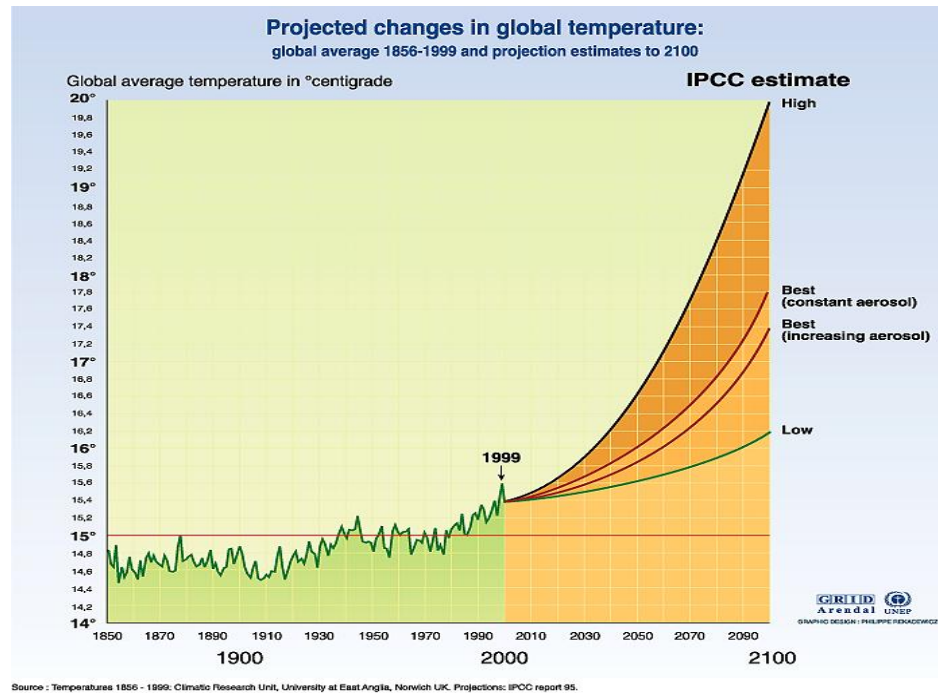


# City of Sebastopol

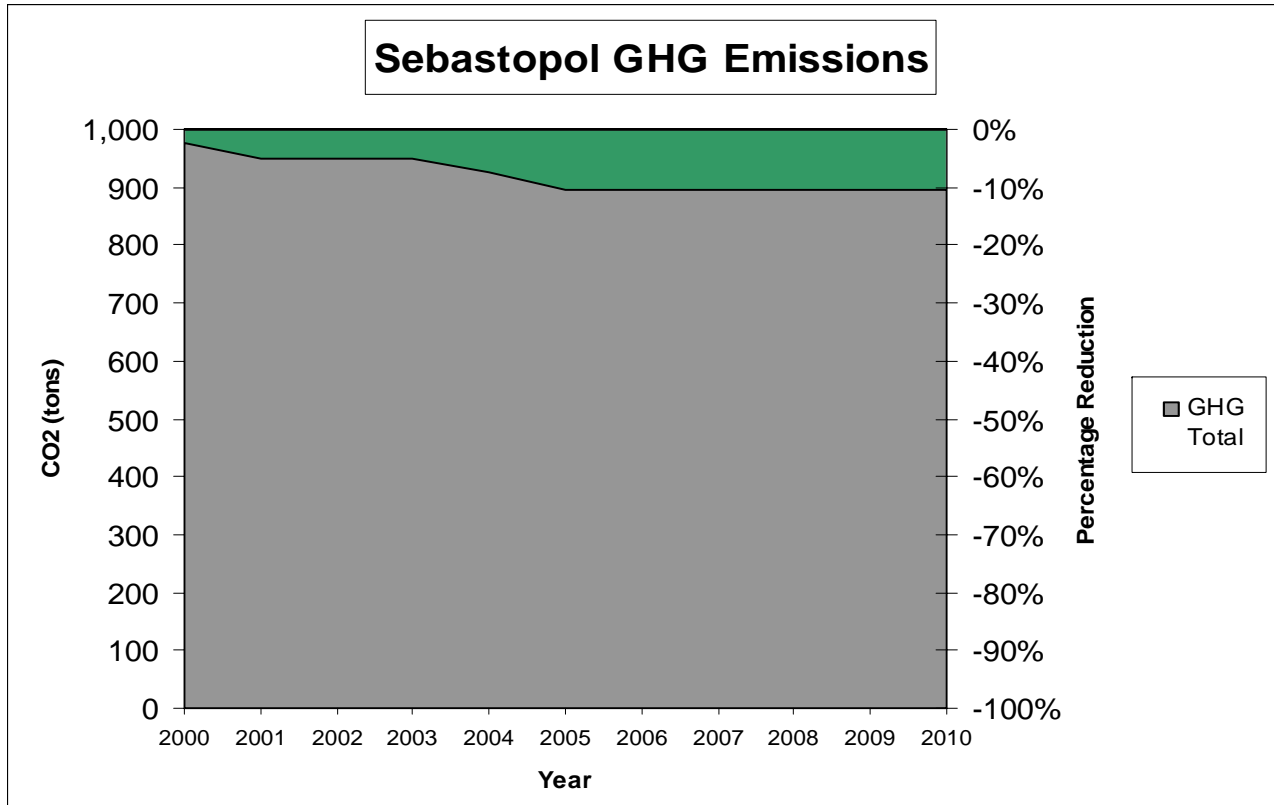
## Action Plan Analysis



## Global Warming Pollution

**8.8% CO2  
Reduction**

# Phase 1: Completed Projects

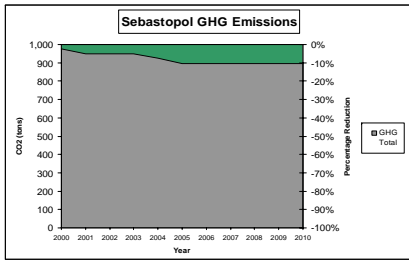


City of

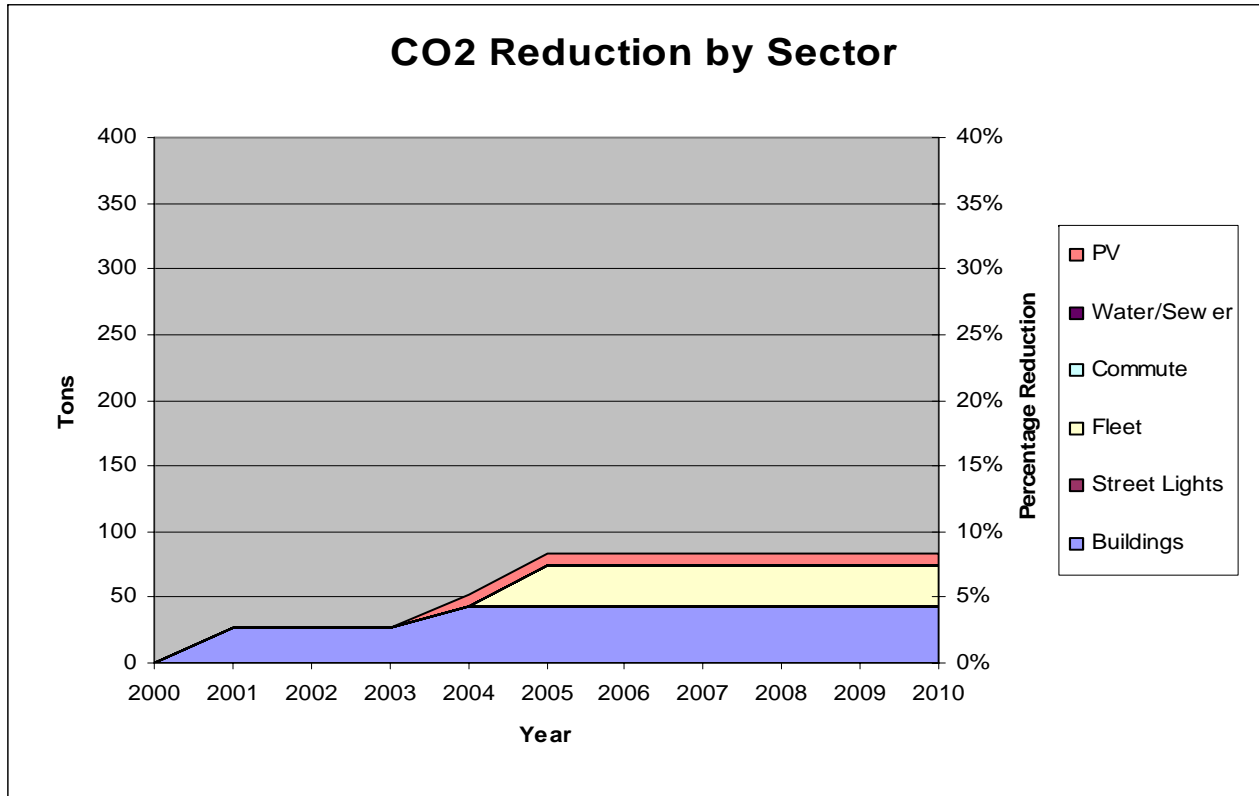
SEBASTOPOL



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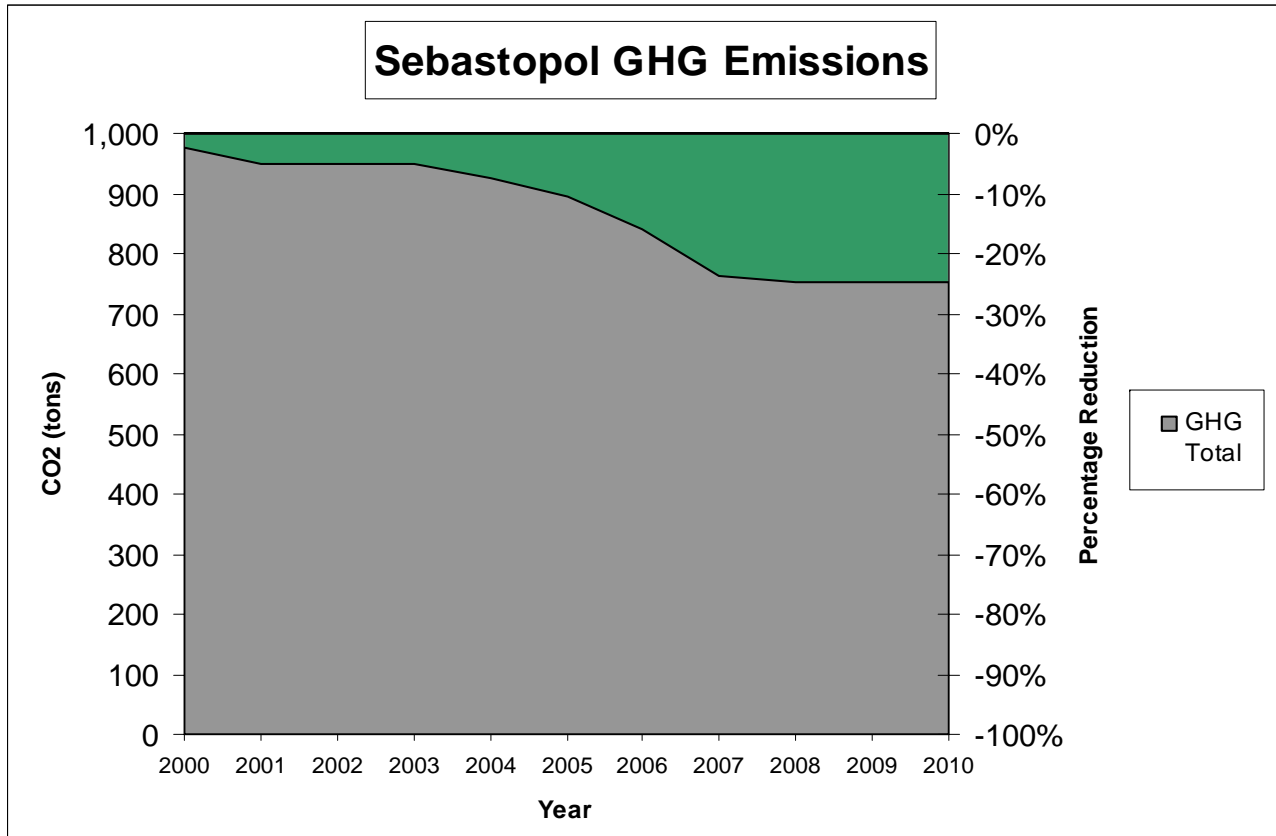
# Phase 1: Completed Projects



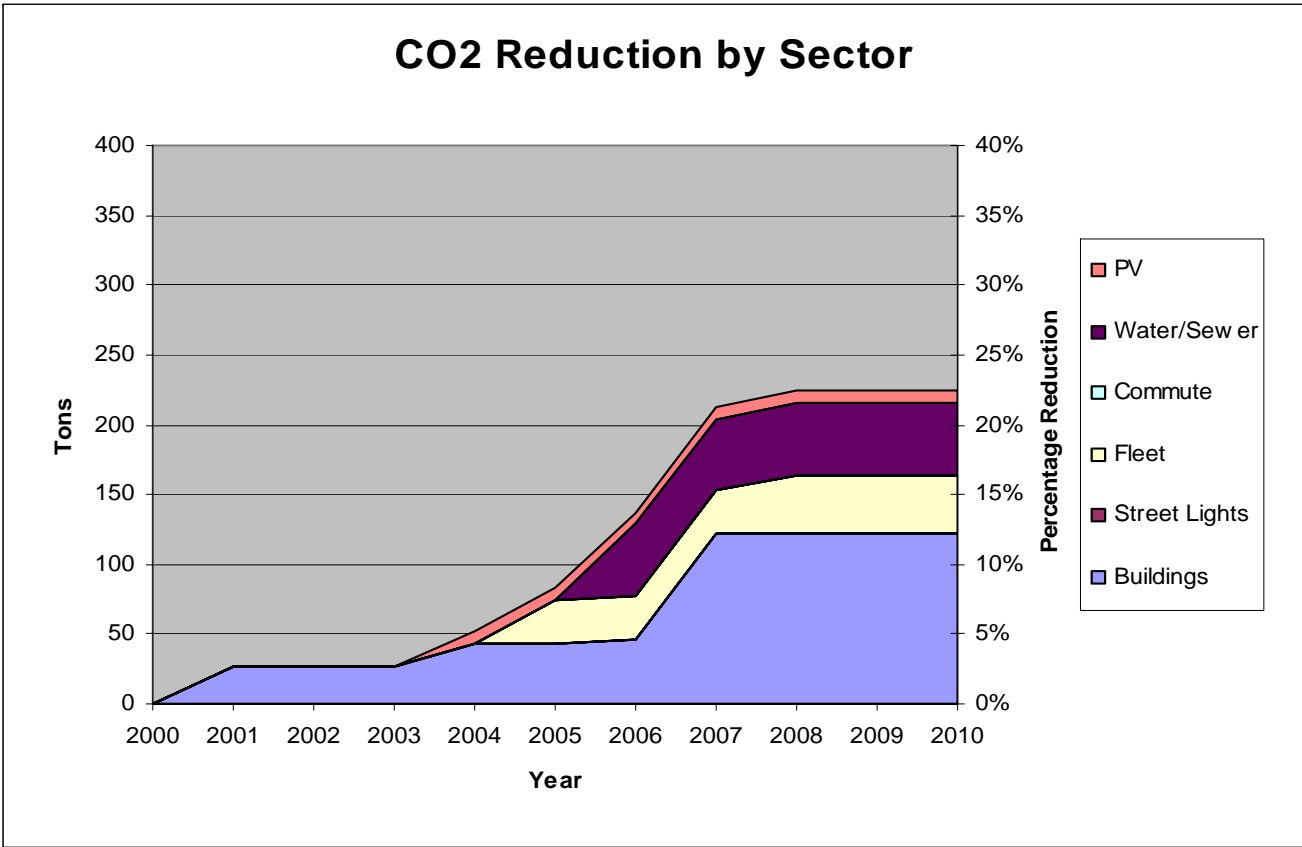
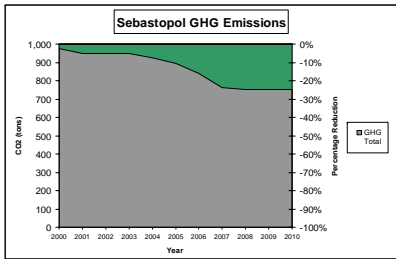
**86 tons CO2 Annual Reduction**

**23.4% CO2  
Reduction**

# Phase II: Completed and Planned Projects



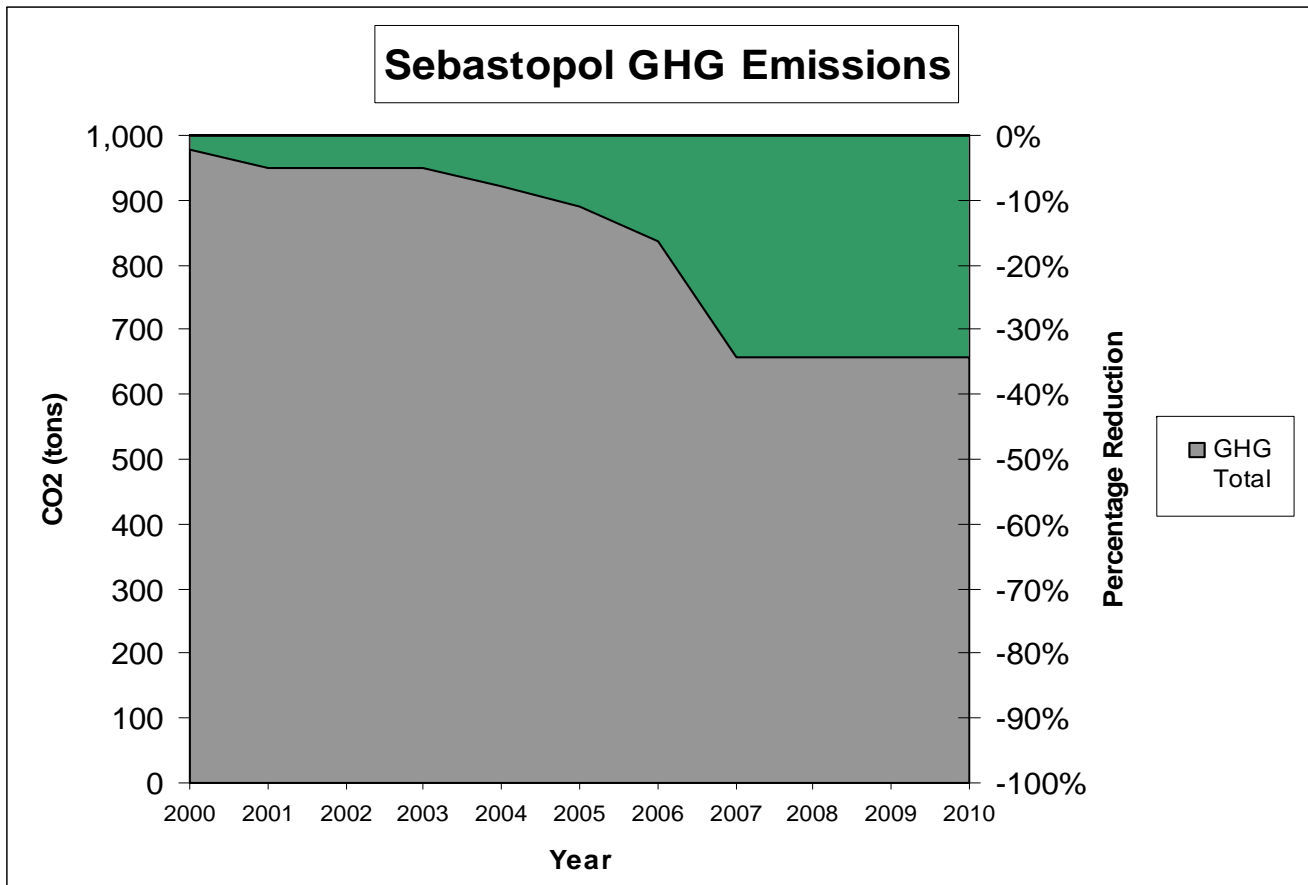
# Phase II: Completed and Planned Projects



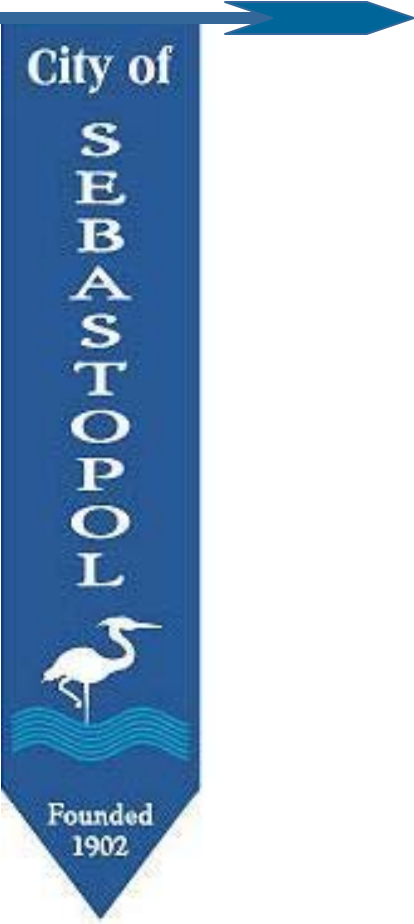
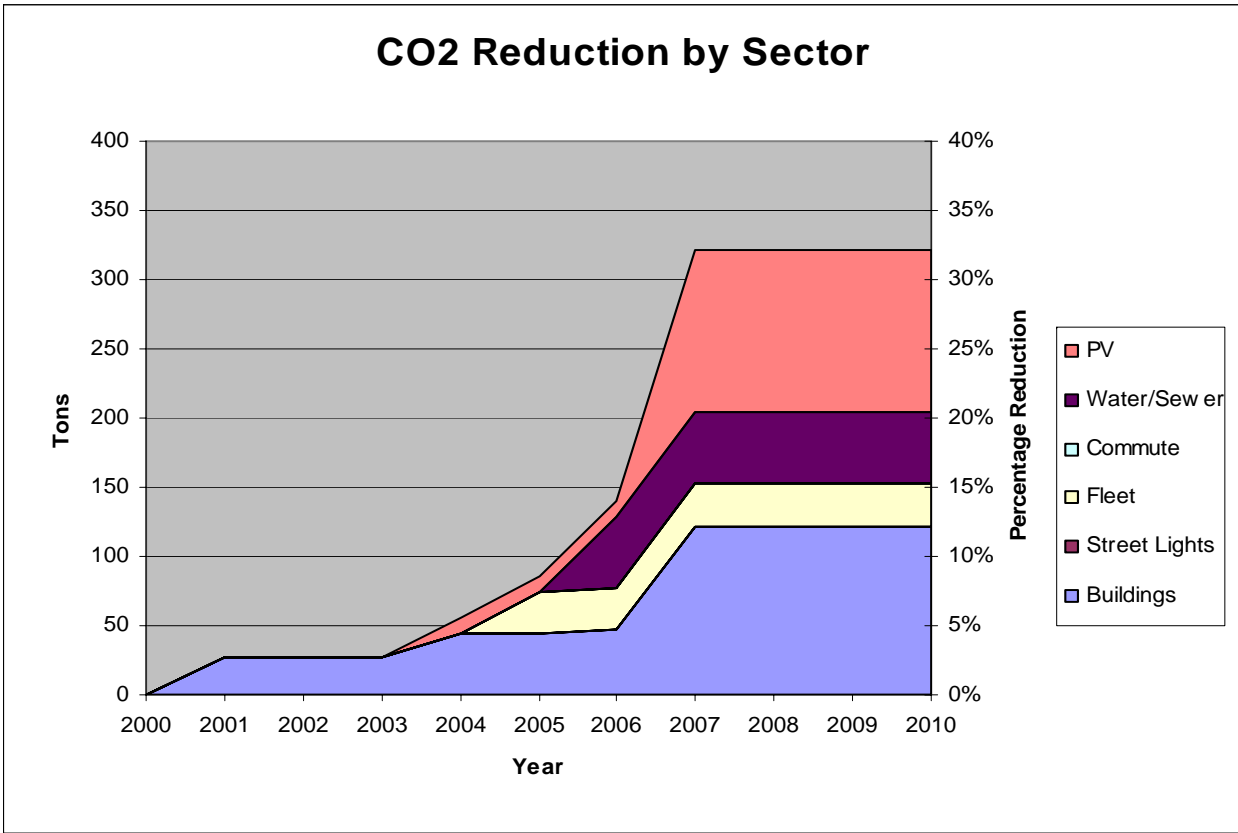
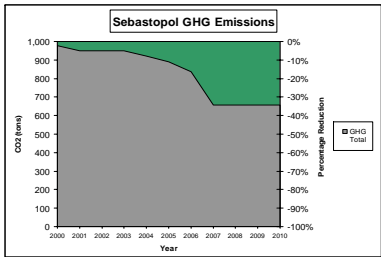
**229 tons CO2 Annual Reduction**

**34.2%  
Reduction**

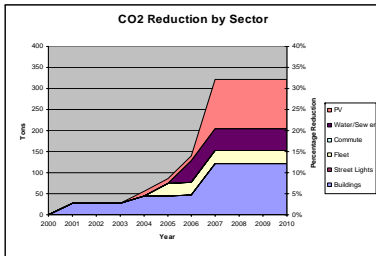
# Phase III: Meeting Our Target



# Phase III: Meeting Our Target



**334 tons CO2 Annual Reduction**



# Phase III: Meeting Our Target

## Community Benefits over 25 year Life of Plan

\$\$\$ Avoided Utility Company Payments	\$1,804,774
\$\$\$ Avoided Fuel Purchases	\$415,404
\$\$\$ Invested Locally in GHG Projects	\$770,909

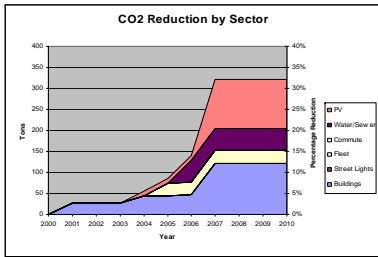
## Financial Analysis of Investment

Internal Rate of Return on Investment	73%
Net Present Value of Investment	\$881,479

**334 tons CO2 Annual Reduction**







# Phase III: Meeting Our Target

## Annual Cash Flow from Investment \*

2007	\$57,759
2008	\$77,157
2009	\$20,908
2010	\$88,656
2011	\$92,696
2012	\$88,664
2013	\$97,373
2014	\$101,517
2015	\$105,765
2016	\$61,749
2017	\$115,682
2018	\$120,260
2019	\$47,558
2020	\$144,204
2021	\$149,136

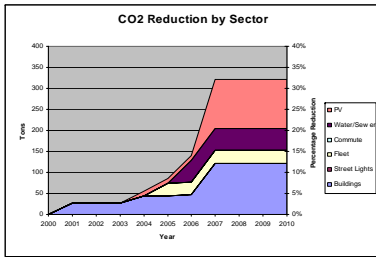
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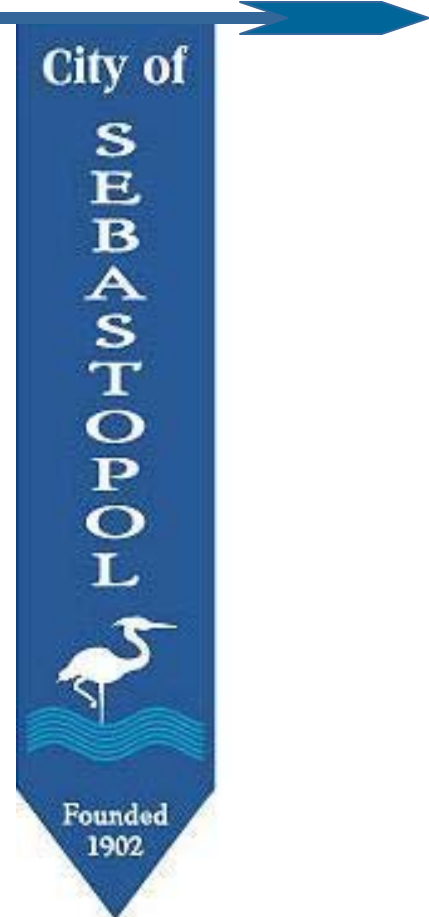
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\*Includes loan payments and associated O&M costs



# Phase III: Meeting Our Target

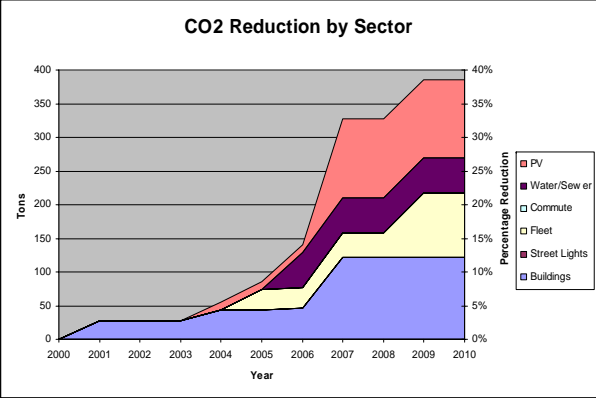
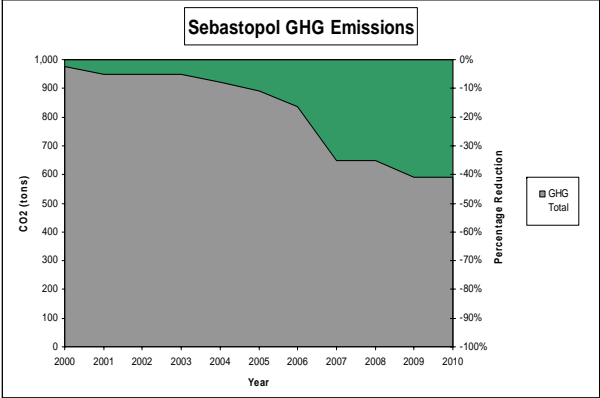
Cash Flow Year	Cash Flow Including Debt Service and O&M Costs	Outstanding Principal	Annual Debt Service Payments
2007	\$57,759	\$808,496	(\$39,272)
2008	\$77,157	\$762,774	(\$82,105)
2009	\$20,908	\$714,993	(\$82,105)
2010	\$88,656	\$665,063	(\$82,105)
2011	\$92,696	\$612,886	(\$82,105)
2012	\$88,664	\$558,361	(\$82,105)
2013	\$97,373	\$506,050	(\$77,438)
2014	\$101,517	\$451,384	(\$77,438)
2015	\$105,765	\$394,259	(\$77,438)
2016	\$61,749	\$334,563	(\$77,438)
2017	\$115,682	\$273,277	(\$76,341)
2018	\$120,260	\$209,234	(\$76,341)
2019	\$47,558	\$142,309	(\$76,341)
2020	\$144,204	\$88,210	(\$60,503)
2021	\$149,136	\$40,989	(\$51,191)
2022	\$162,550	\$0	(\$42,833)
2023	\$210,566	\$0	\$0
2024	\$215,880	\$0	\$0
2025	\$221,327	\$0	\$0



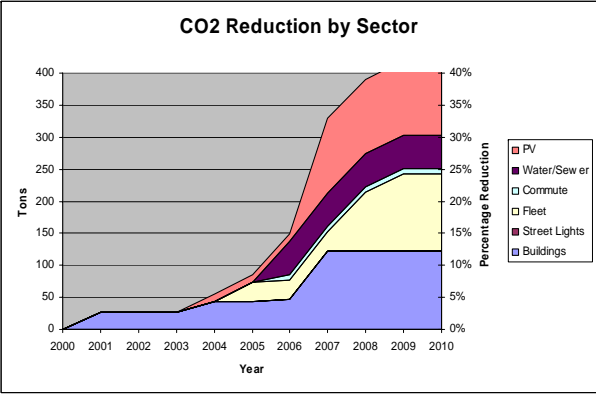
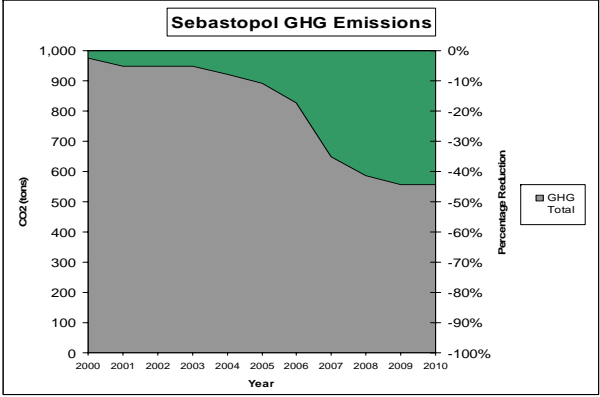
**Up to 42.7%  
Reduction**

# Alternates A&B Going Beyond Our Goal

Alternative A: 39.5% Reduction (386 tons CO2 avoided)



Alternative B: 42.7% Reduction (417 tons CO2 avoided)



**Up to 42.7%  
Reduction**

# Alternates A&B Going Beyond Our Goal

## Community Benefits over 25 year Life of Plan

Alternative A: 39.5% Reduction (386 tons CO2 avoided)

<b>\$\$\$ Avoided Utility Company Payments</b>	<b>\$1,804,774</b>
<b>\$\$\$ Avoided Fuel Purchases</b>	<b>\$703,374</b>
<b>\$\$\$ Invested Locally in GHG Projects</b>	<b>\$930,584</b>

Alternative B: 42.7% Reduction (417 tons CO2 avoided)

<b>\$\$\$ Avoided Utility Company Payments</b>	<b>\$1,804,774</b>
<b>\$\$\$ Avoided Fuel Purchases</b>	<b>\$981,432</b>
<b>\$\$\$ Invested Locally in GHG Projects</b>	<b>\$1,191,743</b>



**Up to 42.7%  
Reduction**

# Alternates A&B Going Beyond Our Goal

## Annual Cash Flow from Investment \*

<u>Year</u>	<u>Phase III</u>	<u>Alternate A</u>	<u>Alternate B</u>
2007	\$57,759	\$47,759	\$37,759
2008	\$77,157	\$76,778	\$77,157
2009	\$20,908	<b>(\$59,482)</b>	<b>(\$69,092)</b>
2010	\$88,656	\$96,239	\$94,747
2011	\$92,696	\$100,468	\$98,931
2012	\$88,664	\$96,627	\$95,044
2013	\$97,373	\$105,533	\$103,903
2014	\$101,517	\$109,879	\$108,200
2015	\$105,765	\$114,334	\$112,605
2016	\$61,749	\$70,530	\$68,748
2017	\$115,682	\$124,680	\$122,846
2018	\$120,260	\$129,480	\$127,590
2019	\$47,558	\$3,250	\$1,303
2020	\$144,204	\$153,887	\$151,881
2021	\$149,136	\$159,058	\$156,992



\*Includes loan payments and associated O&M costs

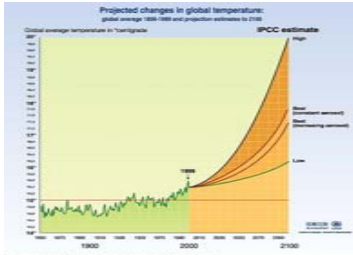
**Up to 42.7%  
Reduction**

# Alternates A&B Going Beyond Our Goal

## Financial Analysis of Investment

Comparison of Options	Phase III	Alternate A	Alternate B
GHG Reduction	34.2%	39.5%	42.7%
Internal Rate of Return on Investment	73%	63%	59%
Net Present Value of Investment	\$881,479	\$864,324	\$839,770





# GHG Reduction Plan Summary of Opportunities

## Community Benefits over 25 year Life of Plan

Phase III: 34.2% Reduction (334 tons CO2 avoided)

<b>\$\$\$ Avoided Utility Company Payments</b>	<b>\$1,804,774</b>
<b>\$\$\$ Avoided Fuel Purchases</b>	<b>\$415,404</b>
<b>\$\$\$ Invested Locally in GHG Projects</b>	<b>\$770,909</b>

Alternative A: 39.5% Reduction (386 tons CO2 avoided)

<b>\$\$\$ Avoided Utility Company Payments</b>	<b>\$1,804,774</b>
<b>\$\$\$ Avoided Fuel Purchases</b>	<b>\$703,374</b>
<b>\$\$\$ Invested Locally in GHG Projects</b>	<b>\$930,584</b>

Alternative B: 42.7% Reduction (417 tons CO2 avoided)

<b>\$\$\$ Avoided Utility Company Payments</b>	<b>\$1,804,774</b>
<b>\$\$\$ Avoided Fuel Purchases</b>	<b>\$981,432</b>
<b>\$\$\$ Invested Locally in GHG Projects</b>	<b>\$1,191,743</b>

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