

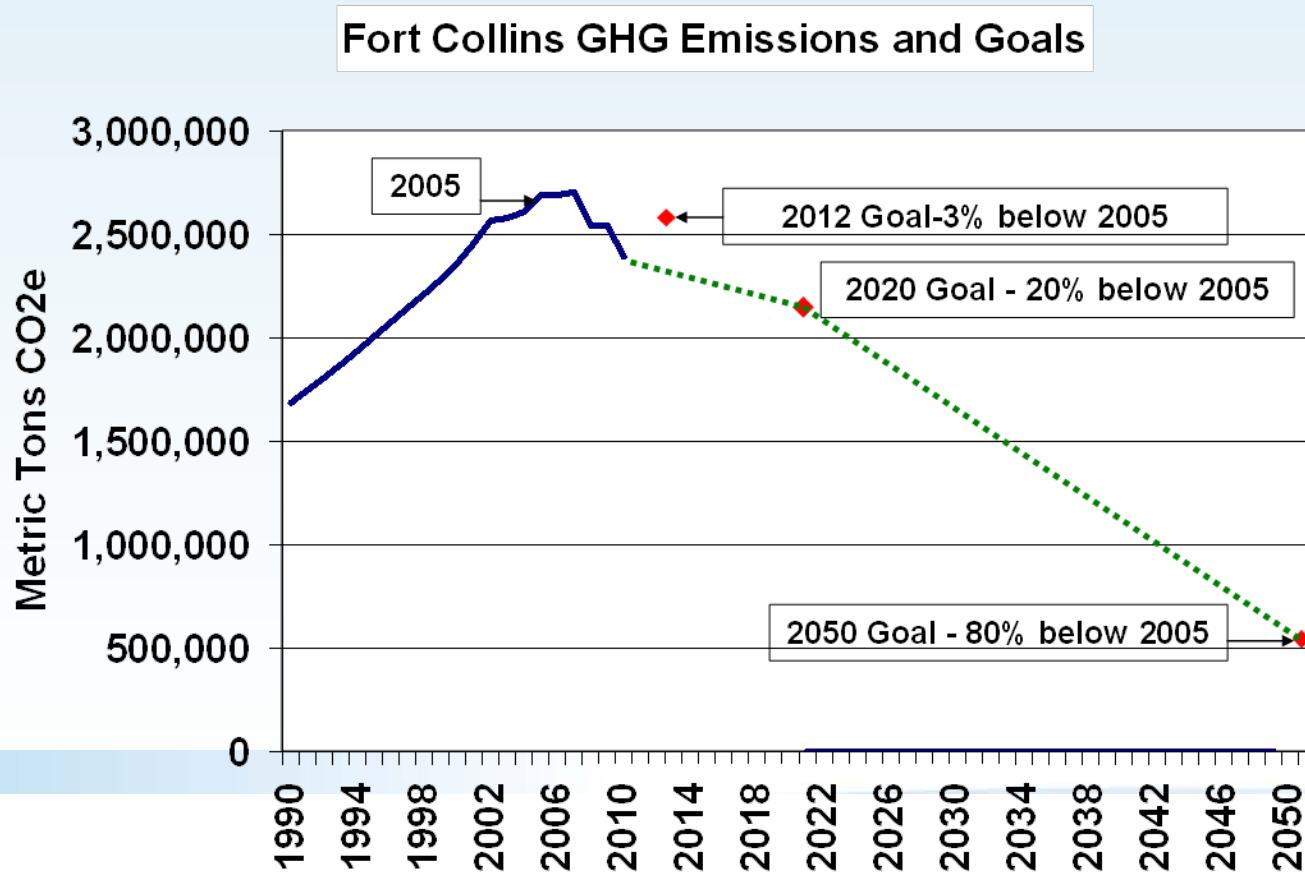
Demand vs. Supply: Which Basket to Put Your Eggs In

?



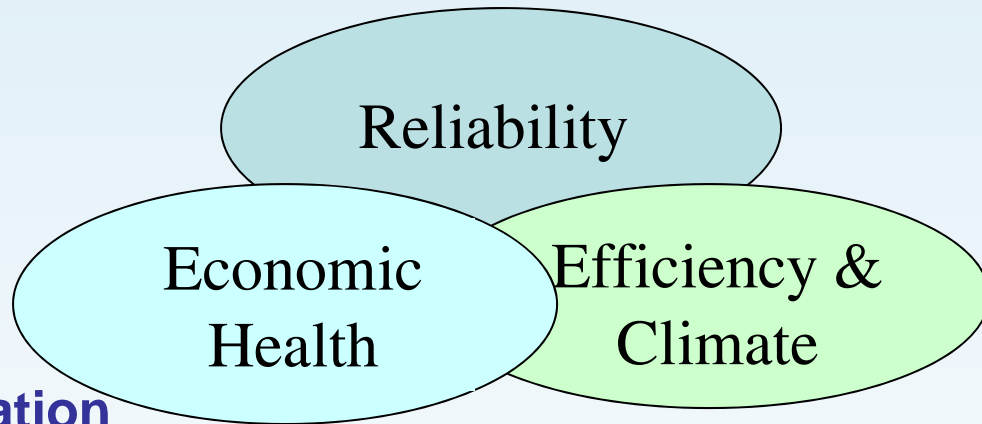
Fort Collins Carbon Goals (2008)

- 20% reduction below 2005 levels, by 2020
- 80% reduction below 2005 levels, by 2050



Fort Collins Energy Policy

- Reliability
 - Metrics
 - Asset Management
 - Peak demand reduction
- Efficiency / Climate
 - Carbon emissions goals
 - **Efficiency and conservation priorities**
 - **Renewable energy**
- Economic Health
 - Financial policies
 - Rates, bills and affordability
 - Local economic benefits



Fort Collins Energy Policy Goals (2009)

Support goal to reduce carbon emissions 20% below 2005 levels by 2020

Demand side

Efficiency programs annually achieve savings equivalent to 1.5% of community electricity use

Supply Side

(At least) Meet the State Renewable Energy Standard

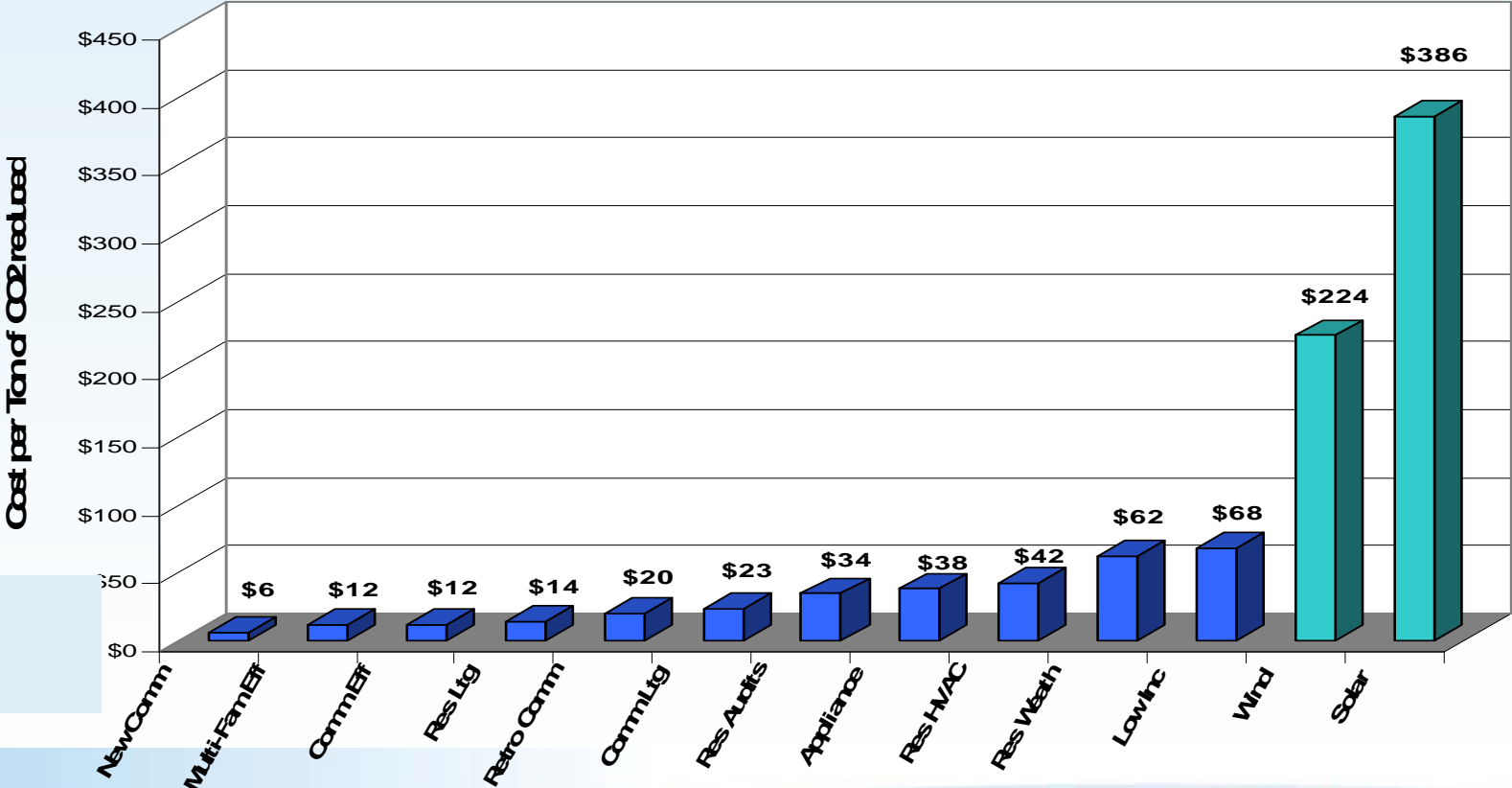
3% of total energy sold by 2011

6% of total energy sold by 2015

10% of total energy sold by 2020

Meeting our carbon goals: Energy Efficiency programs are a lower cost route to carbon reduction

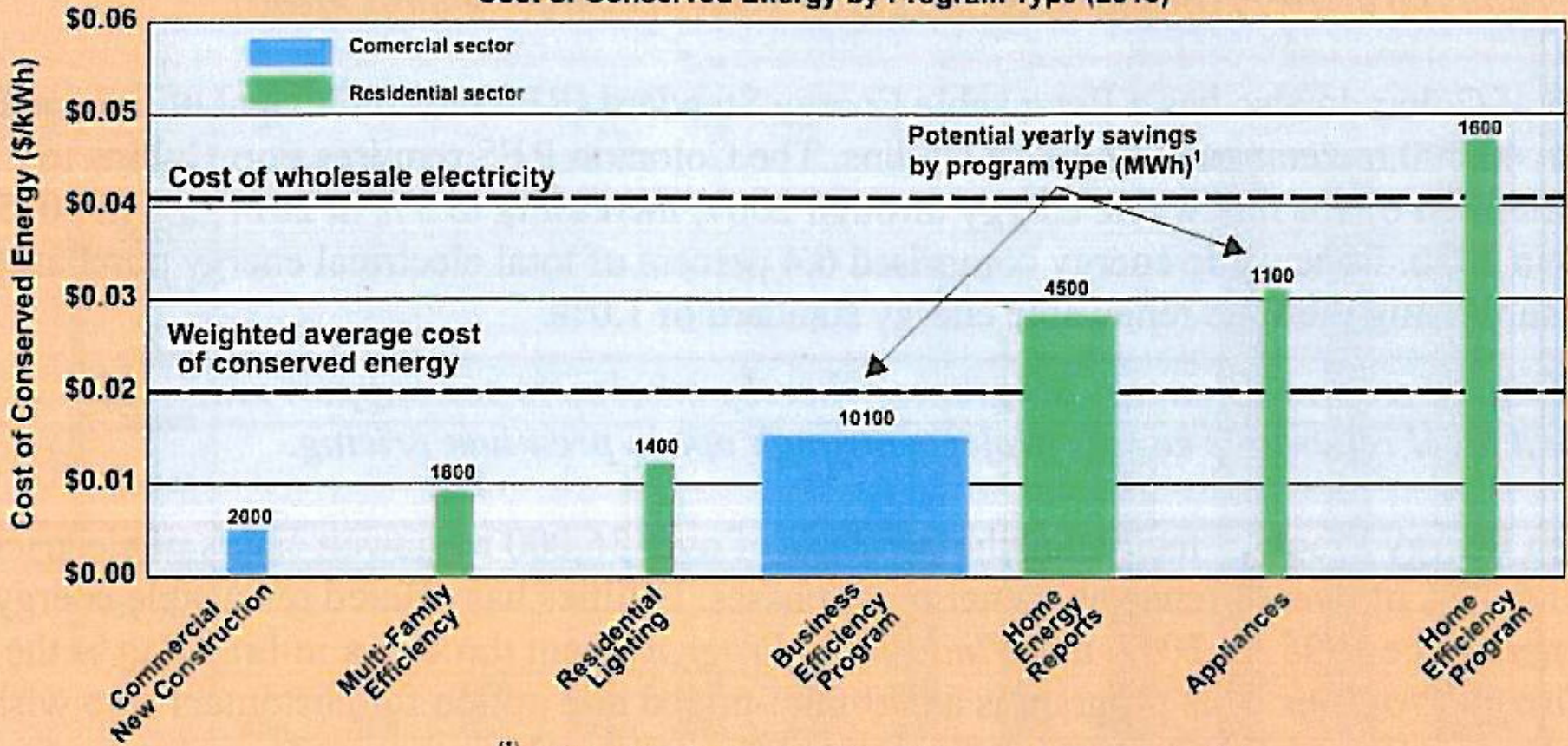
Lifecycle cost per ton CO2



Utility Programs shown in blue



Fort Collins Utilities - Electrical Savings Potential and Cost of Conserved Energy by Program Type (2010)



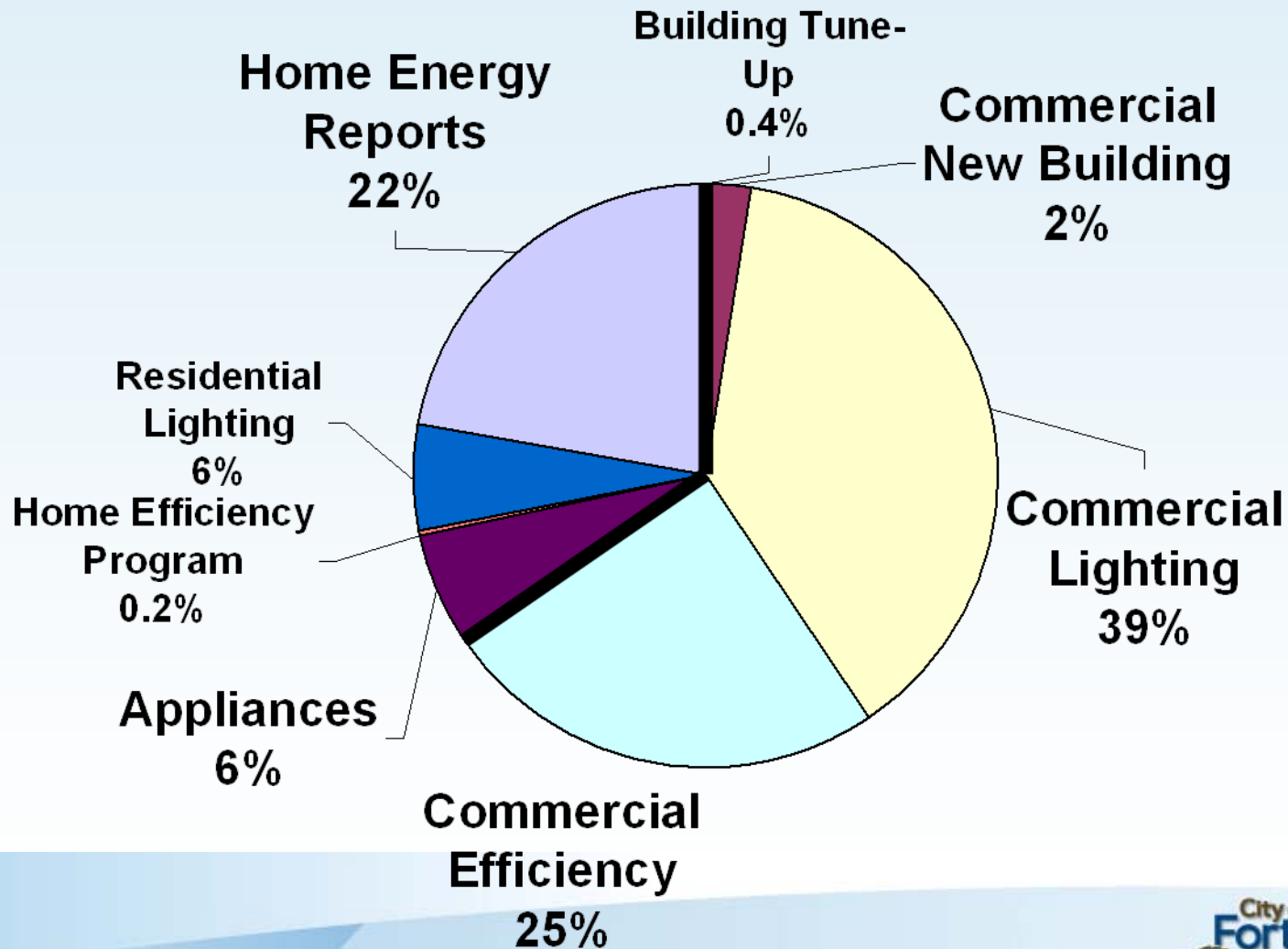
(1) Width of the bar is proportional to annual savings potential

Demand Side Progress - 2010



- ❖ Citizens and businesses participating in City 2010 energy efficiency programs avoided over 20,000 MWH electricity (1.4% of community electricity use)

2010 Efficiency Programs - Customer Savings

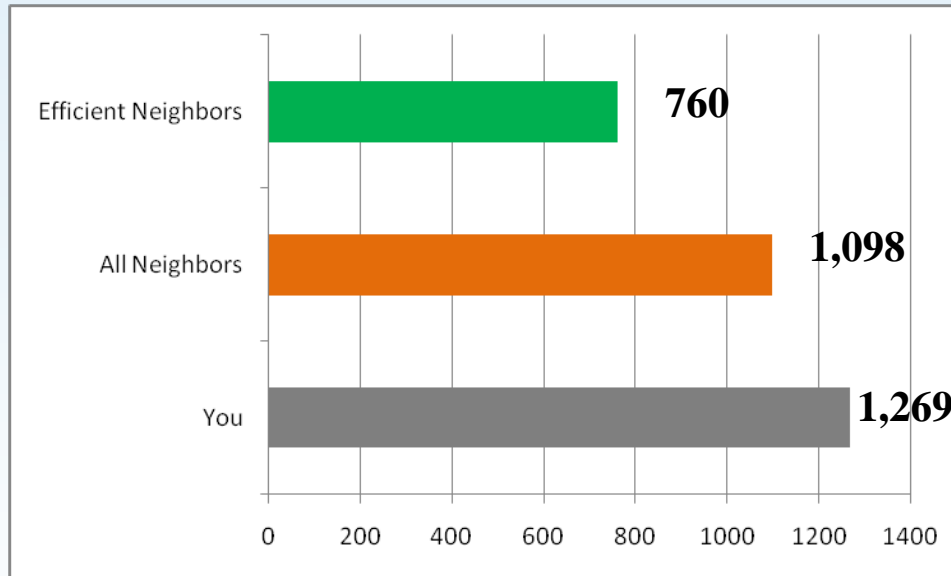


Home Energy Reports

- Delivered in partnership with O-Power
- 25,000 customer recipients receive report six times per year
- Meeting or exceeding expectations
 - Over 2,900 megawatt-hours (MWh) year to date
 - On track to exceed goal of 4,500 MWh
 - Cost of conserved energy less than \$0.05 per kilowatt-hour
 - Contributes approximately 20% of annual efficiency portfolio goal

Home Energy Reports

Last Month Neighbor Comparison You used **16% MORE** energy than your neighbors.

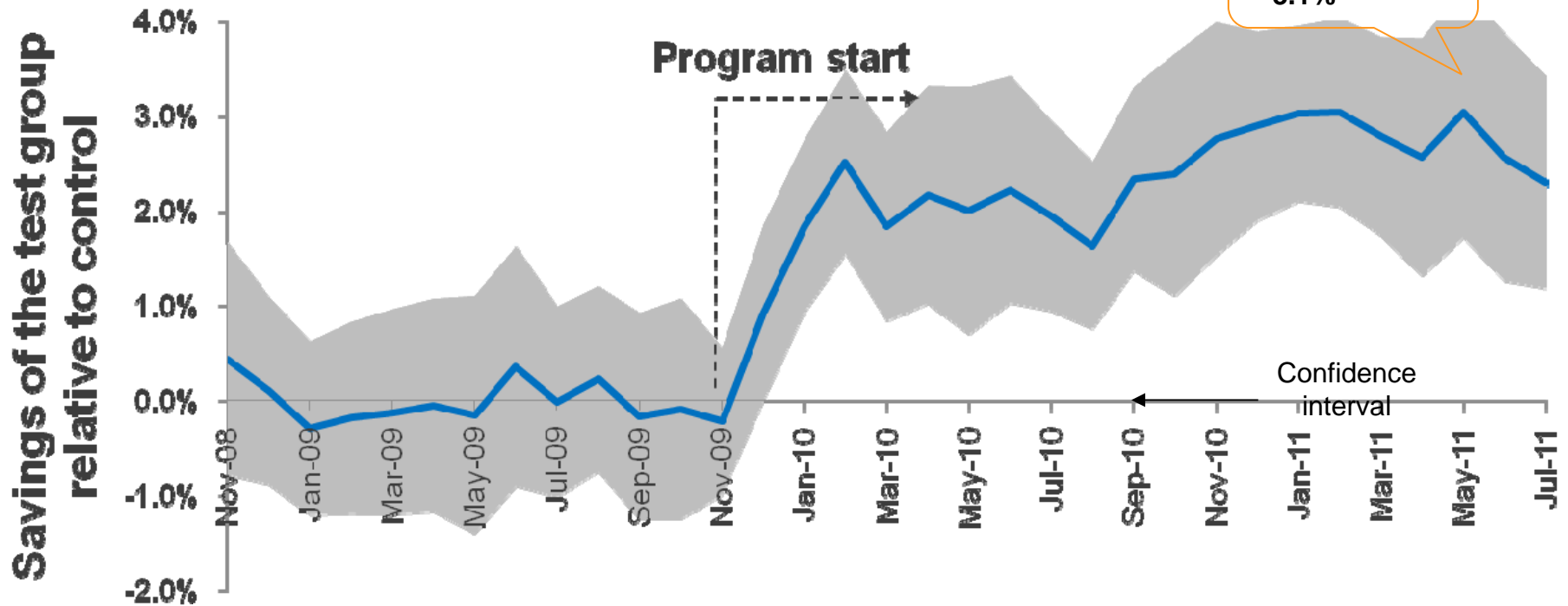


Last 12 Months Neighbor Comparison You used **32% MORE** than your neighbors.
This costs you about \$509 EXTRA per year.

Home Energy Reports Program Summary

Program savings are sustained and continue to increase

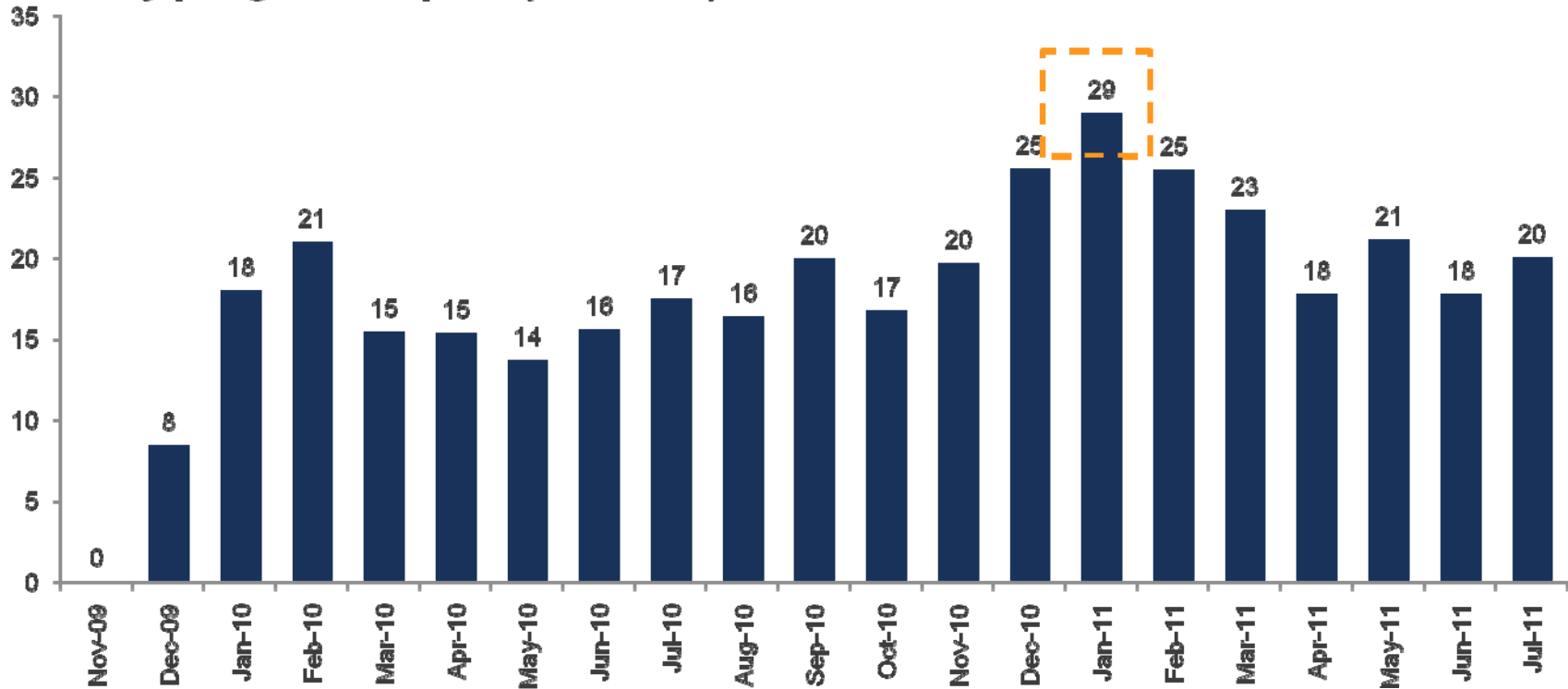
Program Impact: Overall



Home Energy Reports Program Summary

In the last calendar year participants have saved ~250 kWh apiece

Monthly program impact (kWh/HH)



Source: Opower Data through 07/31/2011

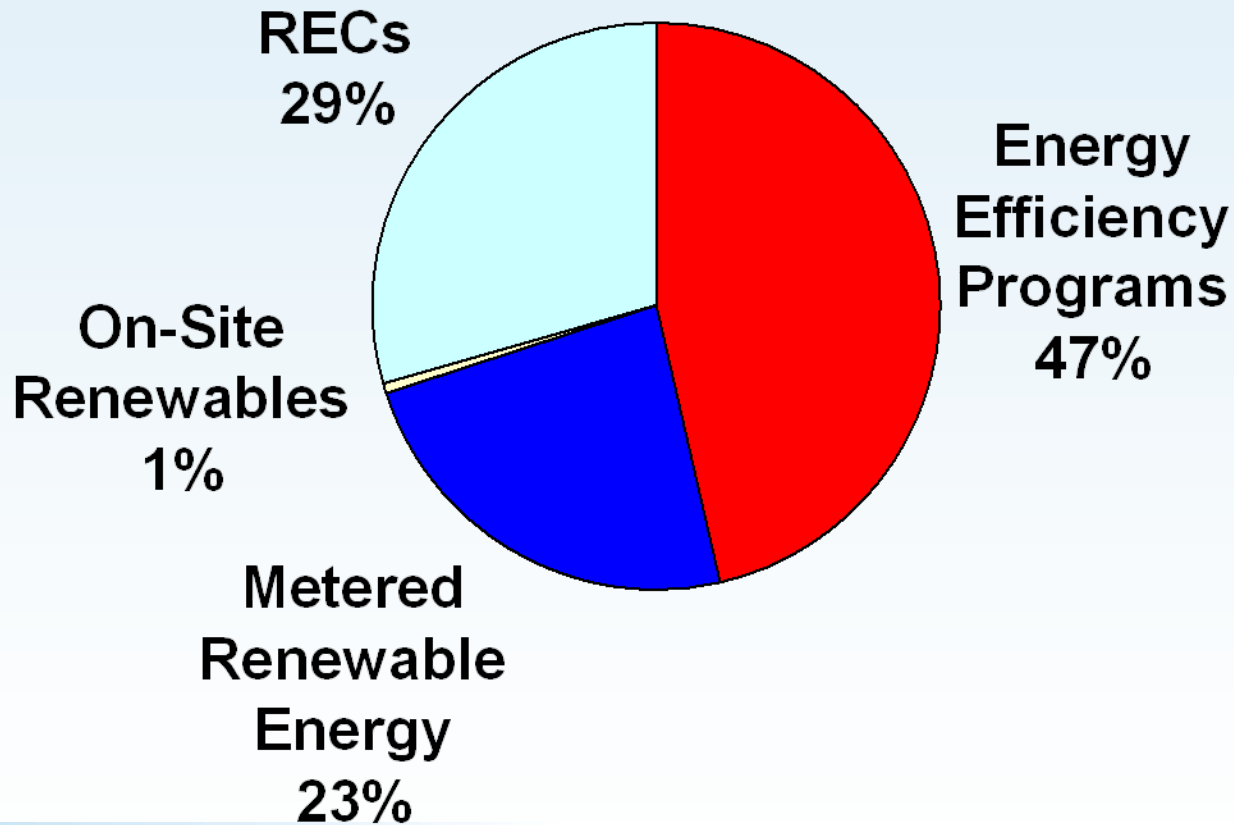


Supply Side Progress - 2010

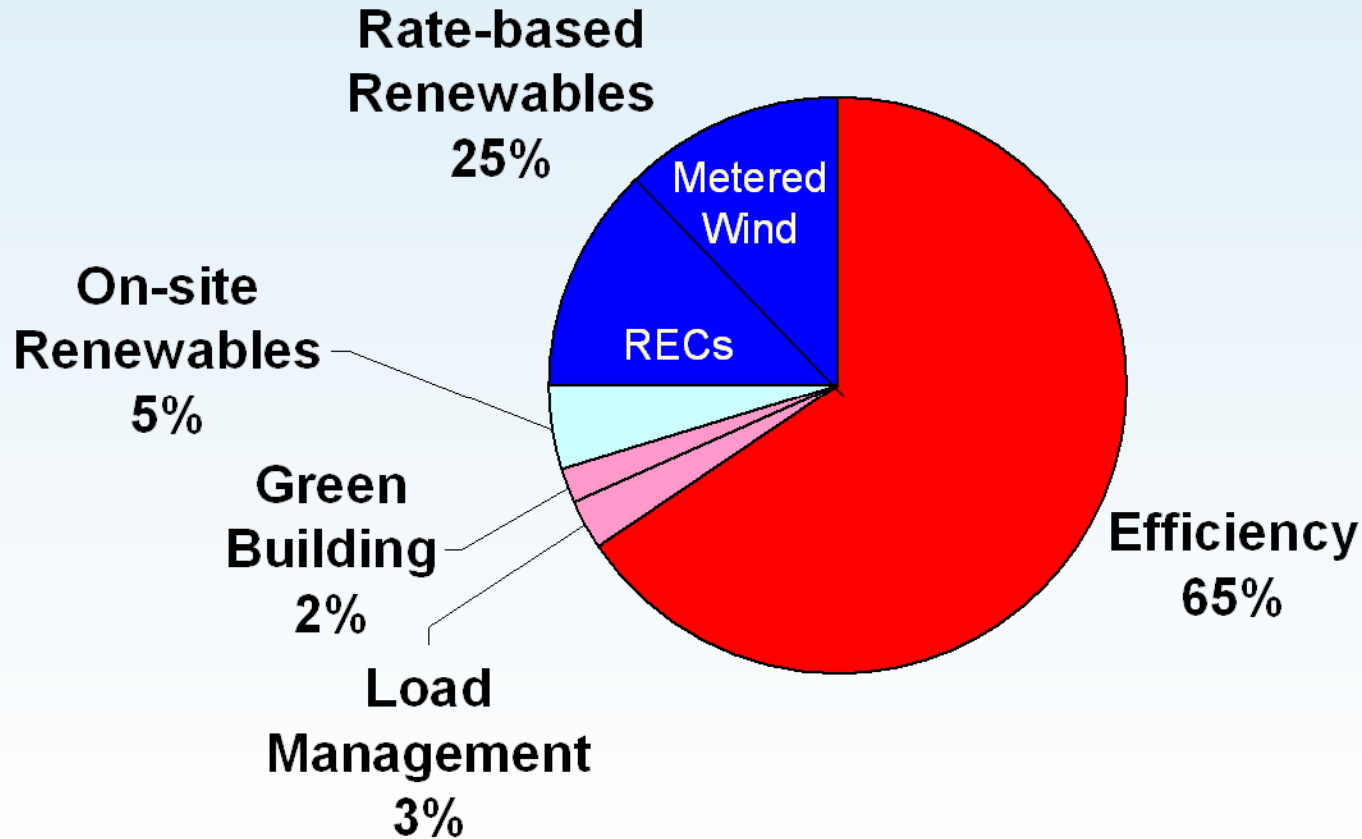


- ❖ 6.5% of electricity investments in clean, renewable energy (4.6% from rate-base, 1.9% from voluntary Green Energy program subscriptions)

2010 MWh Avoided from Energy Policy Programs*
> 181,000 MWh



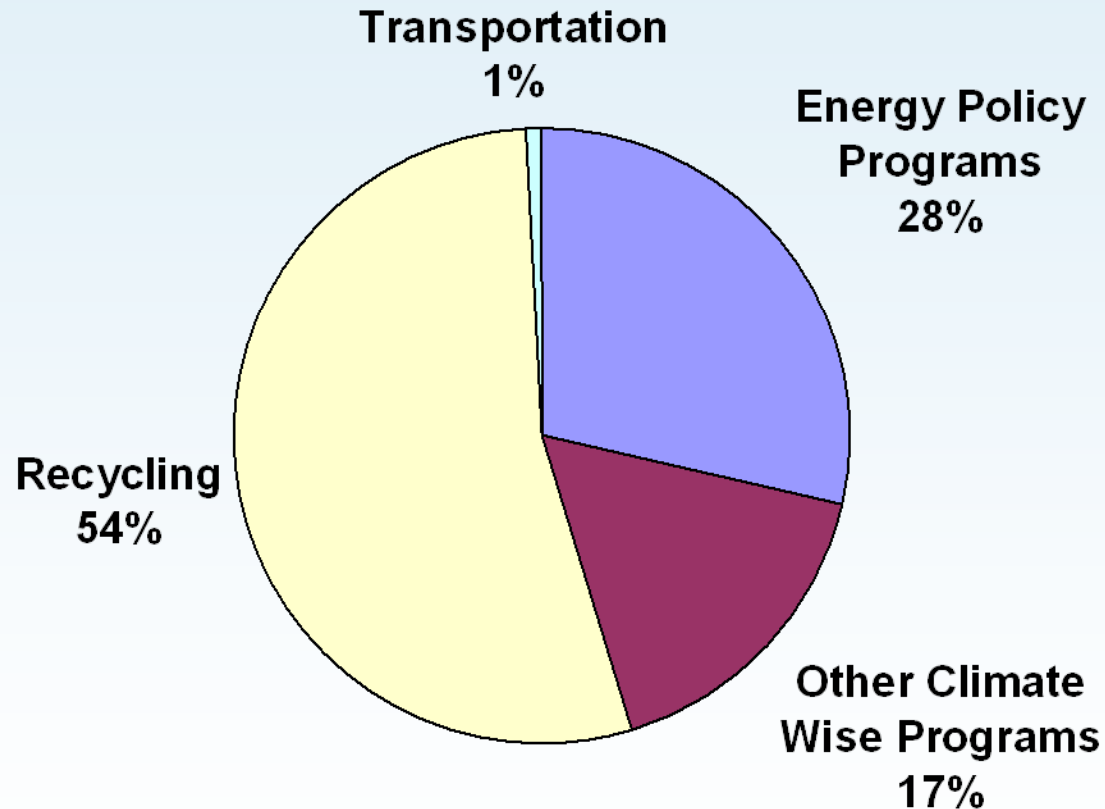
2010 Energy Policy Program Utilities Budget ~ \$5.5M



Funding Sources

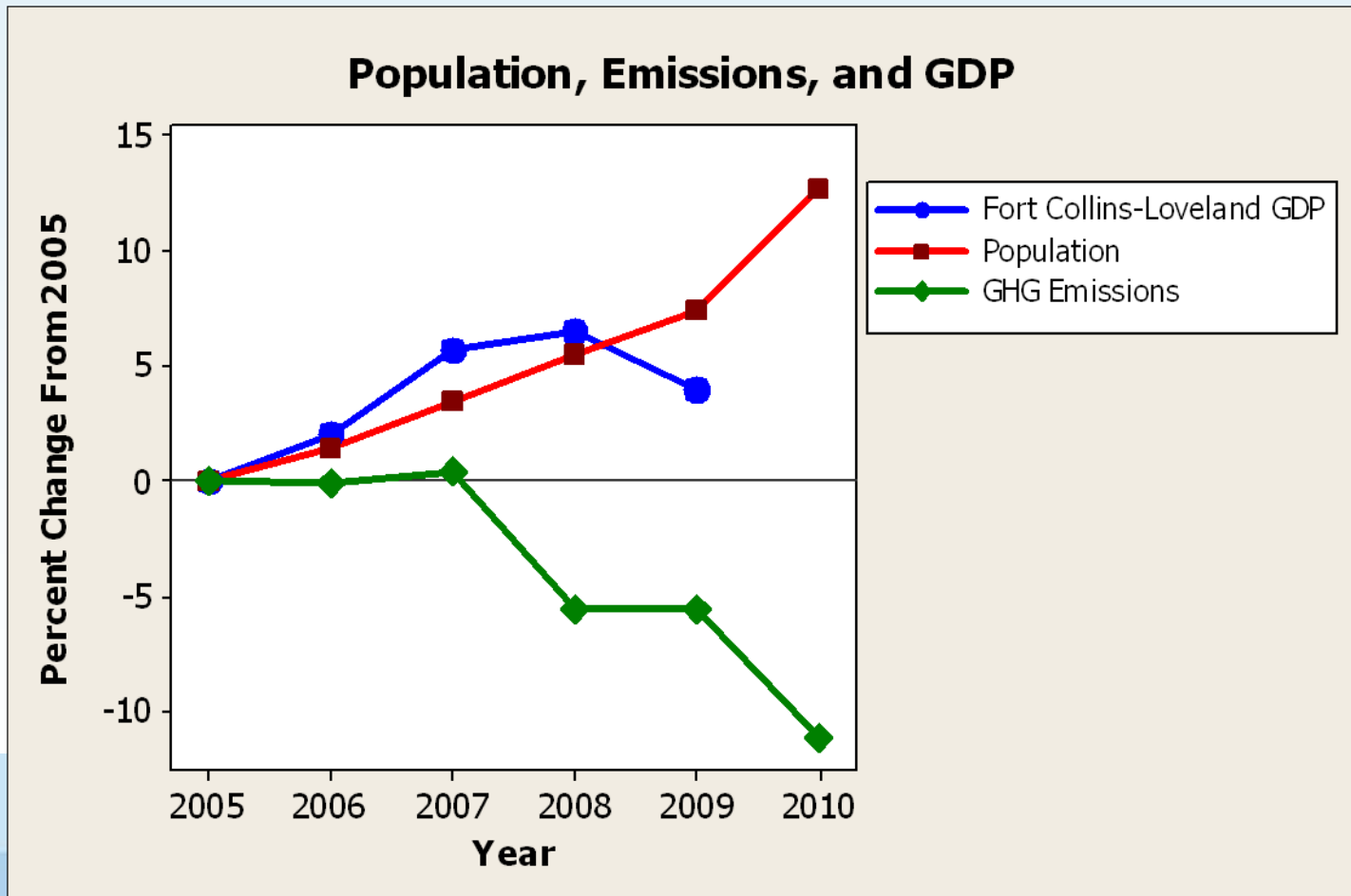
- Rate-payers
- 2004 - 2% added to Utilit bills (1% DSM, 1% RE)
- Rate increases in 2010 and 2011 (1.8% each)
- Voluntary Wind Subscribers
- Grants (GEO, DOE, etc.)

2010 Total Carbon Reductions (456,000 MTCO₂e)



Overall progress

Fort Collins community GHG Emissions dropped 11% below 2005 by 2010



THANK YOU!

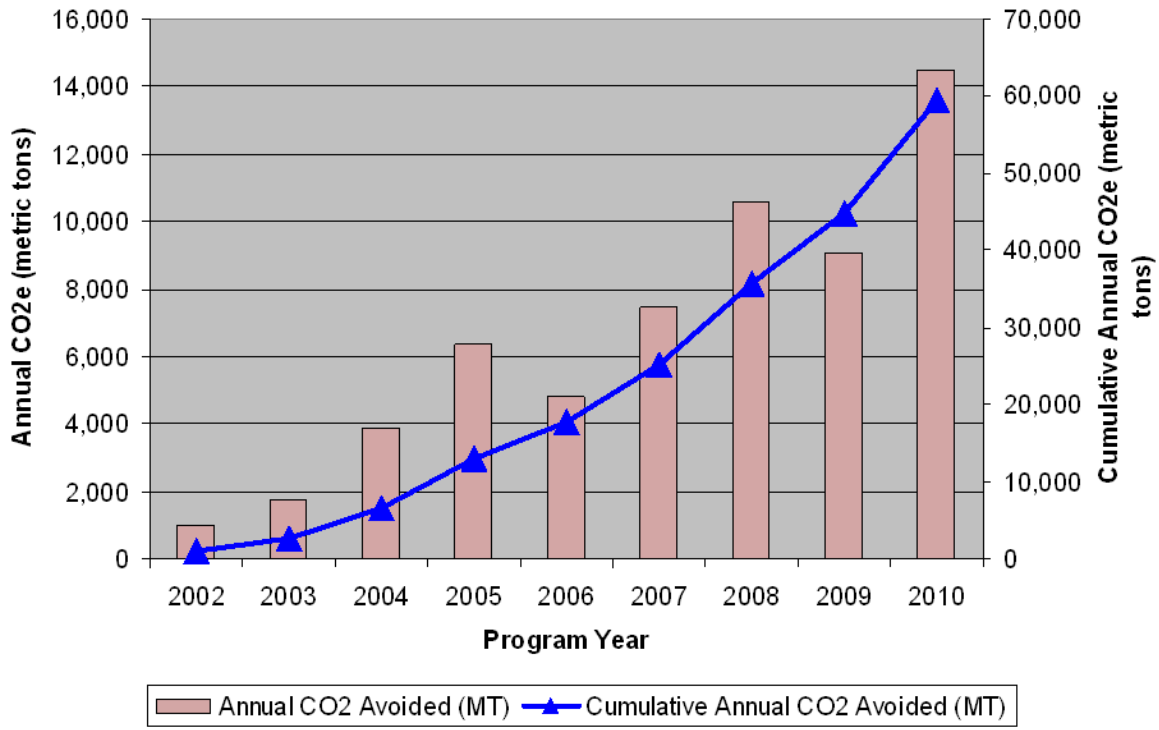
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Carbon Emissions Avoided from Energy Efficiency Programs



Current Challenges/Opportunities

RECs vs. Metered Energy

Feed-In Tariff

Pricing policies (Tiered rates, time of use)

Fort Collins Annual Renewable Energy Purchases (MWh)

