breezy Pines



Model Overview

4 Bedroom, 2 Bath, 2 Car Garage Base Price #####
 Living Room, Dining Room, Family Room
 12'x25' Covered Porch

Living Area	2083
Garage	454
Entry	63
Porch	300
Total	2900 SF

Model Inputs

Energy Cost
 Yearly Energy Cost Escalation

0.12	\$/Kwh
5%	%

	Energy Saving Features						Total
	GREENBLOCK Structural walls	High Performance Windows	Spray foam insulation under roof deck	High Efficiency Heating and Cooling System	Energy Star Appliances	Compact Fluorescent Lighting	
Energy Savings in kWh	242	140	63	70	28	121	664
Monthly Cost Savings	\$ 29	\$ 17	\$ 8	\$ 8	\$ 3	\$ 15	\$ 80

Notes: Energy modeling data based on Code Compliant home of the same exact layout and dimensions with normalized usage
 Energy modeling completed by Calcs-Plus 2009

Yearly Cost Savings Analysis



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		Energy Saving Features							
		GREENBLOCK Structural walls	High Performance Windows	Spray foam insulation under roof deck	High Efficiency Heating and Cooling System	Energy Star Appliances	Compact Flourescant Lighting	Total	Monthly Savings
First Cost Impact		Standard	Standard	Standard	Standard	Standard	Standard		
Year 1		\$348	\$202	\$91	\$101	\$40	\$174	\$956	\$80
Year 2		\$366	\$212	\$95	\$106	\$42	\$183	\$1,004	\$84
Year 3		\$384	\$222	\$100	\$111	\$44	\$192	\$1,054	\$88
Year 4		\$403	\$233	\$105	\$117	\$47	\$202	\$1,107	\$92
Year 5		\$424	\$245	\$110	\$123	\$49	\$212	\$1,162	\$97
Year 6		\$445	\$257	\$116	\$129	\$51	\$222	\$1,220	\$102
Year 7		\$467	\$270	\$122	\$135	\$54	\$233	\$1,281	\$107
Year 8		\$490	\$284	\$128	\$142	\$57	\$245	\$1,345	\$112
Year 9		\$515	\$298	\$134	\$149	\$60	\$257	\$1,413	\$118
Year 10		\$541	\$313	\$141	\$156	\$63	\$270	\$1,483	\$124
Year 11		\$568	\$328	\$148	\$164	\$66	\$284	\$1,557	\$130
Year 12		\$596	\$345	\$155	\$172	\$69	\$298	\$1,635	\$136
Year 13		\$626	\$362	\$163	\$181	\$72	\$313	\$1,717	\$143
Year 14		\$657	\$380	\$171	\$190	\$76	\$329	\$1,803	\$150
Year 15		\$690	\$399	\$180	\$200	\$80	\$345	\$1,893	\$158
Year 16		\$724	\$419	\$189	\$210	\$84	\$362	\$1,988	\$166
Year 17		\$761	\$440	\$198	\$220	\$88	\$380	\$2,087	\$174
Year 18		\$799	\$462	\$208	\$231	\$92	\$399	\$2,192	\$183
Year 19		\$839	\$485	\$218	\$243	\$97	\$419	\$2,301	\$192
Year 20		\$881	\$509	\$229	\$255	\$102	\$440	\$2,416	\$201
Year 21		\$925	\$535	\$241	\$267	\$107	\$462	\$2,537	\$211
Year 22		\$971	\$562	\$253	\$281	\$112	\$485	\$2,664	\$222
Year 23		\$1,019	\$590	\$265	\$295	\$118	\$510	\$2,797	\$233
Year 24		\$1,070	\$619	\$279	\$310	\$124	\$535	\$2,937	\$245
Year 25		\$1,124	\$650	\$293	\$325	\$130	\$562	\$3,084	\$257
Year 26		\$1,180	\$683	\$307	\$341	\$137	\$590	\$3,238	\$270
Year 27		\$1,239	\$717	\$323	\$358	\$143	\$620	\$3,400	\$283
Year 28		\$1,301	\$753	\$339	\$376	\$151	\$651	\$3,570	\$297
Year 29		\$1,366	\$790	\$356	\$395	\$158	\$683	\$3,748	\$312
Year 30		\$1,434	\$830	\$373	\$415	\$166	\$717	\$3,936	\$328
Total Savings		\$23,153	\$13,394	\$6,027	\$6,697	\$2,679	\$11,576	\$63,526	



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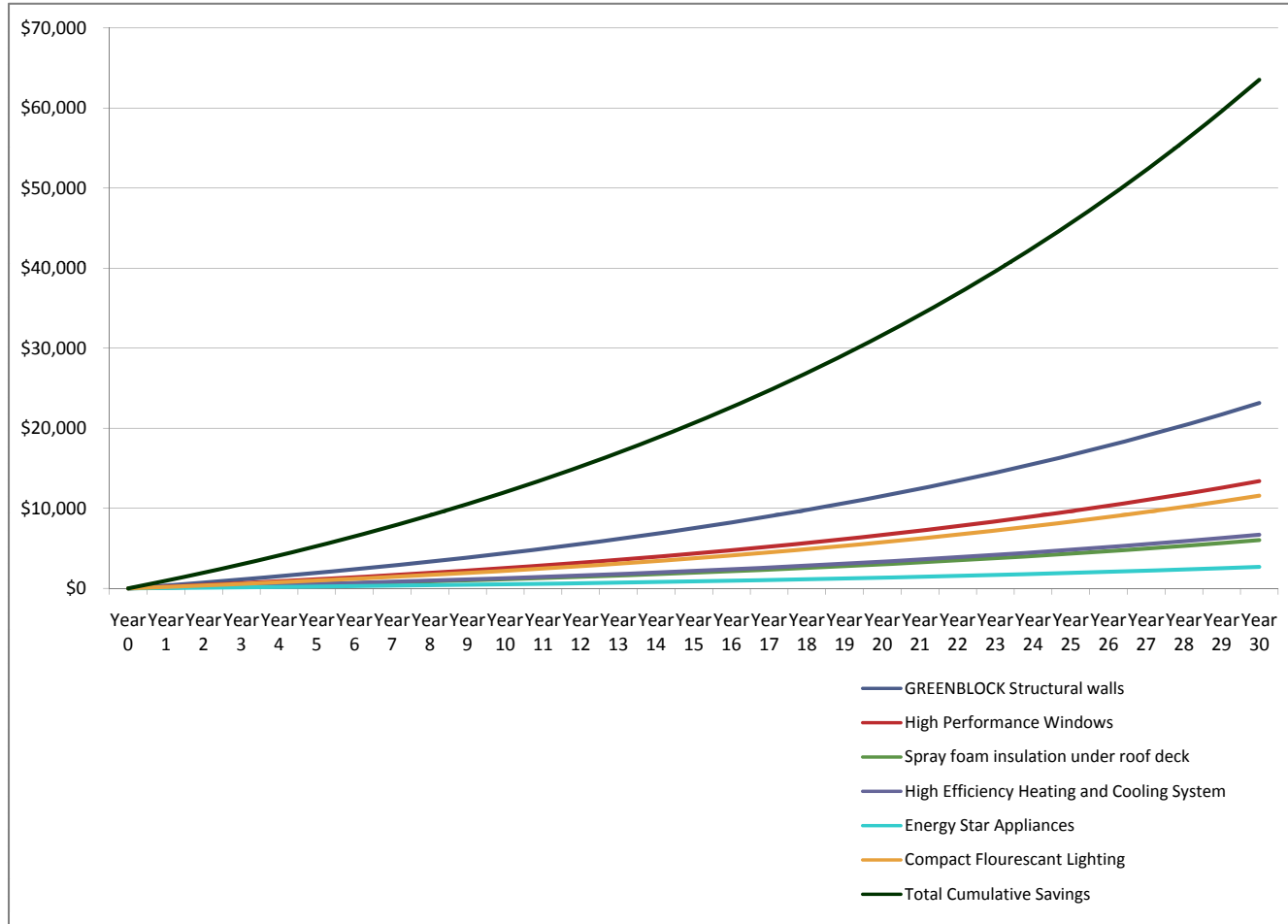
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Cummulative Cash Flow

	Energy Saving Features						Total Cumulative Savings
	GREENBLOCK Structural walls	High Performance Windows	Spray foam insulation under roof deck	High Efficiency Heating and Cooling System	Energy Star Appliances	Compact Flourescant Lighting	
Year 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Year 1	\$348	\$202	\$91	\$101	\$40	\$174	\$956
Year 2	\$714	\$413	\$186	\$207	\$83	\$357	\$1,960
Year 3	\$1,099	\$636	\$286	\$318	\$127	\$549	\$3,014
Year 4	\$1,502	\$869	\$391	\$434	\$174	\$751	\$4,121
Year 5	\$1,926	\$1,114	\$501	\$557	\$223	\$963	\$5,283
Year 6	\$2,370	\$1,371	\$617	\$686	\$274	\$1,185	\$6,504
Year 7	\$2,837	\$1,641	\$739	\$821	\$328	\$1,419	\$7,785
Year 8	\$3,328	\$1,925	\$866	\$963	\$385	\$1,664	\$9,130
Year 9	\$3,843	\$2,223	\$1,000	\$1,111	\$445	\$1,921	\$10,543
Year 10	\$4,383	\$2,536	\$1,141	\$1,268	\$507	\$2,192	\$12,026
Year 11	\$4,951	\$2,864	\$1,289	\$1,432	\$573	\$2,475	\$13,584
Year 12	\$5,547	\$3,209	\$1,444	\$1,604	\$642	\$2,773	\$15,219
Year 13	\$6,173	\$3,571	\$1,607	\$1,785	\$714	\$3,086	\$16,936
Year 14	\$6,830	\$3,951	\$1,778	\$1,976	\$790	\$3,415	\$18,739
Year 15	\$7,520	\$4,350	\$1,958	\$2,175	\$870	\$3,760	\$20,633
Year 16	\$8,244	\$4,769	\$2,146	\$2,385	\$954	\$4,122	\$22,620
Year 17	\$9,005	\$5,209	\$2,344	\$2,605	\$1,042	\$4,502	\$24,708
Year 18	\$9,804	\$5,671	\$2,552	\$2,836	\$1,134	\$4,902	\$26,899
Year 19	\$10,642	\$6,157	\$2,770	\$3,078	\$1,231	\$5,321	\$29,200
Year 20	\$11,523	\$6,666	\$3,000	\$3,333	\$1,333	\$5,761	\$31,616
Year 21	\$12,447	\$7,201	\$3,240	\$3,601	\$1,440	\$6,224	\$34,153
Year 22	\$13,418	\$7,763	\$3,493	\$3,881	\$1,553	\$6,709	\$36,817
Year 23	\$14,438	\$8,352	\$3,759	\$4,176	\$1,670	\$7,219	\$39,614
Year 24	\$15,508	\$8,972	\$4,037	\$4,486	\$1,794	\$7,754	\$42,551
Year 25	\$16,632	\$9,622	\$4,330	\$4,811	\$1,924	\$8,316	\$45,635
Year 26	\$17,812	\$10,304	\$4,637	\$5,152	\$2,061	\$8,906	\$48,873
Year 27	\$19,051	\$11,021	\$4,960	\$5,511	\$2,204	\$9,526	\$52,272
Year 28	\$20,352	\$11,774	\$5,298	\$5,887	\$2,355	\$10,176	\$55,842
Year 29	\$21,718	\$12,564	\$5,654	\$6,282	\$2,513	\$10,859	\$59,590
Year 30	\$23,153	\$13,394	\$6,027	\$6,697	\$2,679	\$11,576	\$63,526

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Cummulative Cash Flow Graph

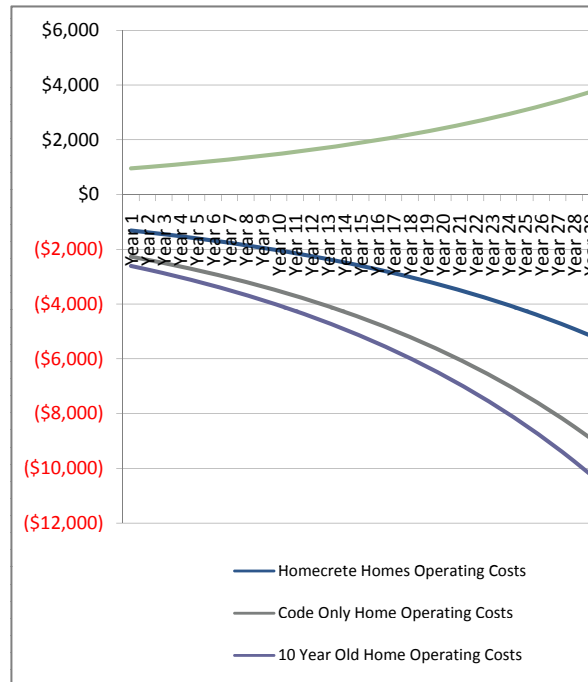




High Performance Home Operating Costs Savings Tool

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Operational Analysis	Homecrete Homes annual operating savings	Homecrete Homes Operating Costs	Code Only Home Operating Costs	10 Year Old Home Operating Costs
Year 1	\$956	(\$1,315)	(\$2,271)	(\$2,609)
Year 2	\$1,004	(\$1,381)	(\$2,385)	(\$2,739)
Year 3	\$1,054	(\$1,450)	(\$2,504)	(\$2,876)
Year 4	\$1,107	(\$1,522)	(\$2,629)	(\$3,020)
Year 5	\$1,162	(\$1,598)	(\$2,760)	(\$3,171)
Year 6	\$1,220	(\$1,678)	(\$2,898)	(\$3,330)
Year 7	\$1,281	(\$1,762)	(\$3,043)	(\$3,496)
Year 8	\$1,345	(\$1,850)	(\$3,196)	(\$3,671)
Year 9	\$1,413	(\$1,943)	(\$3,355)	(\$3,855)
Year 10	\$1,483	(\$2,040)	(\$3,523)	(\$4,047)
Year 11	\$1,557	(\$2,142)	(\$3,699)	(\$4,250)
Year 12	\$1,635	(\$2,249)	(\$3,884)	(\$4,462)
Year 13	\$1,717	(\$2,361)	(\$4,078)	(\$4,685)
Year 14	\$1,803	(\$2,479)	(\$4,282)	(\$4,920)
Year 15	\$1,893	(\$2,603)	(\$4,496)	(\$5,166)
Year 16	\$1,988	(\$2,733)	(\$4,721)	(\$5,424)
Year 17	\$2,087	(\$2,870)	(\$4,957)	(\$5,695)
Year 18	\$2,192	(\$3,014)	(\$5,205)	(\$5,980)
Year 19	\$2,301	(\$3,164)	(\$5,465)	(\$6,279)
Year 20	\$2,416	(\$3,323)	(\$5,739)	(\$6,593)
Year 21	\$2,537	(\$3,489)	(\$6,026)	(\$6,922)
Year 22	\$2,664	(\$3,663)	(\$6,327)	(\$7,269)
Year 23	\$2,797	(\$3,846)	(\$6,643)	(\$7,632)
Year 24	\$2,937	(\$4,039)	(\$6,975)	(\$8,014)
Year 25	\$3,084	(\$4,240)	(\$7,324)	(\$8,414)
Year 26	\$3,238	(\$4,453)	(\$7,690)	(\$8,835)
Year 27	\$3,400	(\$4,675)	(\$8,075)	(\$9,277)
Year 28	\$3,570	(\$4,909)	(\$8,479)	(\$9,741)
Year 29	\$3,748	(\$5,154)	(\$8,903)	(\$10,228)
Year 30	\$3,936	(\$5,412)	(\$9,348)	(\$10,739)
	\$63,526	(\$87,356)	(\$150,883)	(\$173,339)



Homecrete Savings	
Vs Code Home	Vs Existing Home
\$63,526	\$85,982



High Performance Home Operating Costs Savings Tool

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Mortgage Payoff Calculator (if you applied operating cost savings to pay down loan)

Base Price **\$199,800**
 Down Payment % **10%**
 Loan Amount **\$179,820**

Estimated Monthly Savings **\$80** Starting in Year 1
 Estimated Energy Inflation **5%**

Inputs

Loan Amount	\$179,820
Term (years)	30
Interest Rate	6.500%
First Payment Date	9/1/2009
Monthly Payment	\$1,136.58

Results	w/ additional	
	Original	Payments
Final Payment	8/1/2039	6/1/2032
Loan Reduced By:	86 months	
Total Interest Paid	\$229,351	\$170,231
Total Interest Saved	\$59,120	