



Greening Buildings and Communities: Costs and Benefits

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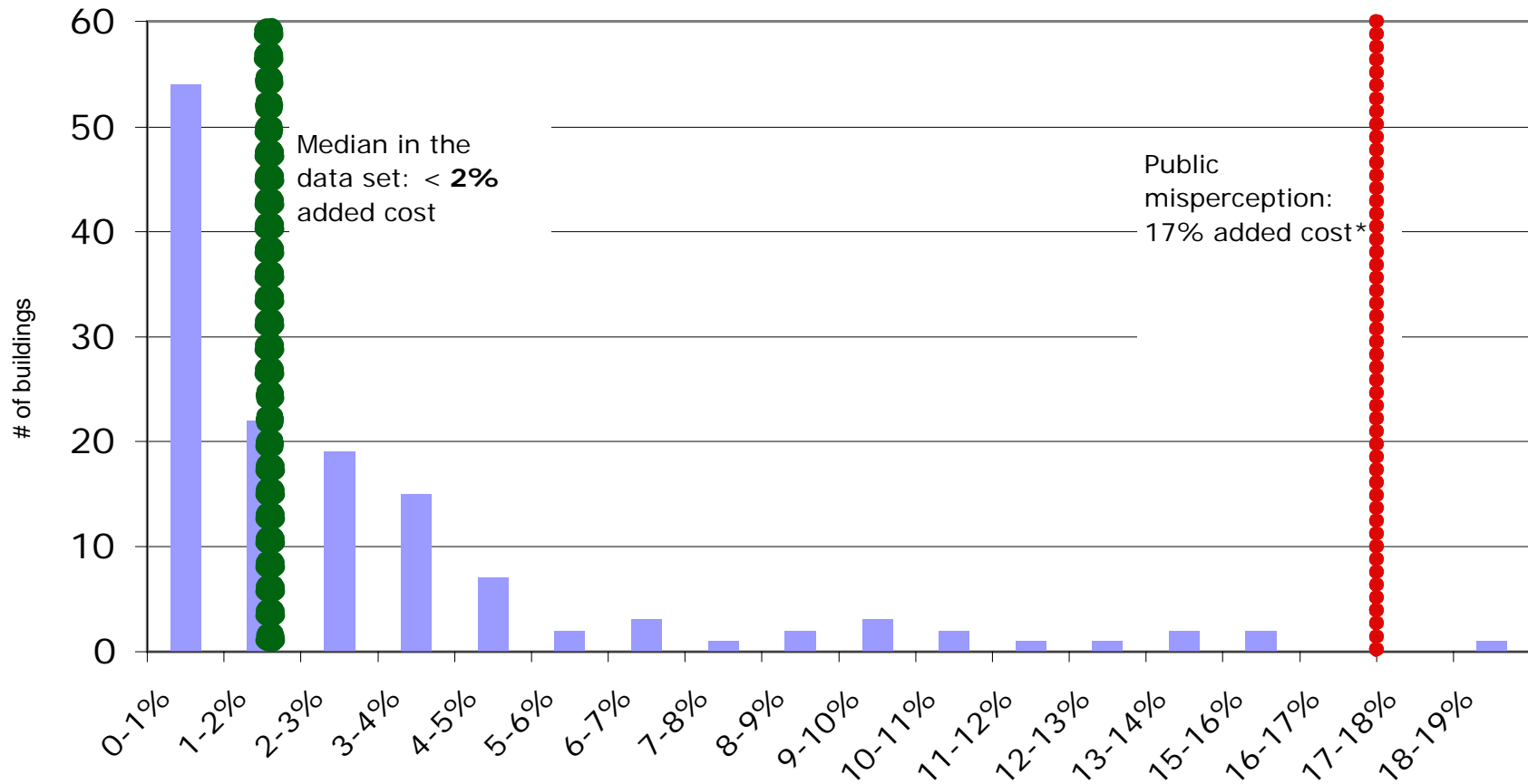
- US Green Building Council
- American Institute of Architects
- American Public Health Association
- National Association of Realtors
- BOMA International
- Federation of American Scientists
- Real Estate Roundtable
- National Association of State Energy Officials
- Enterprise Community Partners
- World Green Building Council

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Cost of building Green

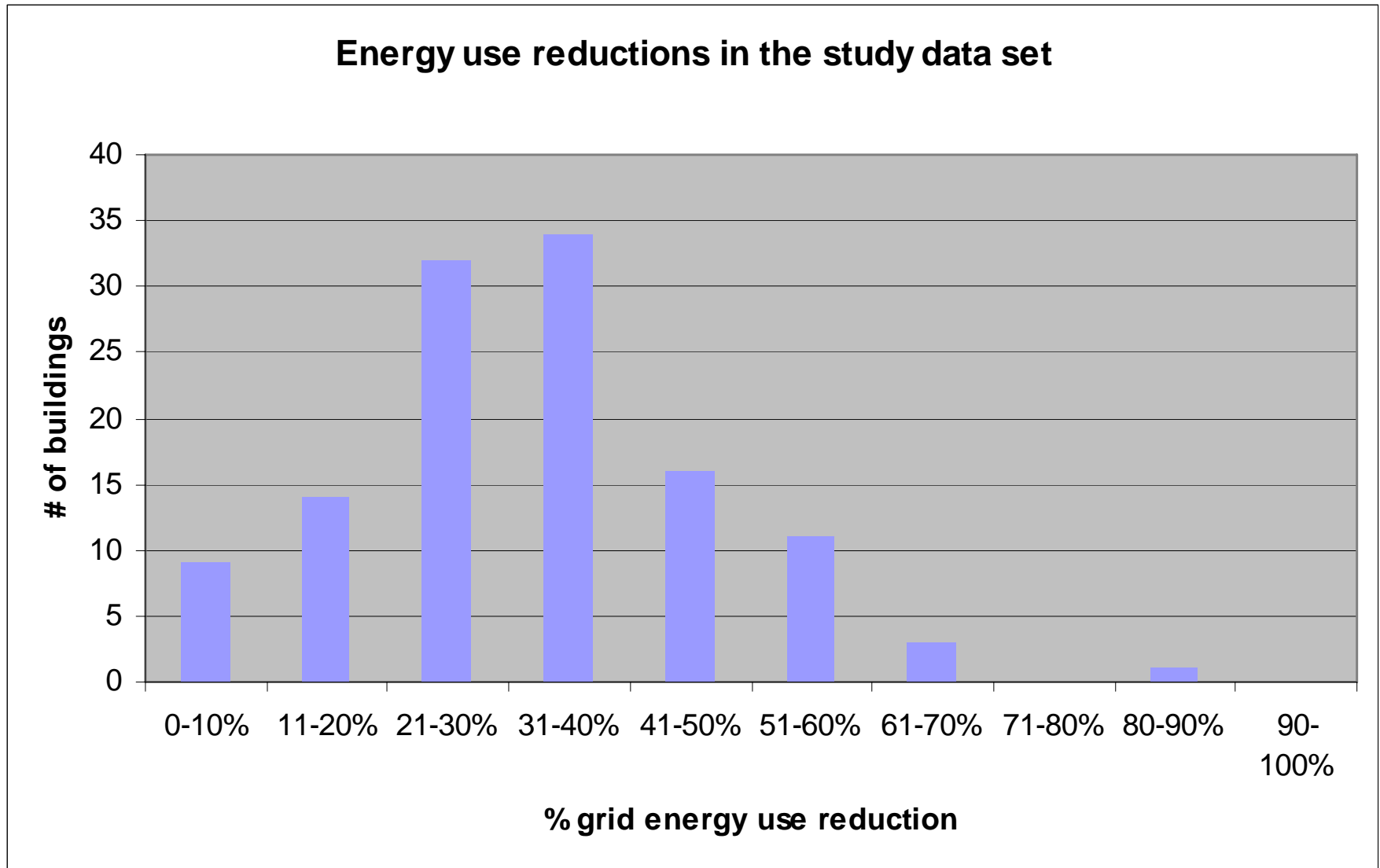
Additional cost to build green: Evidence from 146 green buildings



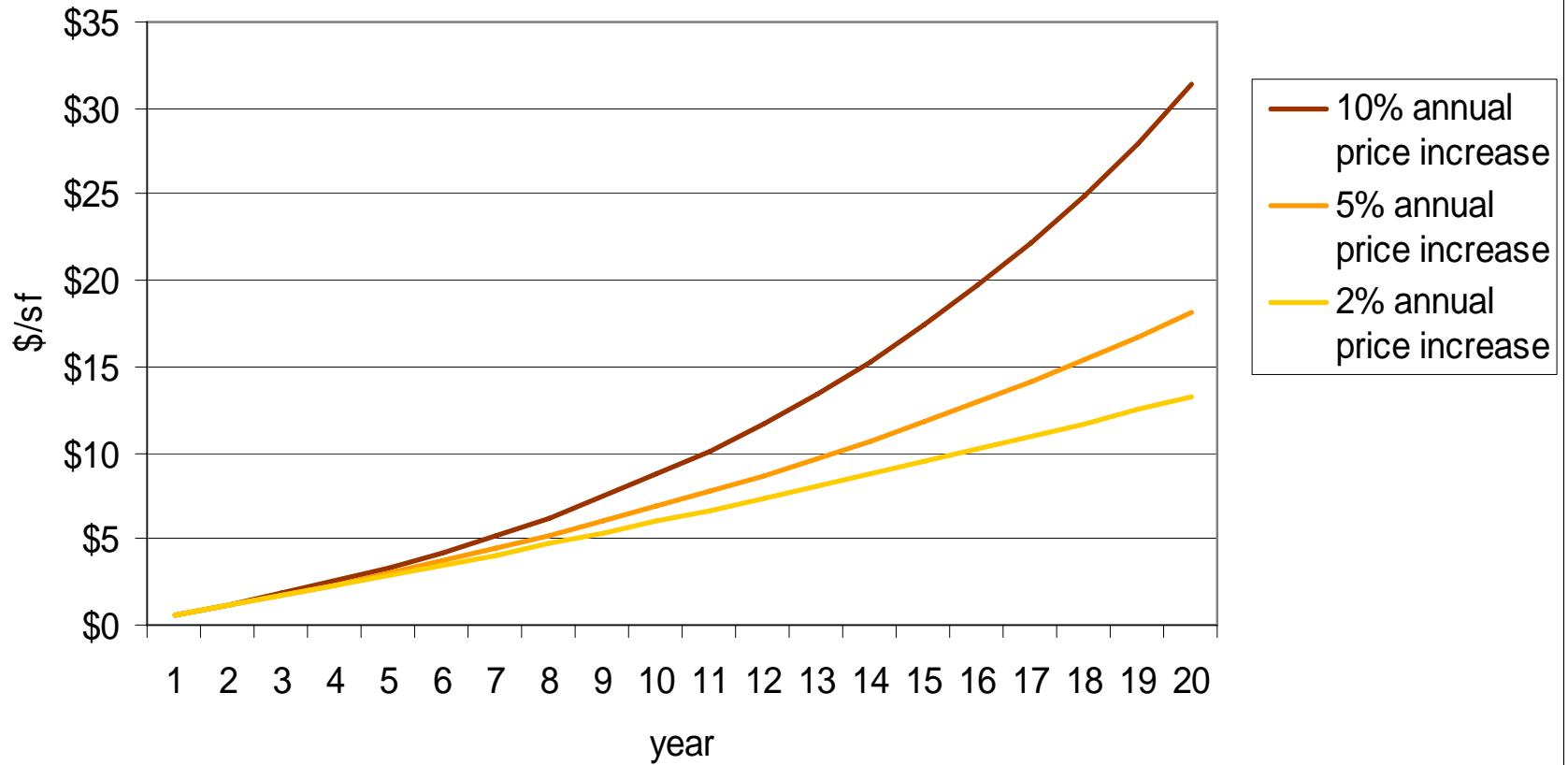
*2007 opinion survey by World Business Council for Sustainable Development

Range of reported premiums

Energy savings in green vs. conventional buildings

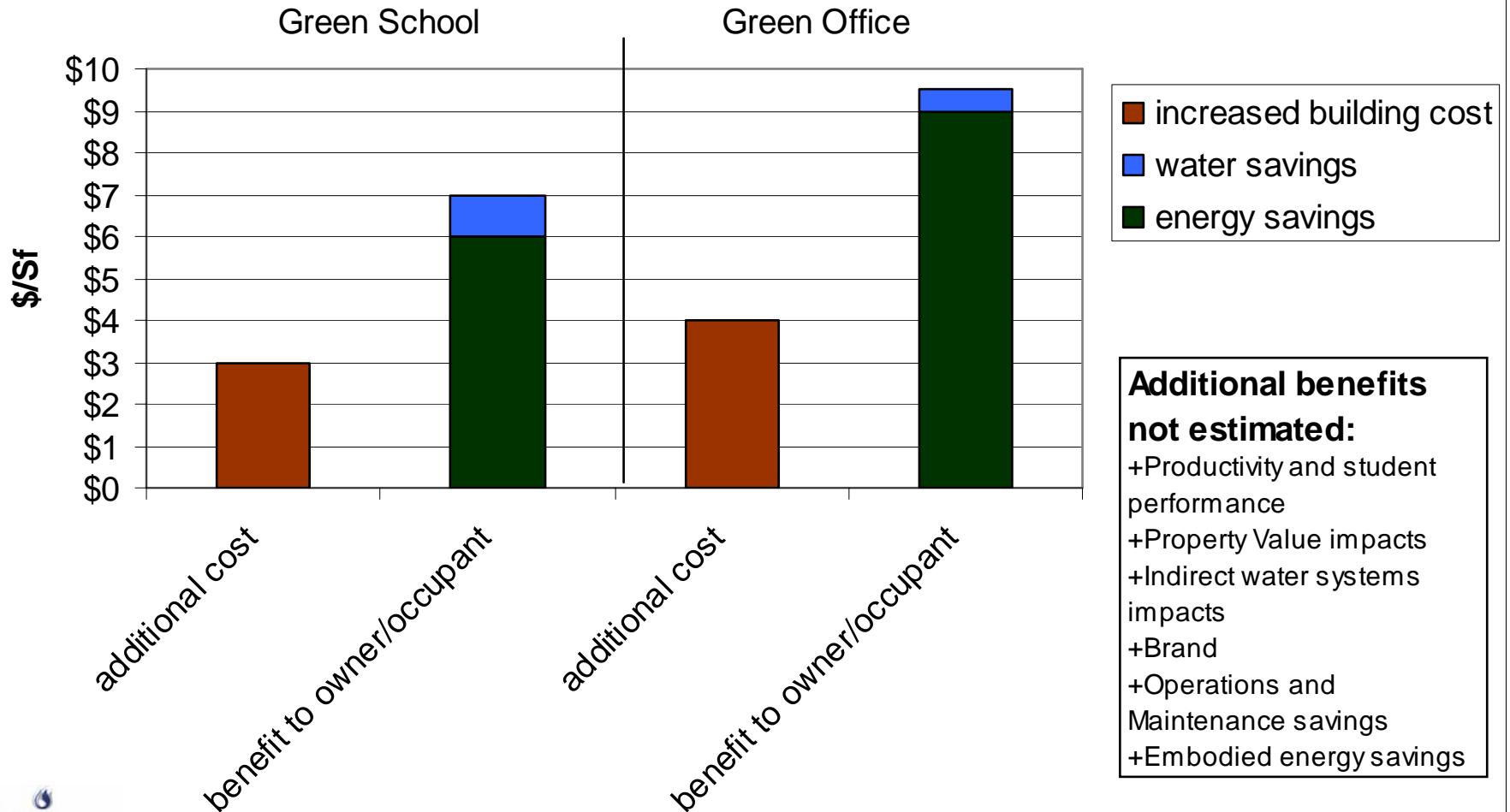


Cumulative energy savings in green offices: sensitivity to energy price increases



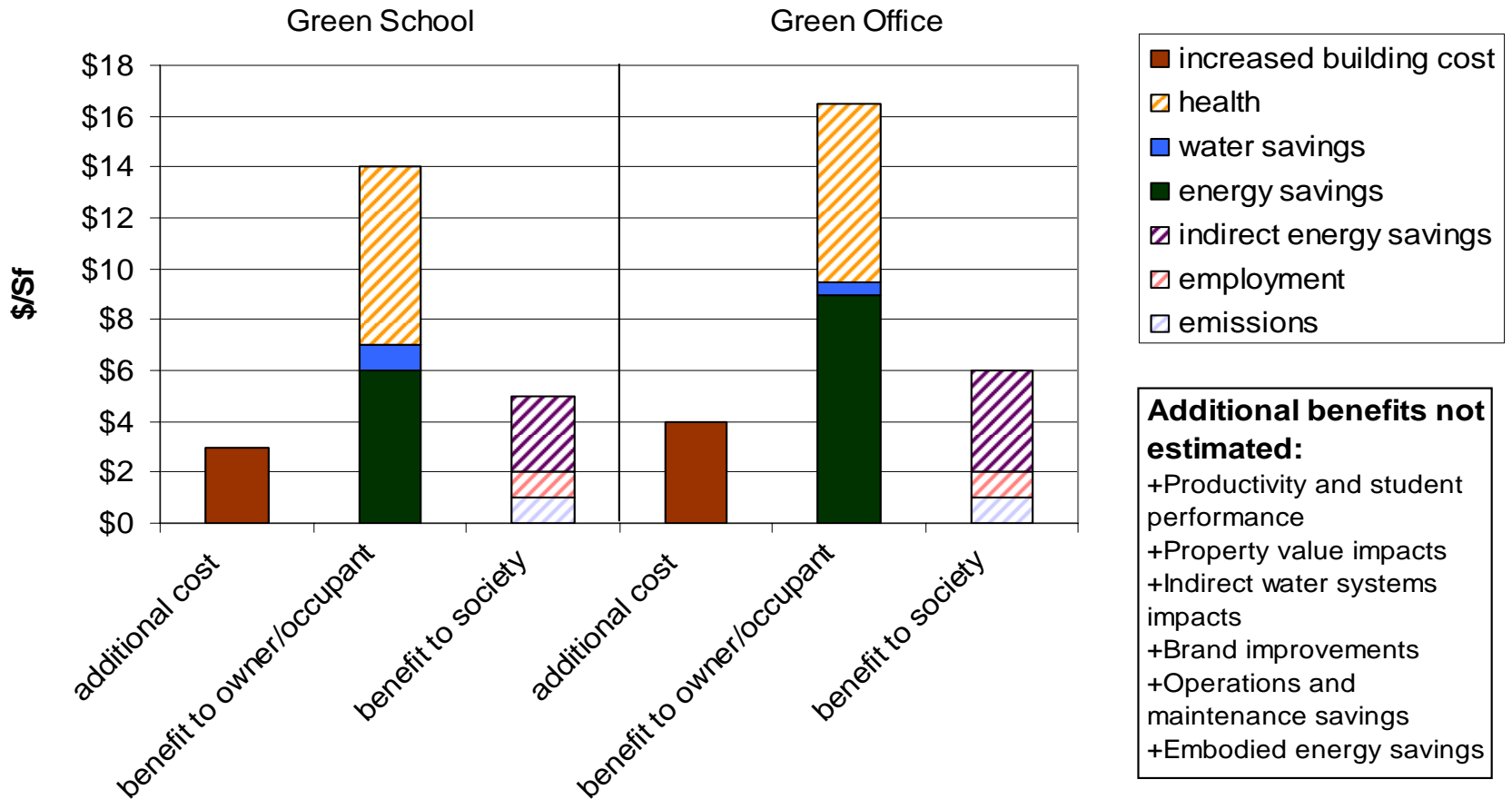
Energy and water savings alone outweigh additional first costs of building green.

**Costs and Benefits of Green Buildings:
Present value of 20 years of estimated impacts based on study data
set collected from recent green buildings**



Full range of green building benefits much greater than additional first costs.

Costs and Benefits of Green Buildings: Present value of 20 years of estimated impacts based on study data set and synthesis of relevant research*



*There is significantly greater uncertainty, and less consensus around methodologies for estimating health and societal benefits.

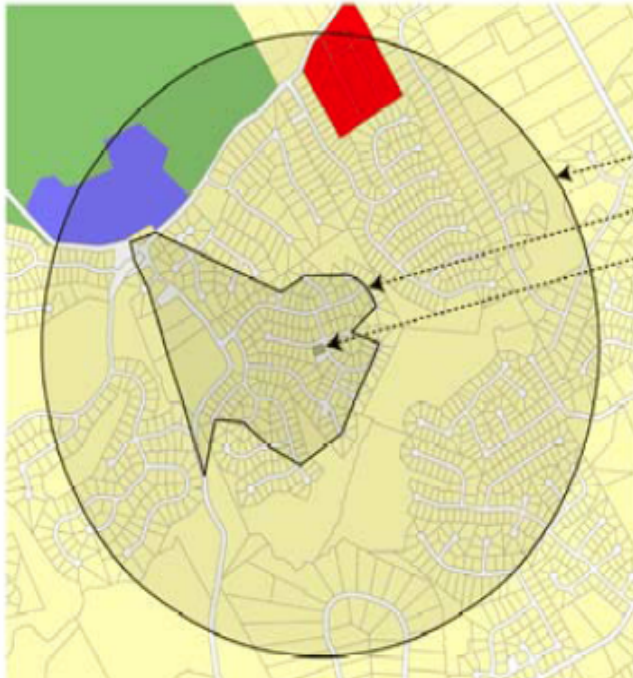
Conservation development: 20-30% reduced development costs

Token Creek cost Comparison Summary: Applied Ecological Services

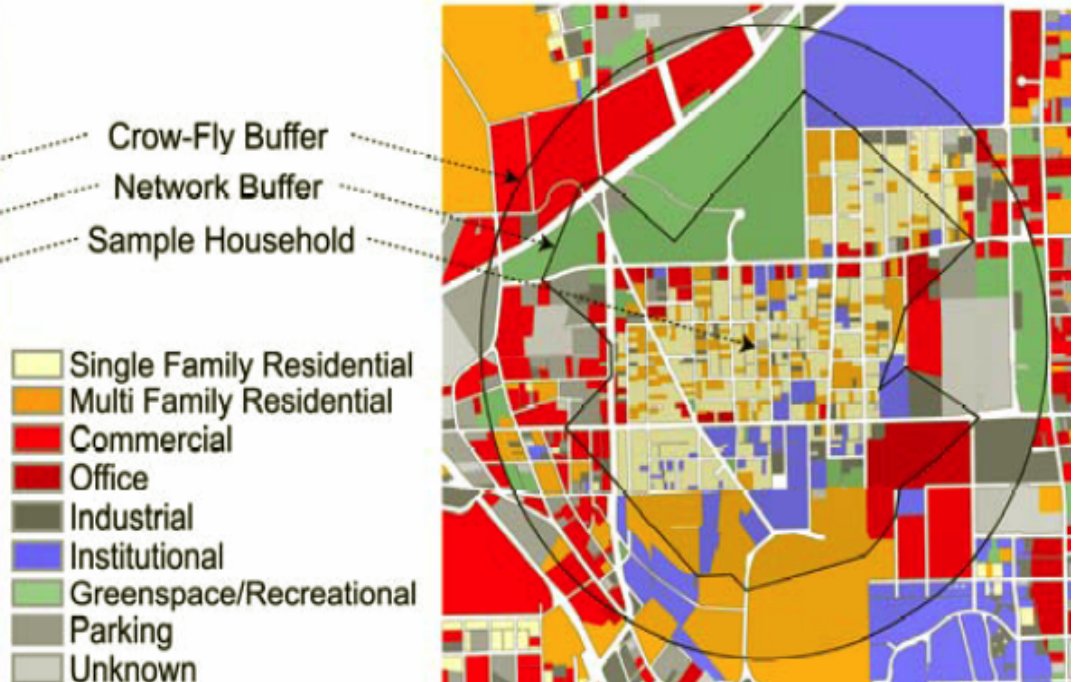
Description	Conventional sprawl costs	Conservation Cost	\$ Change	% Change
GRADING SUBTOTAL	\$1,425,418	\$947,142	\$478,276	-34%
ROADWAY SUBTOTAL	\$2,313,896	\$1,512,412	\$801,484	-35%
STORM SEWER SUBTOTAL	\$1,145,639	\$519,544	\$626,095	-55%
SANITARY SUBTOTAL	\$1,502,840	\$1,105,282	\$397,558	-26%
WATERMAIN SUBTOTAL	\$1,657,739	\$1,233,850	\$423,889	-26%
EROSION CONTROL SUBTOTAL	\$35,684	\$35,684	\$0	0%
OFFSITE SANITARY SUBTOTAL	\$26,250	\$26,250	\$0	0%
LANDSCAPE/RESTORATION SUBTOTAL	\$284,200	\$665,192	-\$380,992	134%
AMENITIES SUBTOTAL	\$999,222	\$732,240	\$266,982	-27%
CONTINGENCIES/ENG/LEGAL (25%)	\$2,347,722	\$2,347,722	\$0	0%
Totals for Project	\$11,738,610	\$9,125,318	\$2,613,291	-22%
Totals Per Unit	\$38,237	\$26,839	\$11,397	-30%

Transportation savings

Disconnected



Connected



Annual transportation savings per household: \$600-\$700/ HH or \$4000 with one less car

Annual health savings: \$100-\$200/person

Total health and transportation related savings: \$5-\$30/sf