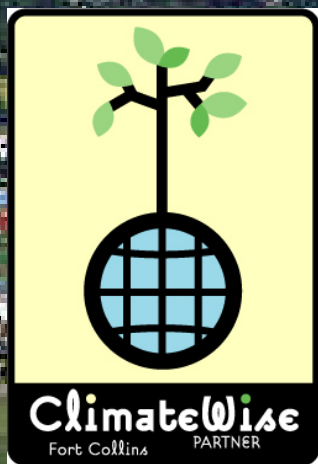


Climate Wise Fall Fair

Welcome!

5 November 2008

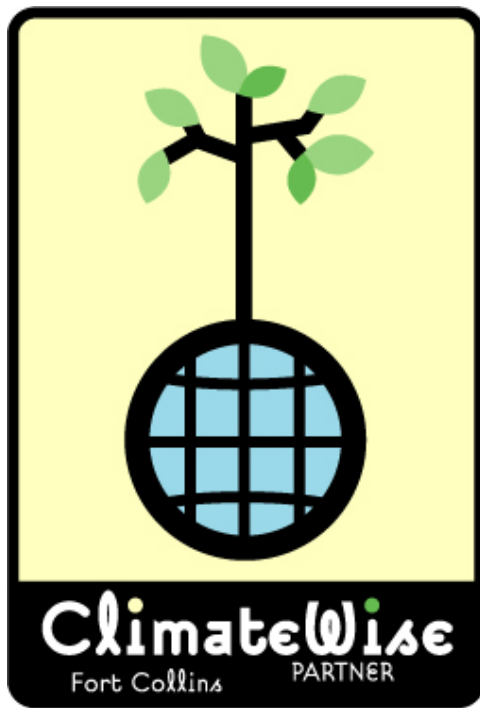
Café Columbine



Climate Wise Program

New Partner Orientation

Wednesday, November 5, 2008

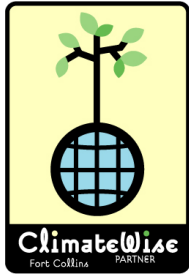


Climate Wise, Business Smart.

Thank YOU Climate Wise Partners!

More than 100 Businesses Strong

Advanced Energy, Inc.
Avago Technologies
Alliance Construction, Inc.
Anheuser-Busch Inc.
Austin's/Moot House/Enzio's
Ben & Jerry's
Best Western Univ. Inn
Café Ardour
Centers for Disease Control
City of Fort Collins
Clean Air Lawn Care
Colorado State University
Compliance Partners
Custom Blending, Inc.
Dako
Delta Construction
Drahota Construction
Eco-Thrift
European Motor Cars
Experience Plus!
Foothills Mall
F.C. Chamber of Commerce
Fort Collins Club
Fort Collins Food Co-Op
Fort Collins Marriott
Front Range Comm. College
Furhman Landscaping, Inc.
Hewlett-Packard
Houska Automotive Services
JAX Outdoor, Inc.
Lafarge Corporation
Land Images, Inc.
Larimer County
Lyric Cinema Cafe
Media Tech Productions
Merit Electric Company, LTD.
The Neenan Company
New Belgium Brewing Co.
Nolte Associates, Inc.
North Front Range MPO
Odell Brewing Company
Passion for the Planet Eco-
Boutique
Platte River Power Authority
Poudre School District
Poudre Valley Hospital
REI
Residence Inn by Marriott
Rio Grande Restaurant
Sage Dwelling
Scuba Schools Intl.
The Coloradoan
The Cupboard
The RETEC Group
The Vineyard Church
Transpro, Inc.
Trees, Water & People
Trinity Lutheran Church
United States Postal Service
Urban Water Conservation
USDA-APHIS
Value Plastics, Inc.
Vaught-Frye Architects
Wal-Mart Supercenter
Waterpik Technologies
Whole Foods Market
Woodward



Climate Wise Program

New Partner orientation

Agenda

9:00 - 9:05 a.m.	Convene
9:05 -9:50 a.m.	Presentations
9:50 -10:15 a.m.	Climate Wise Team
10:15 -10:20 a.m.	5 minute break

Climate Wise, Business Smart.

Why are we here??

The BIG Picture

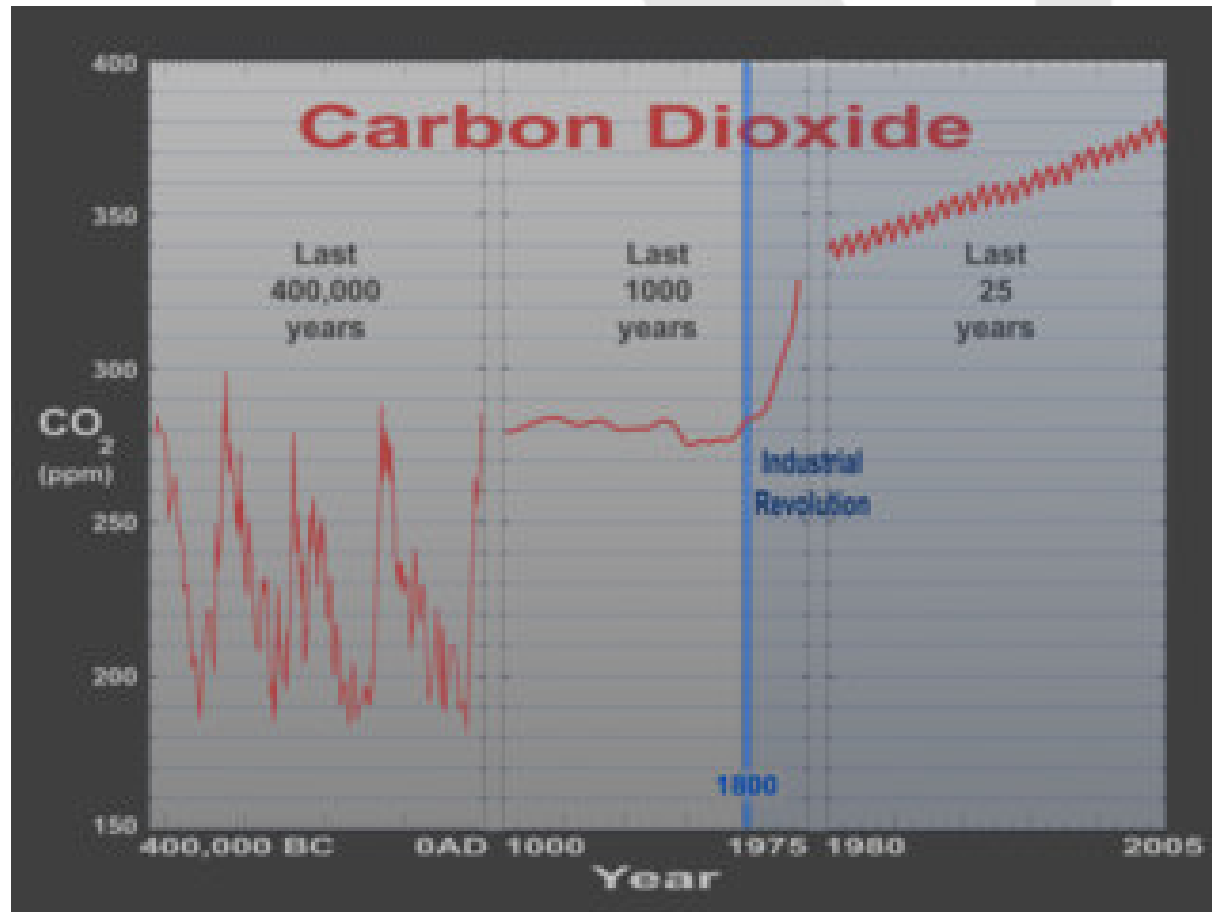


Lucinda Smith, Senior Environmental Planner, City of Fort Collins Natural Resources Dept.

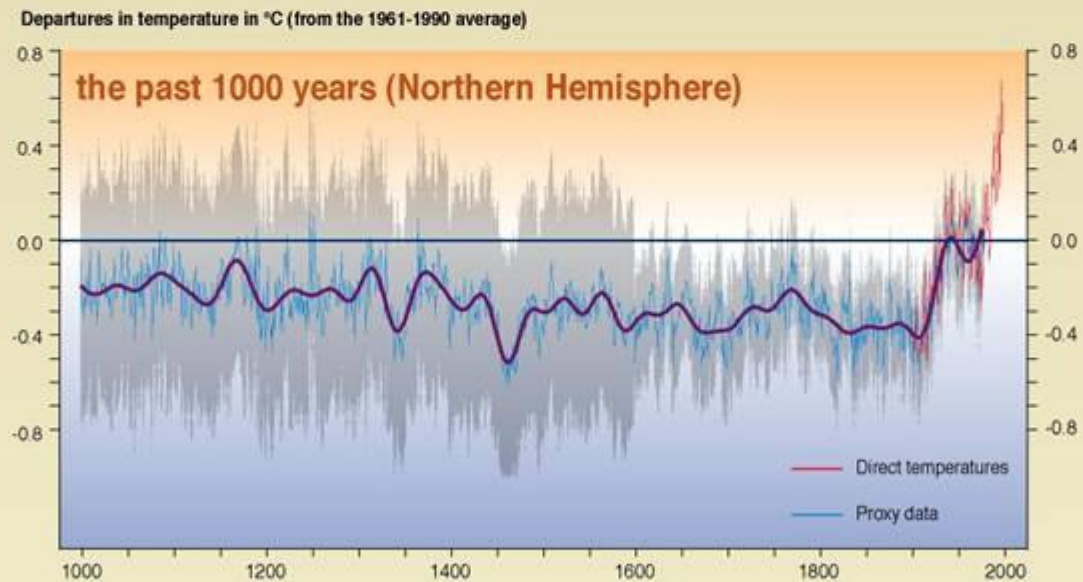
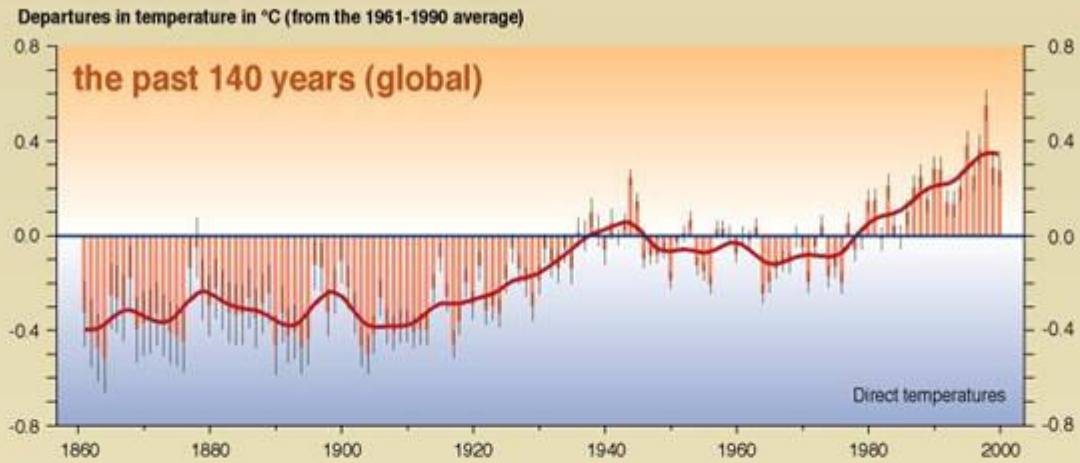
Paul Davis, Energy Services Manager, Platte River Power Authority

Climate Wise, Business Smart.

Climate Change



Variations of the Earth's surface temperature for...



SYR - FIGURE 2-3

Positive proof of global warming.



**18th
Century**

1900

1950

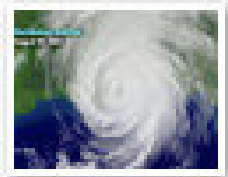
1970

1980

1990

2006

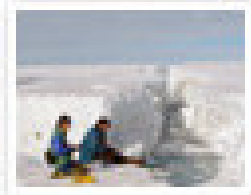
Climate Change Impacts



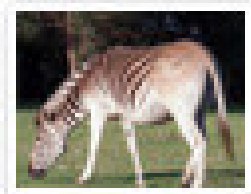
The number of Category 4 and 5 hurricanes has almost doubled in the last 30 years.



Malaria has spread to higher altitudes in places like the Colombian Andes, 7,000 feet above sea level.



The flow of ice from glaciers in Greenland has more than doubled over the past decade.



At least 279 species of plants and animals are already responding to global warming, moving closer to the poles.

Climate Science Motivation

IPCC 4th Assessment Report (components)

- Temperature increases since the mid 20th century are very likely due to human greenhouse gas emissions.
- The impacts of climate change are very likely to impose net annual costs which will increase over time as global temperatures increase.
- Many impacts can be avoided, reduced, or delayed by mitigation.

Climate Change can Change Colorado

- Less Snow



- More Droughts



- Less Water

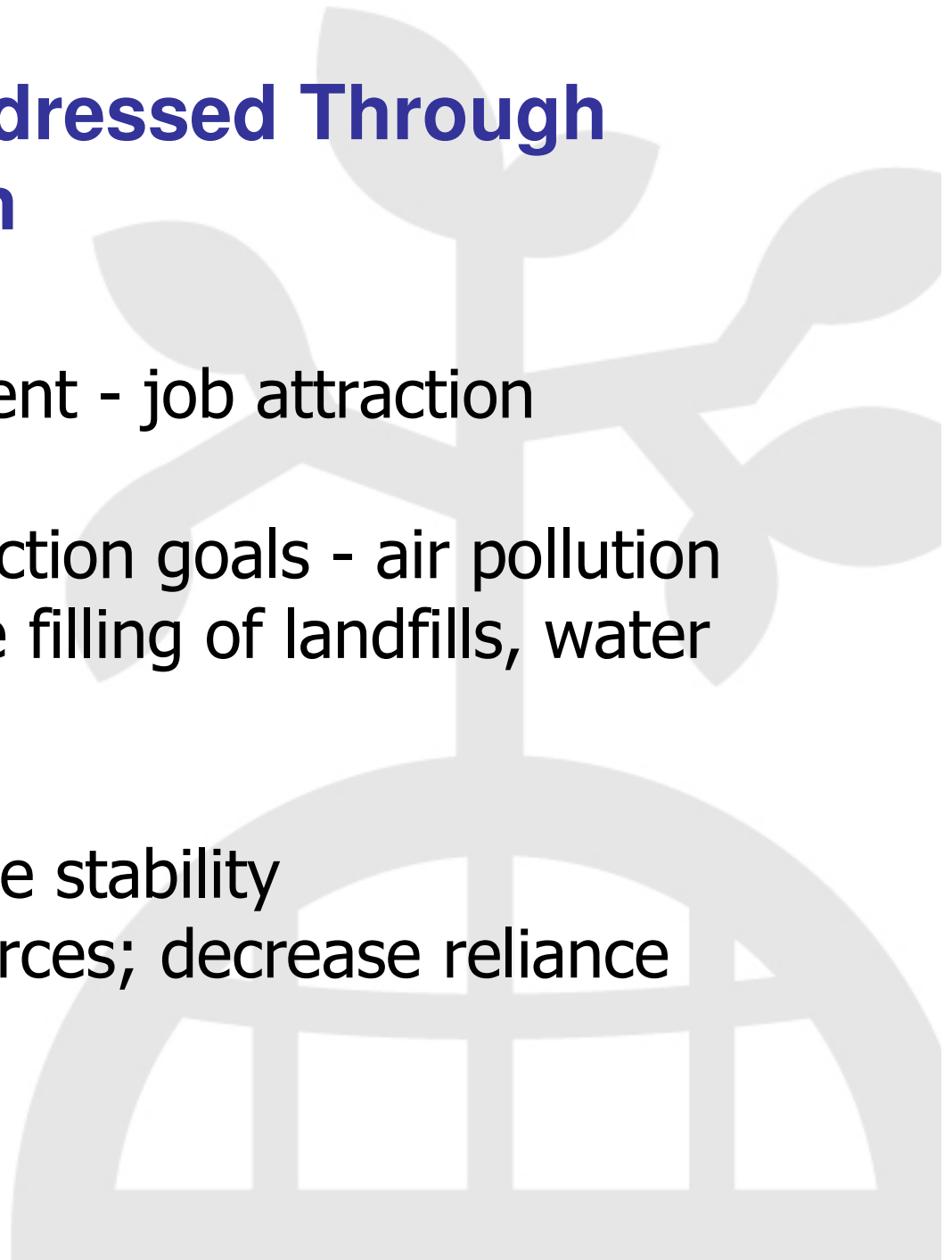


- More Fires



Multiple Goals Addressed Through Climate Protection

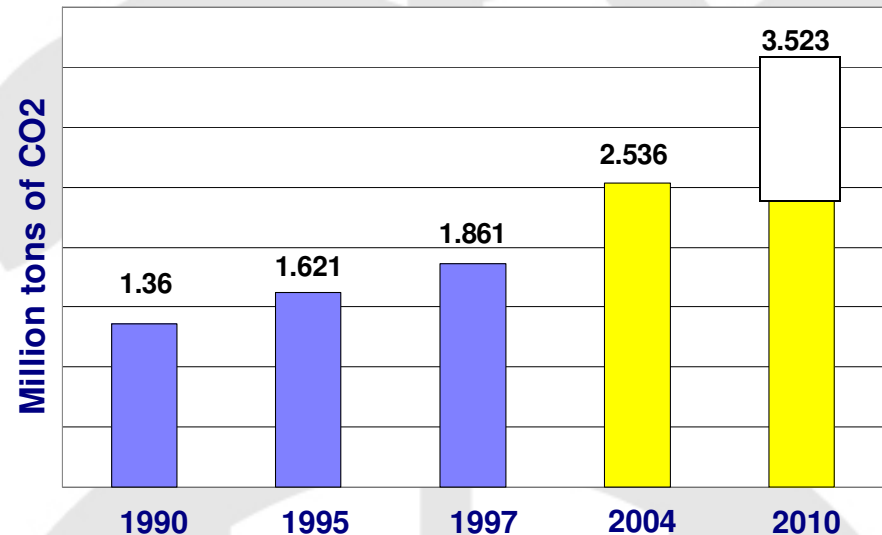
- Economic development - job attraction and retention
- Environmental protection goals - air pollution reduction, reduce filling of landfills, water conservation
- Cost savings
- Increase energy price stability
- Diversify energy sources; decrease reliance on fossil fuels



Fort Collins Evolving Commitment to Reduce Greenhouse Gases

1997 – Joined ICLEI's Cities for Climate Protection Campaign

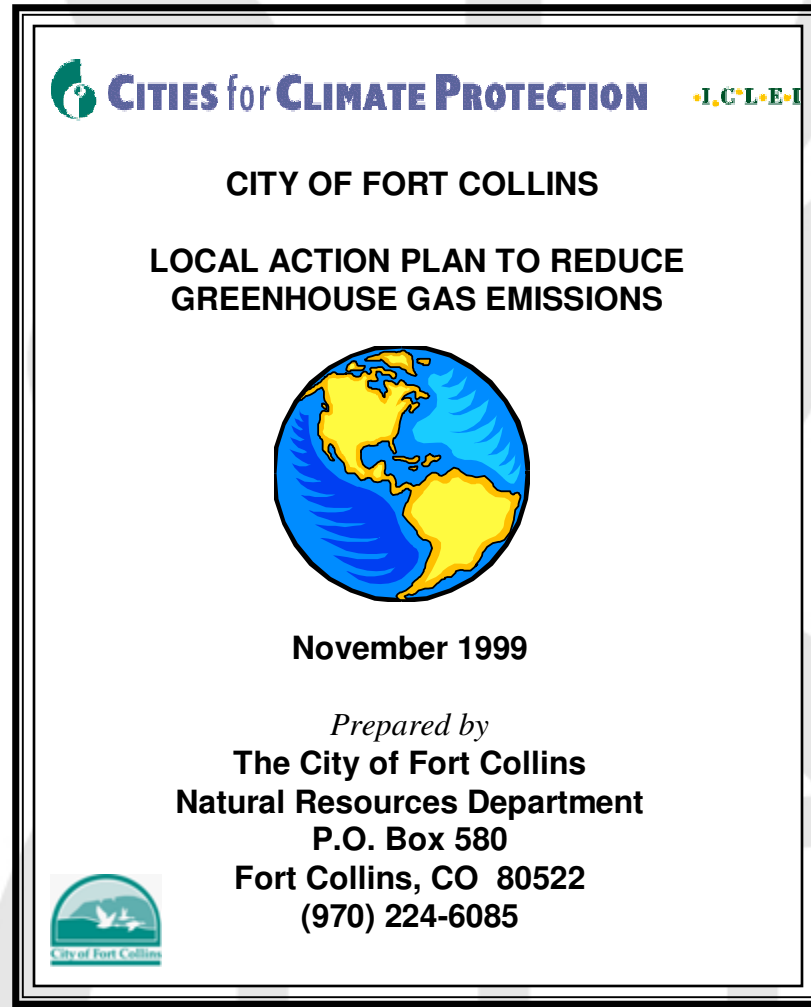
1999 – Set goal to reduce greenhouse gas emissions 30% below 2010 levels



Local Action Plan

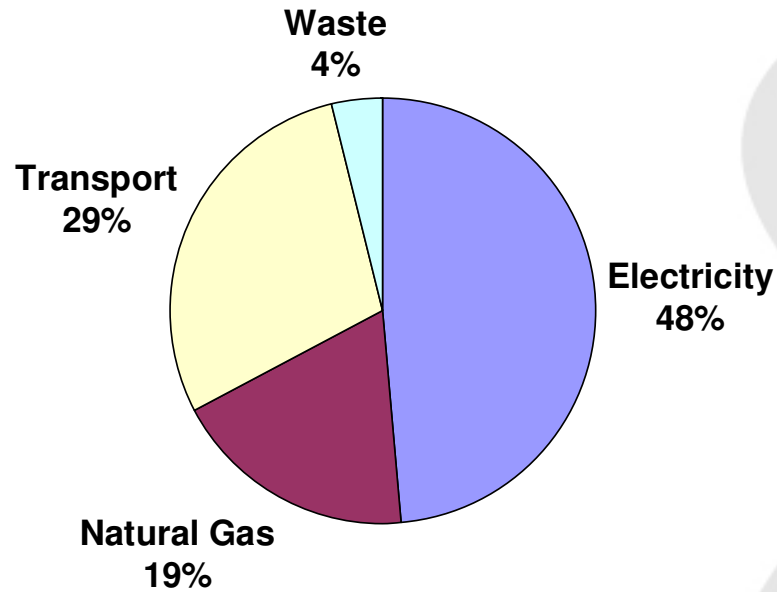
- **Energy**
- **Transportation**
- **Waste Reduction**
- **Multifaceted**
(Climate Wise)
- **Vegetation**
- **Purchasing**
- **Education**

fcgov.com/climateprotection

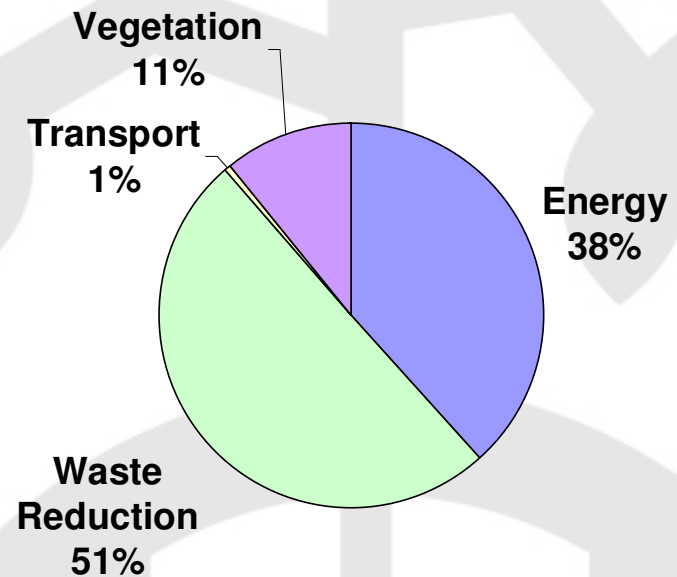


Fort Collins – Emissions & Reductions

Fort Collins Communitywide
2007 Greenhouse Gas Emissions
2.65 Million Tons

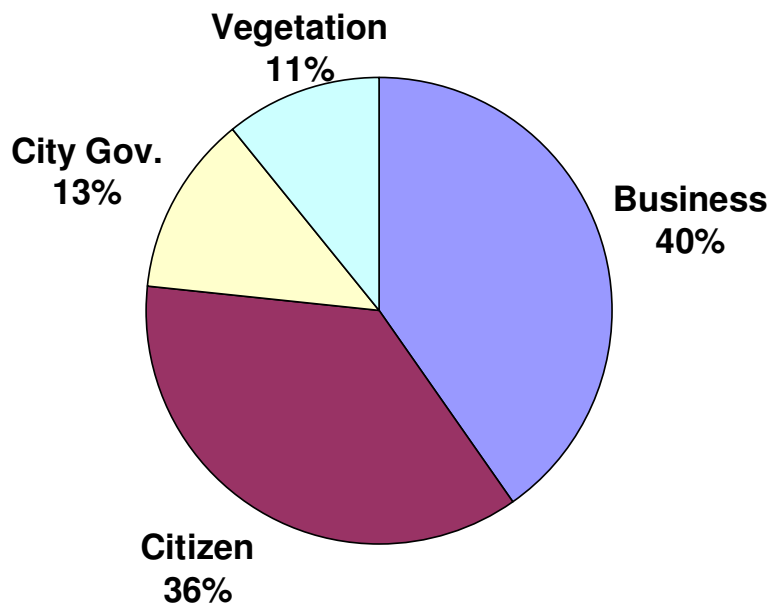


2006 Greenhouse Gas Reductions
244,000 Tons CO₂e

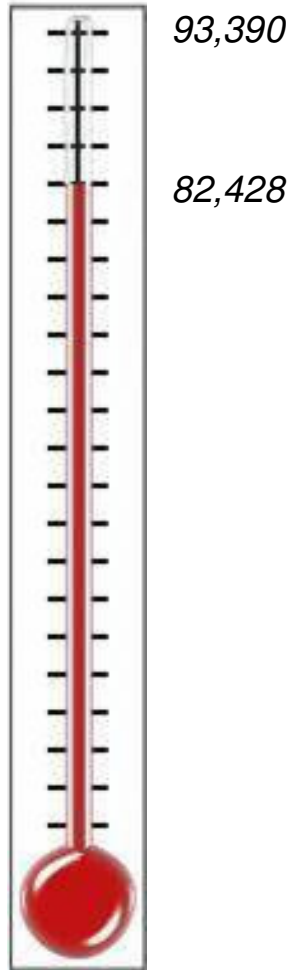


Fort Collins – Climate Wise Role

2006 Fort Collins Greenhouse Gas Reductions



Results to Date



2010 Climate Wise Goal:

Reduce Greenhouse Gas emissions by 93,390 tons/year CO₂e

2007 Savings: **82,428 tons/year CO₂e**

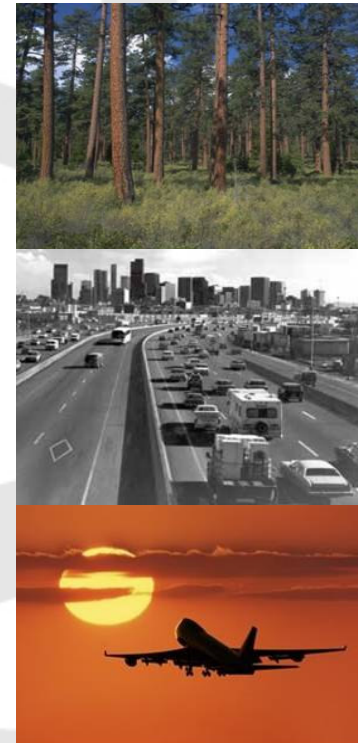
Climate Wise, Business Smart.

The effects of reducing 82,428 tons CO₂e are similar to:

...planting 6,594,000 trees

...reducing 1,036,000 car trips from Fort Collins to Denver and back

...saving 88,630 round-trip flights from Denver to NYC

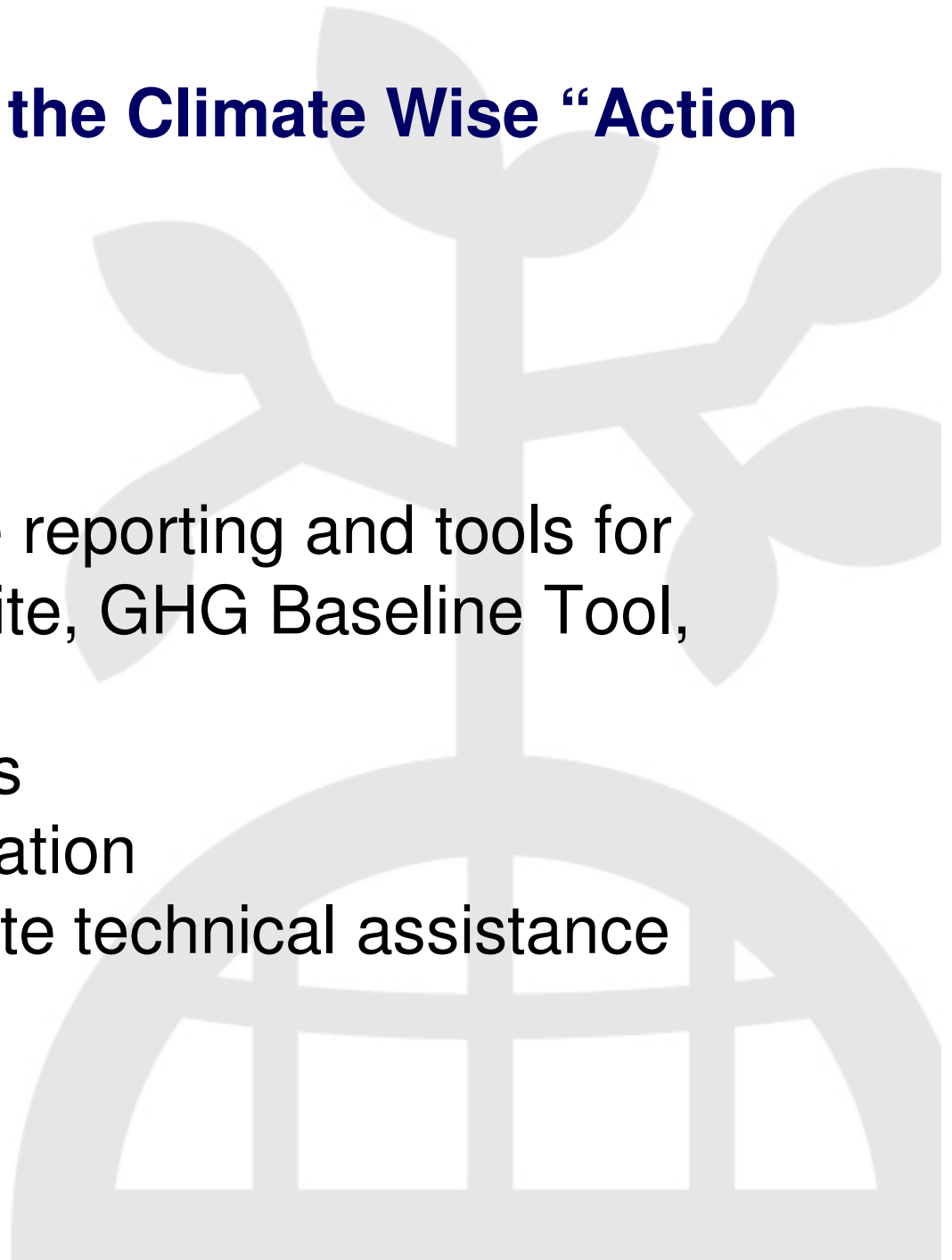


Climate Wise, Business Smart.

Some of the tasks on the Climate Wise “Action Plan radar screen” ...

Late 2008/2009...

- Continue to improve reporting and tools for partners (e.g., website, GHG Baseline Tool, Resource Guide)
- Cost benefit analysis
- Cost savings information
- More access to onsite technical assistance

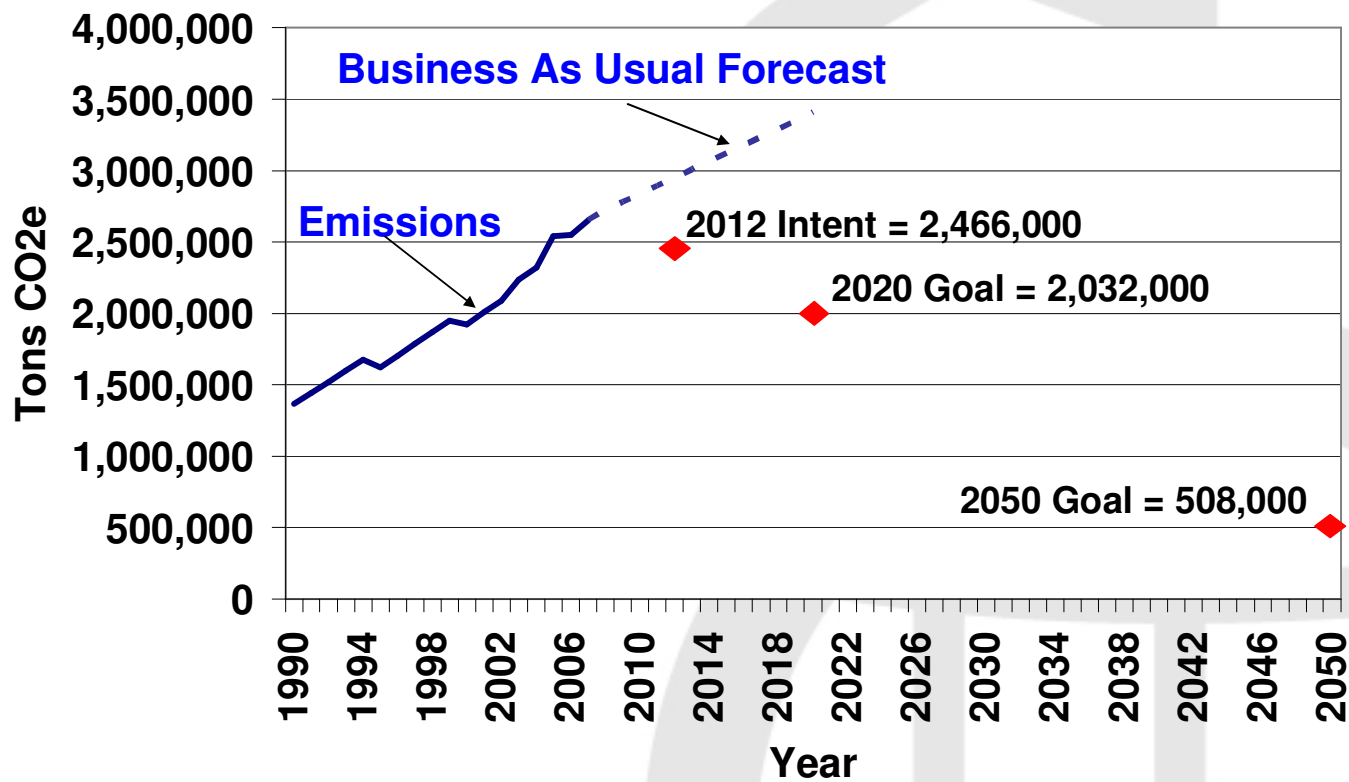


Next Steps and Opportunities

Updated Climate Action Plan (12/08?)

fcgov.com/climateprotection

Fort Collins New Greenhouse Gas Goals



Next Steps and Opportunities

Expand Climate Wise

Update Energy Policy (12/08?)

Trash Services Study Outcomes (2009)

Transit Strategic Plan Update (2009)

FortZED

Clean Energy Cluster

Momentum with other cities

Colorado Carbon Fund

“Every company and city taking action to reduce greenhouse gas emissions has saved money doing so.”

David Northrop, Director of Sustainable Development, Rockefeller Brothers Fund

Greenhouse Gas Reduction: Challenges & Opportunities

Platte River Power Authority

Climate Wise Fall Fair
November 5, 2008

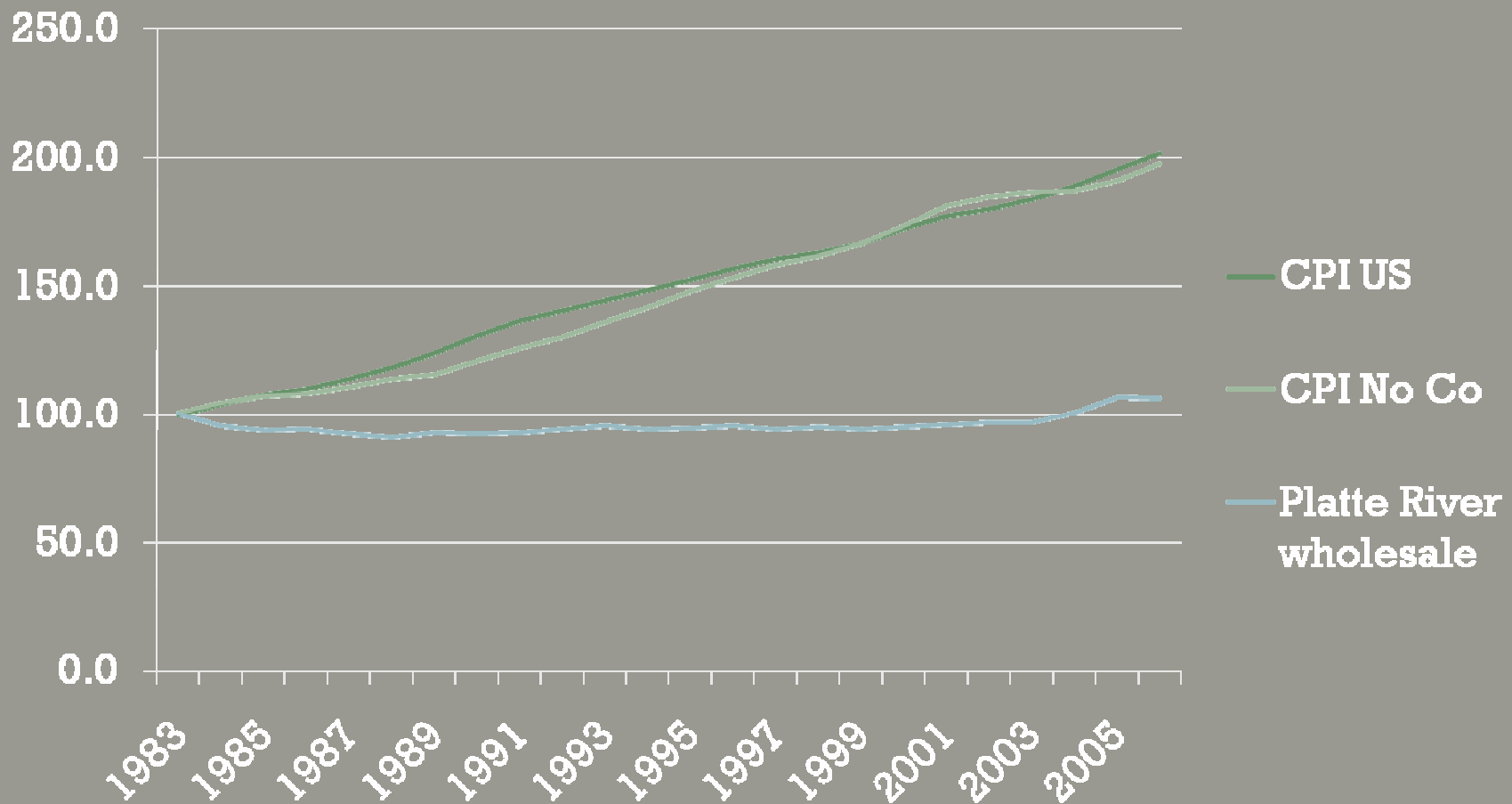
GHG Emission Reduction Drivers

- Consensus that climate change is occurring and caused by human activity
- GHG legislation supported by president-elect Obama
- Lieberman-Warner bill
 - 15% reduction in GHGs by 2020
 - Cap-and-trade targeted at electric power generators, industry, and transportation fuels
- Colorado Climate Action Plan
 - 20% reduction from 2005 levels by 2020
 - 80% reduction by 2050

Platte River's Challenge

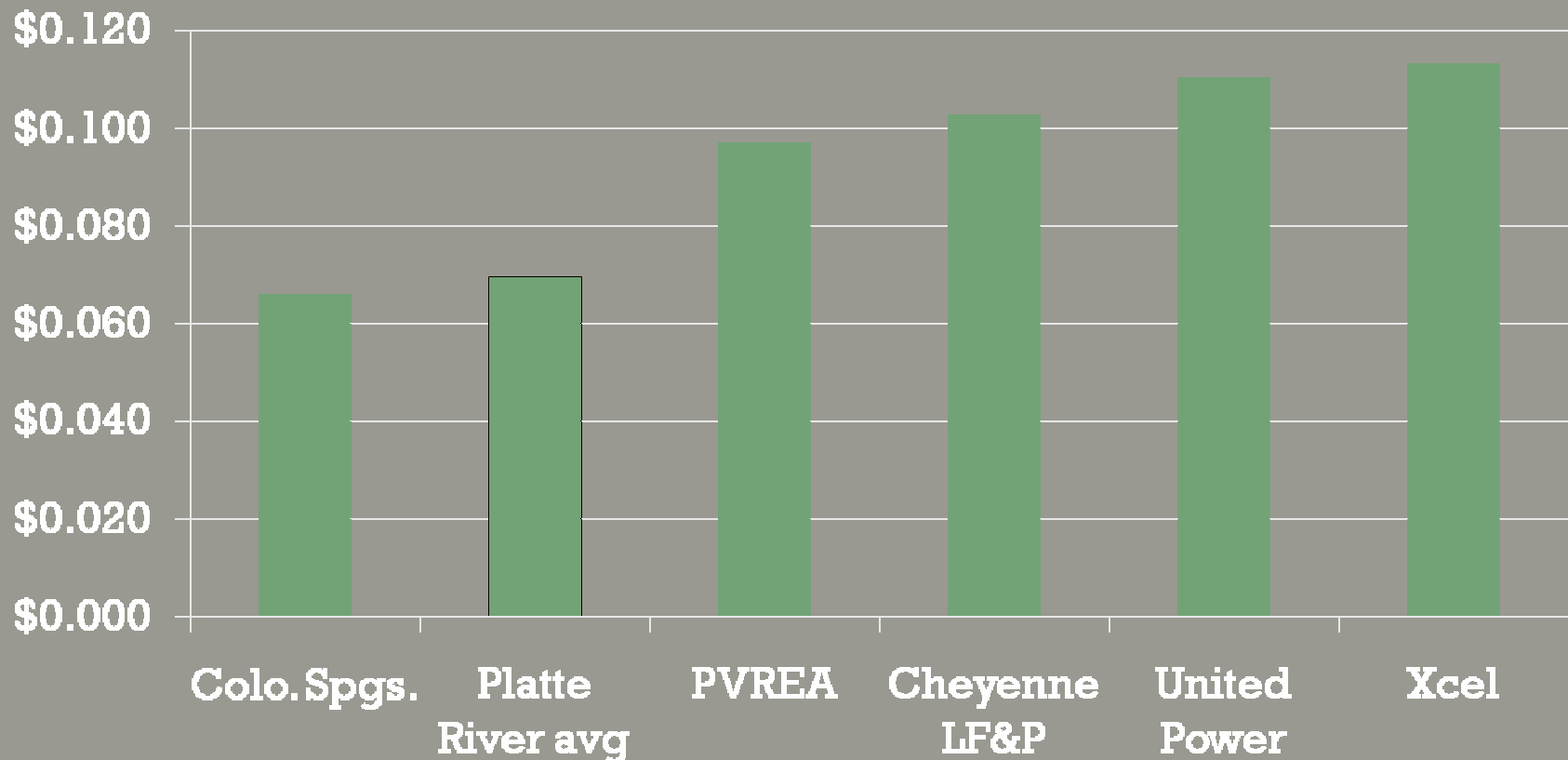


Platte River Wholesale Rate



Platte River Cities' Retail Rates

Average Electric Energy Rates (\$/kWh)



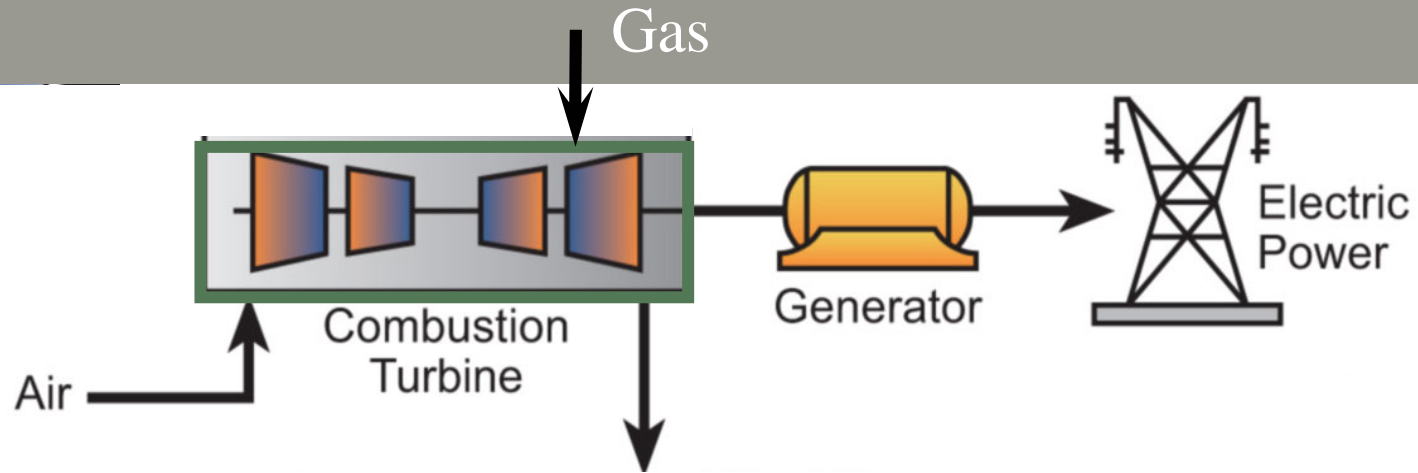
Developing Greenhouse Gas Inventory

- CA Climate Action Registry (CCAR) – First utility outside CA (2005)
- The Climate Registry (TCR) – As a Founding Member (2008)
- Why join?
 - TCR is the single largest climate initiative in North America
 - Common means for reporting, tracking, and verifying emissions
 - Third-party verification
 - Understand risks/costs associated with developing policy
 - Participate in policy discussions
 - Prepare for mandatory reporting (Colorado, EPA)

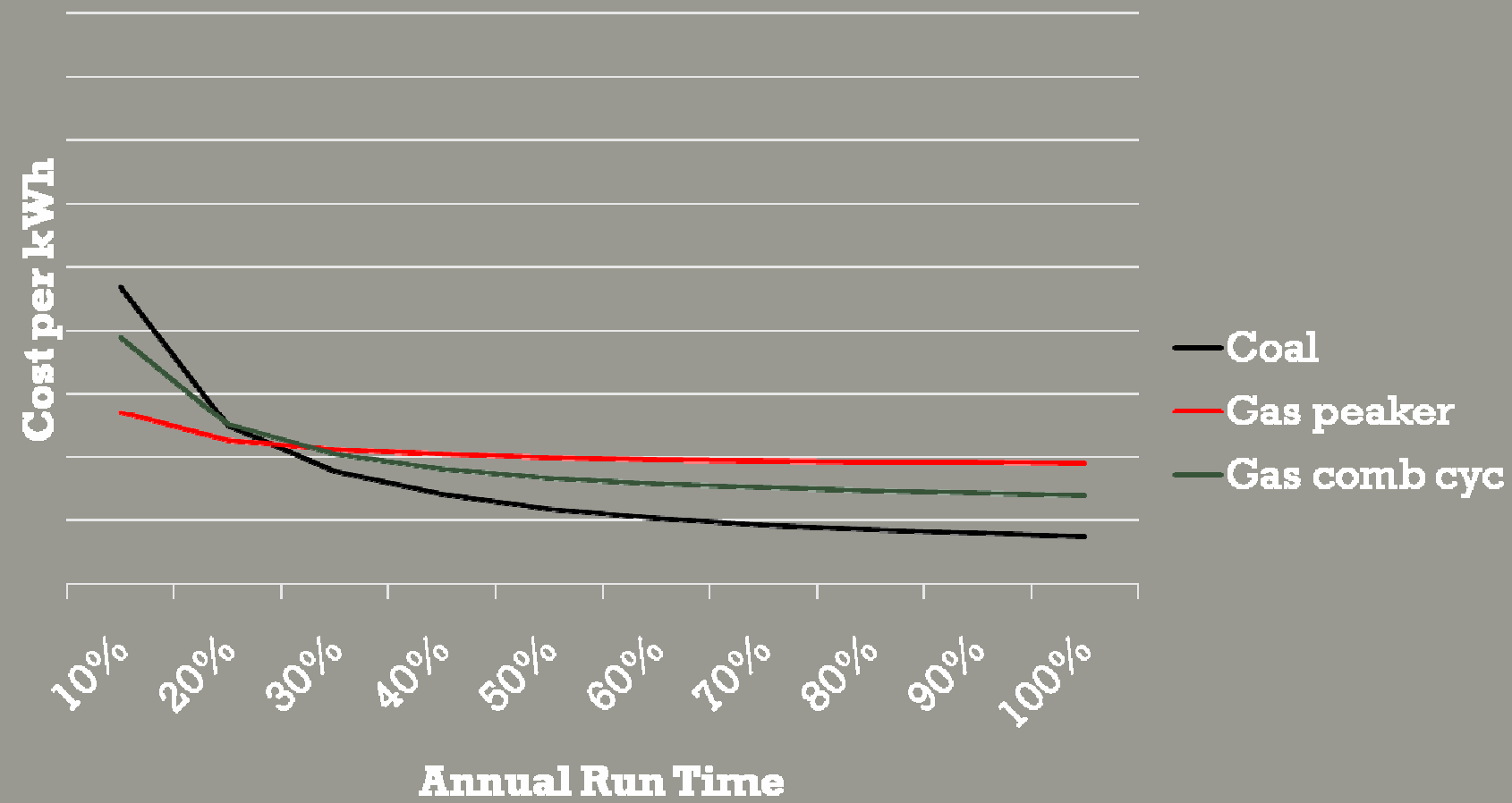
Considering GHG Reduction Options

- ◉ Renewable generation
- ◉ Energy efficiency programs
- ◉ Reduce surplus sales
- ◉ Replace coal with natural gas generation

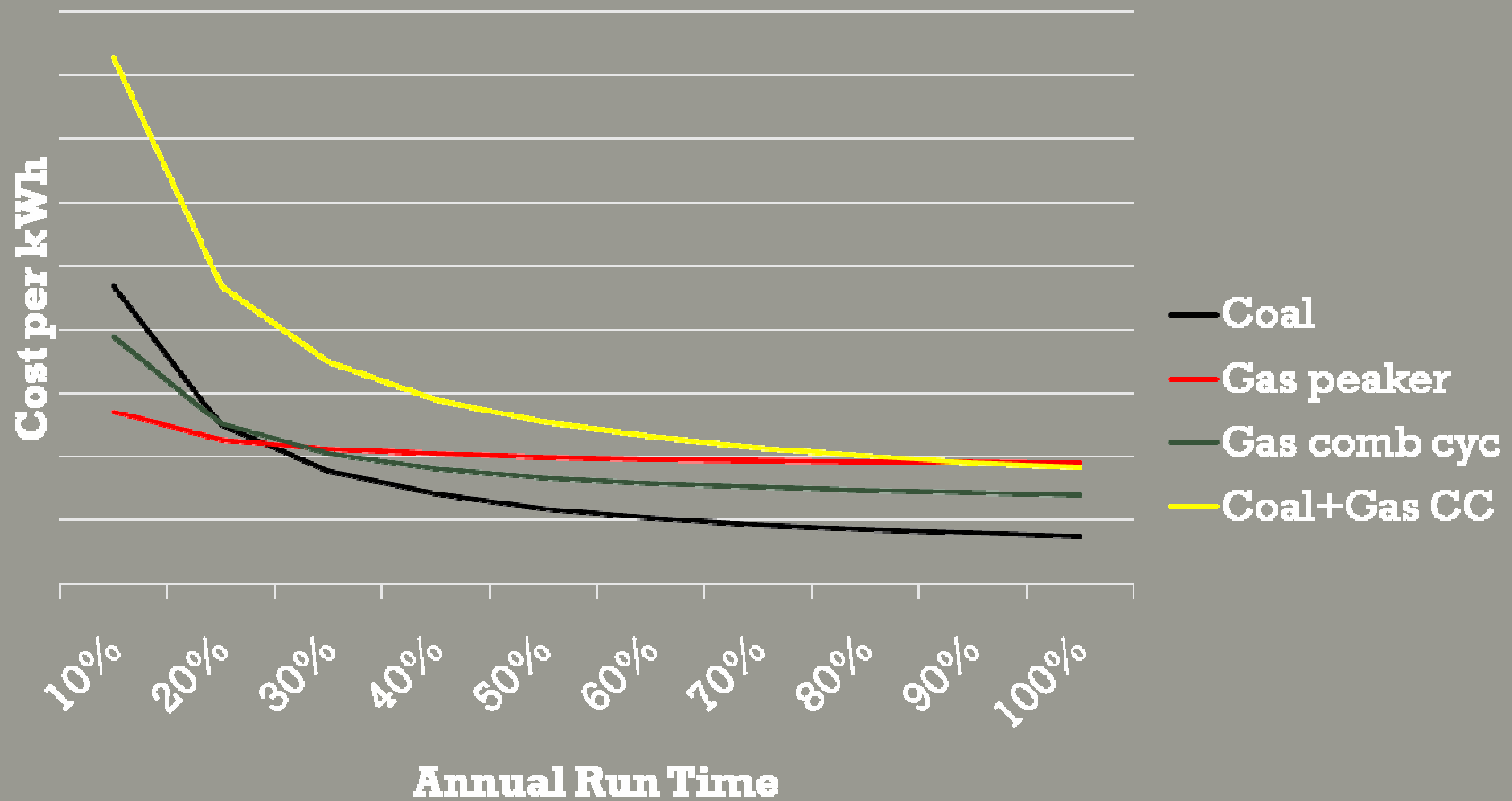
Gas Combined Cycle



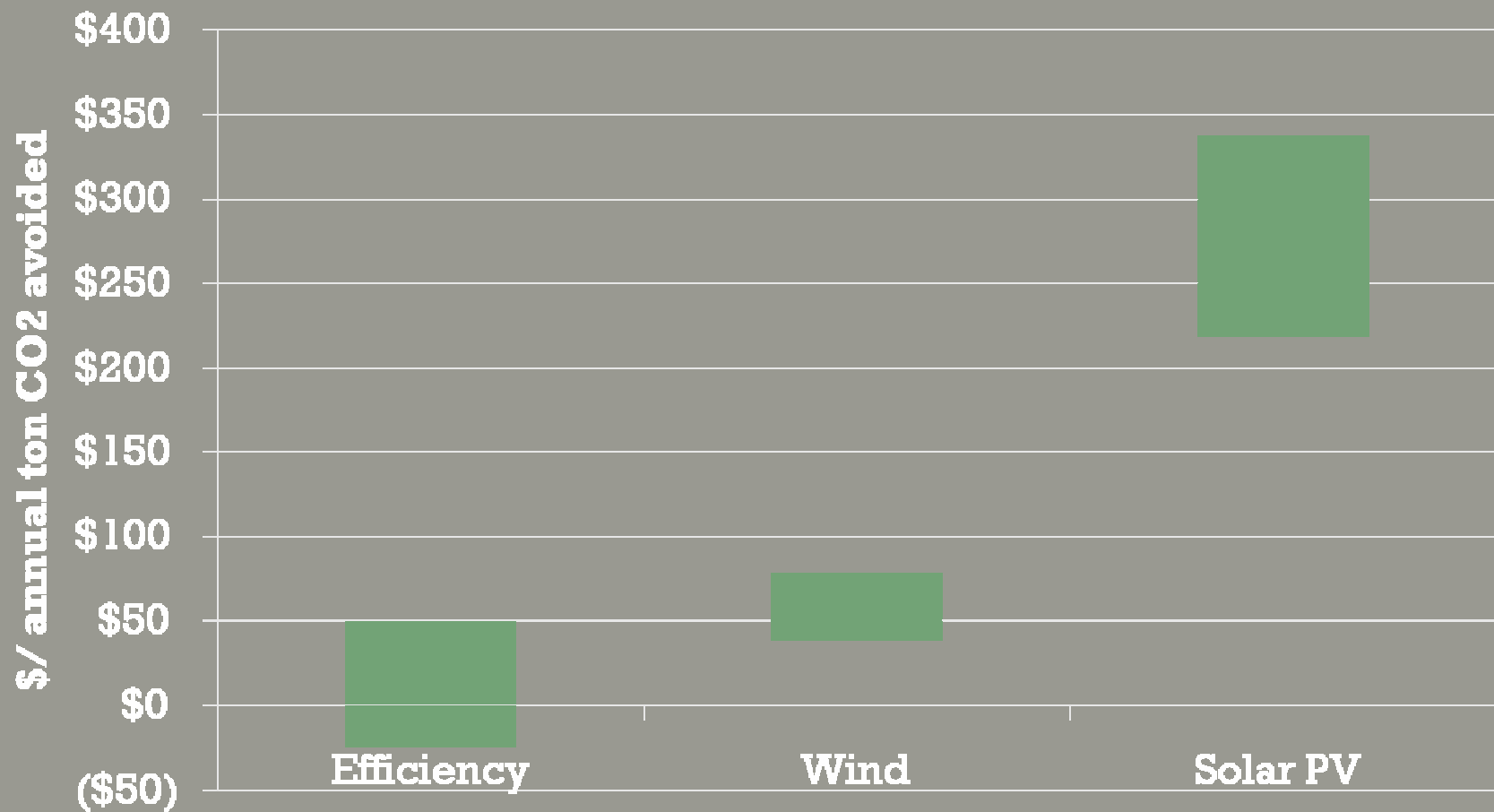
Generator Selection by Run Time



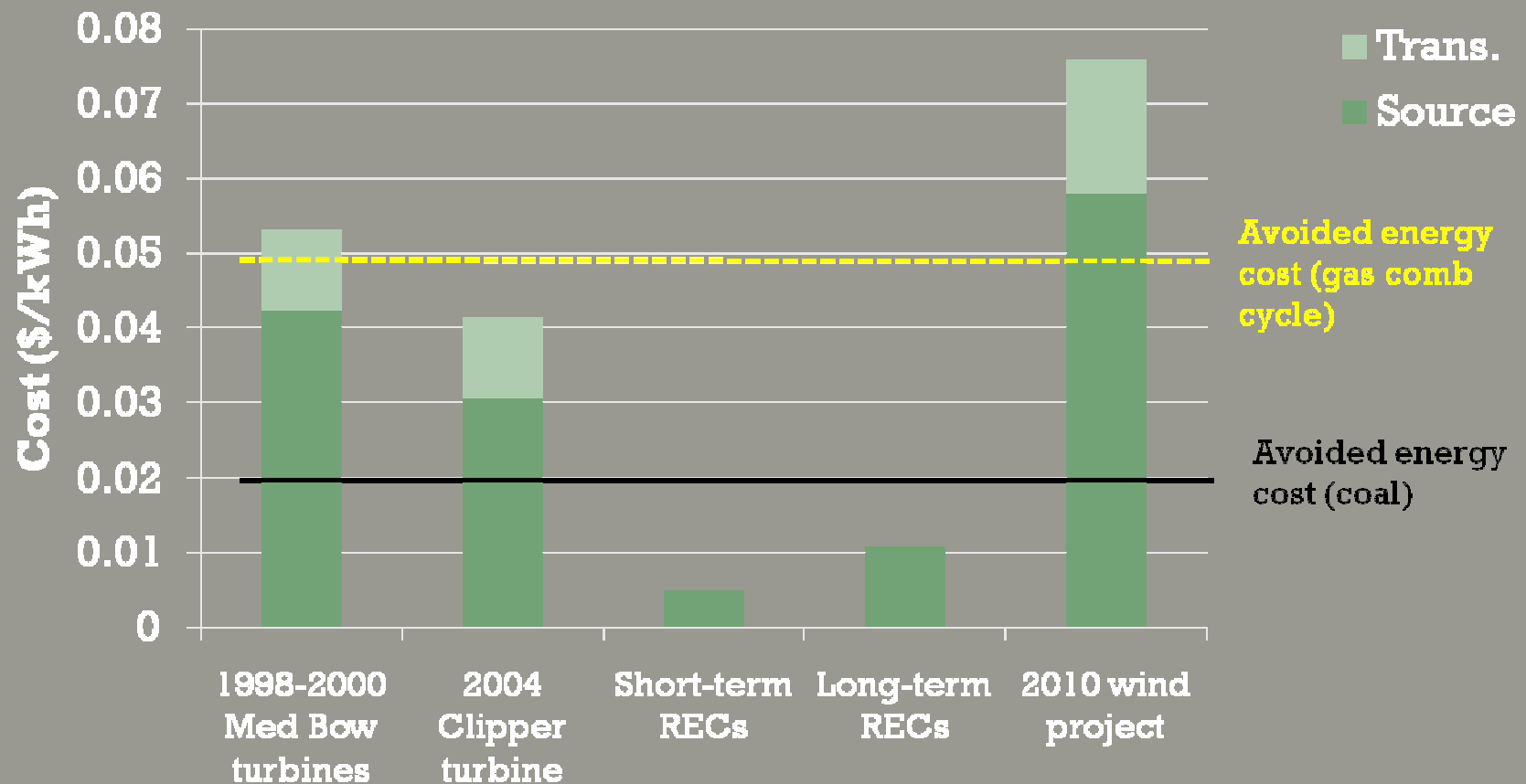
Generator Selection by Run Time



GHG Mitigation Costs: Efficiency versus Renewables

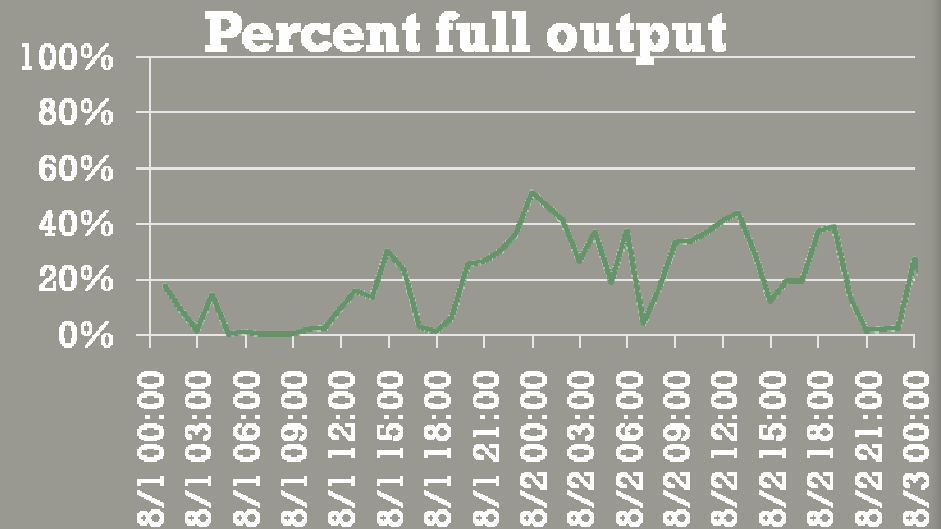


Wind Costs



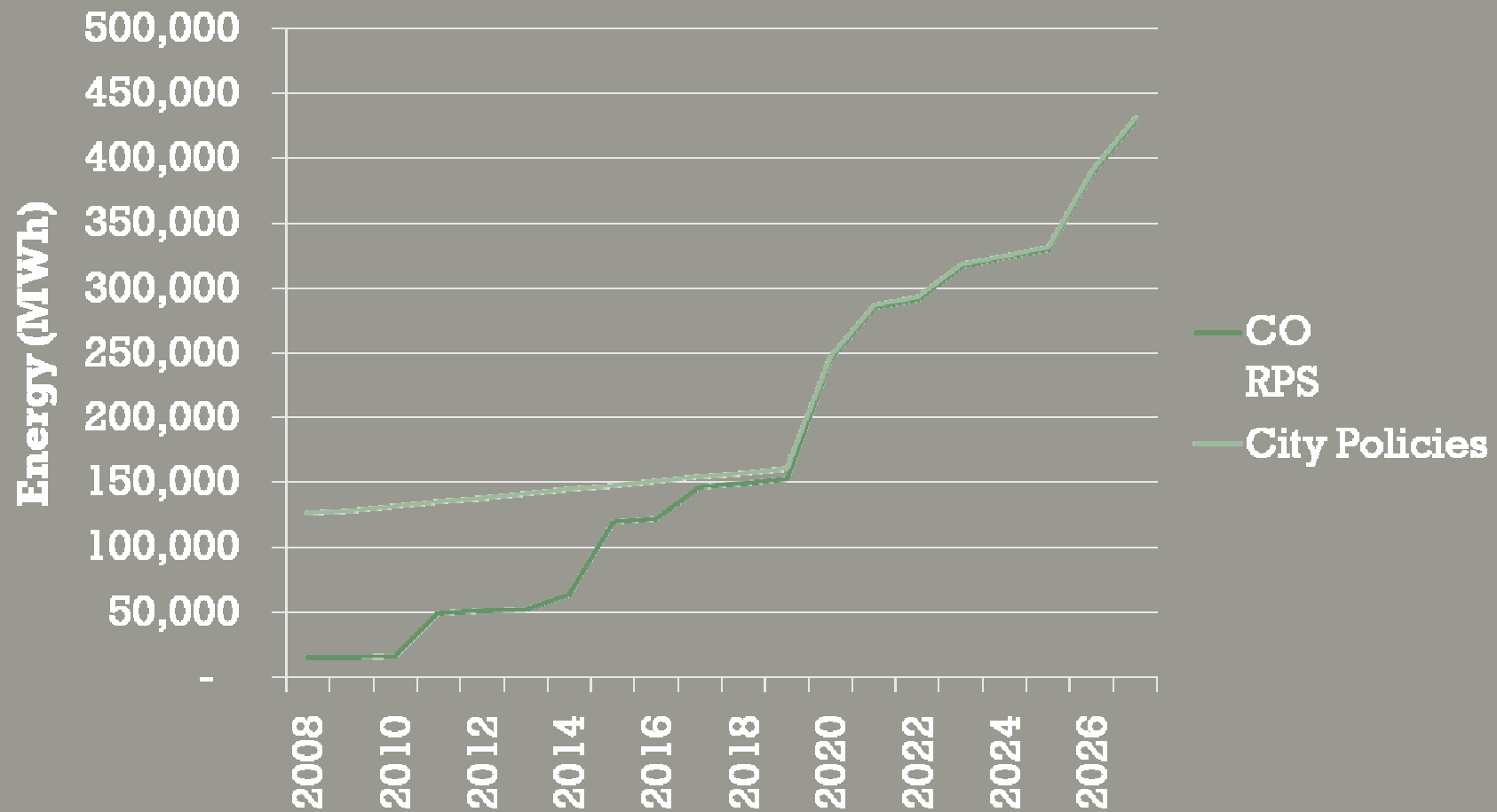
Handling Intermittency

- Requires “ancillary services”
 - Generation that smooths variations in load or intermittent generation



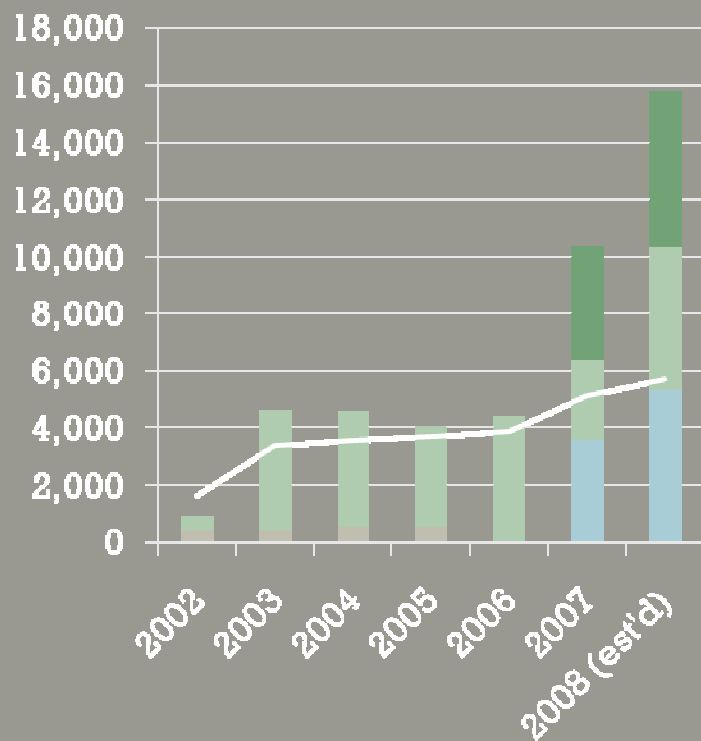
- Capacity is limited in this region
- May need to provide it ourselves
 - Hard to do with coal
 - Gas combined-cycle is preferred

Increasing Renewables

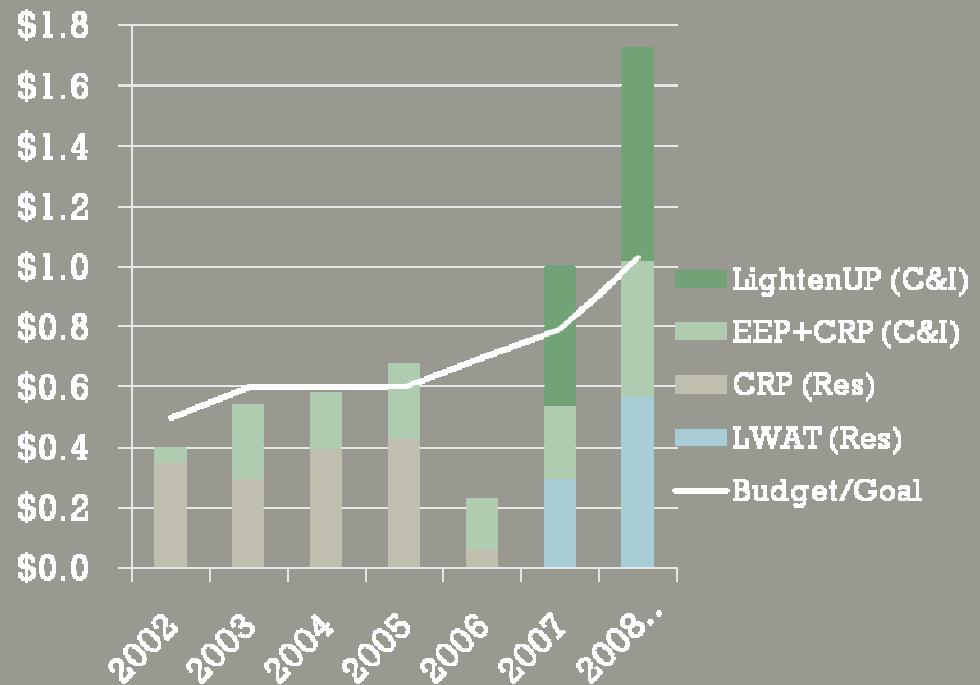


Energy Efficiency Programs

First-Year Energy Savings (MWh)



Program Investment (Million \$)

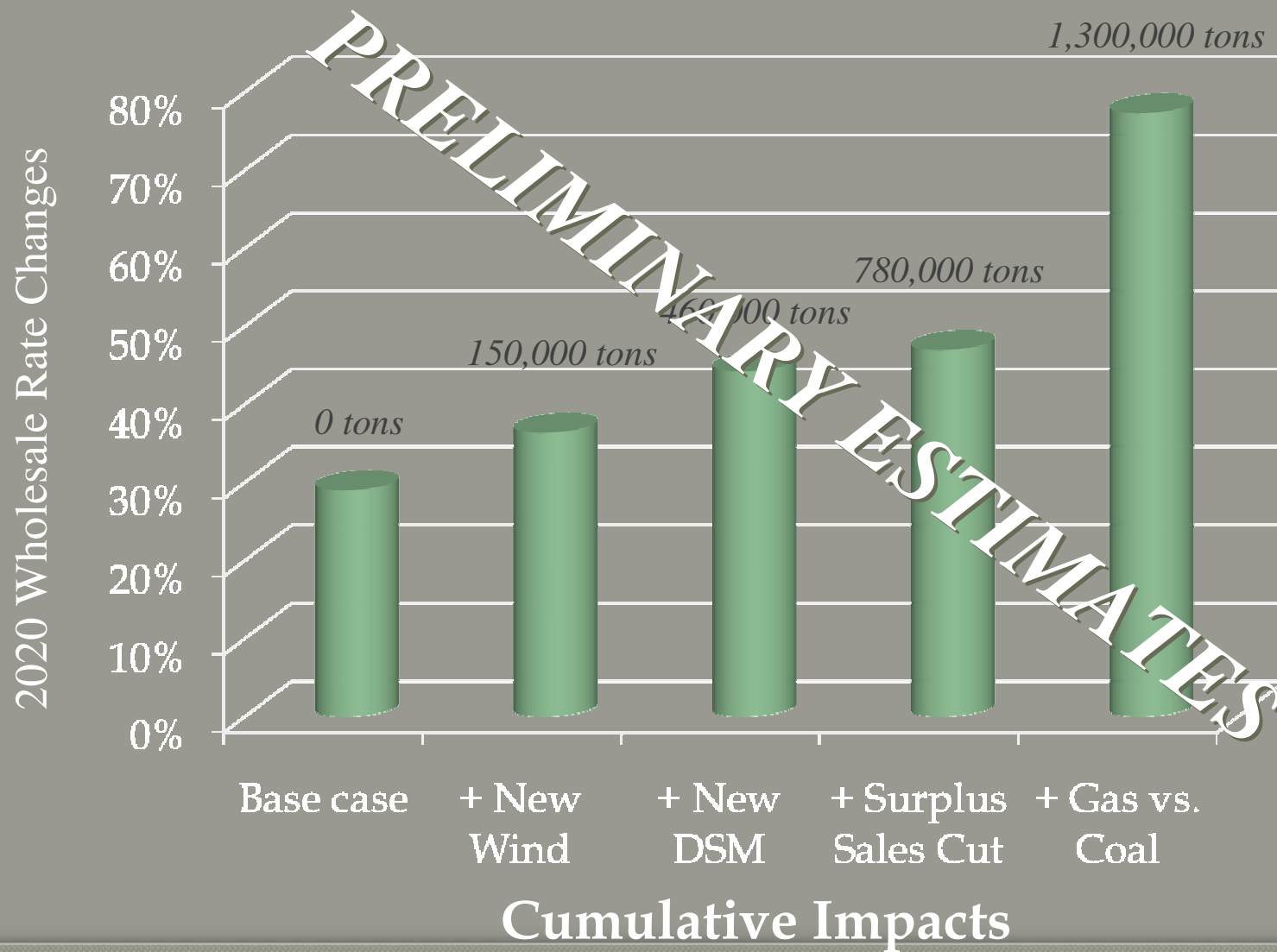


How Much Can Efficiency Do?

Platte River Load Forecast with Efficiency Options (MWh)



What Might this Cost?



Summary

- Near-term (2020) GHG reduction targets challenging but achievable
- Electric rate increases are likely
- Energy efficiency is the most cost-effective way to reduce GHGs due to electric use
- Watch for added efficiency program offerings from Platte River and Fort Collins Utilities

Questions?

Paul Davis

Energy Service Manager

davisp@prpa.org

970-229-5370

OK, the Big Picture...what next?

Work together to maximize your partnership!



OK, the Big Picture...what next?

Work together to maximize your partnership!

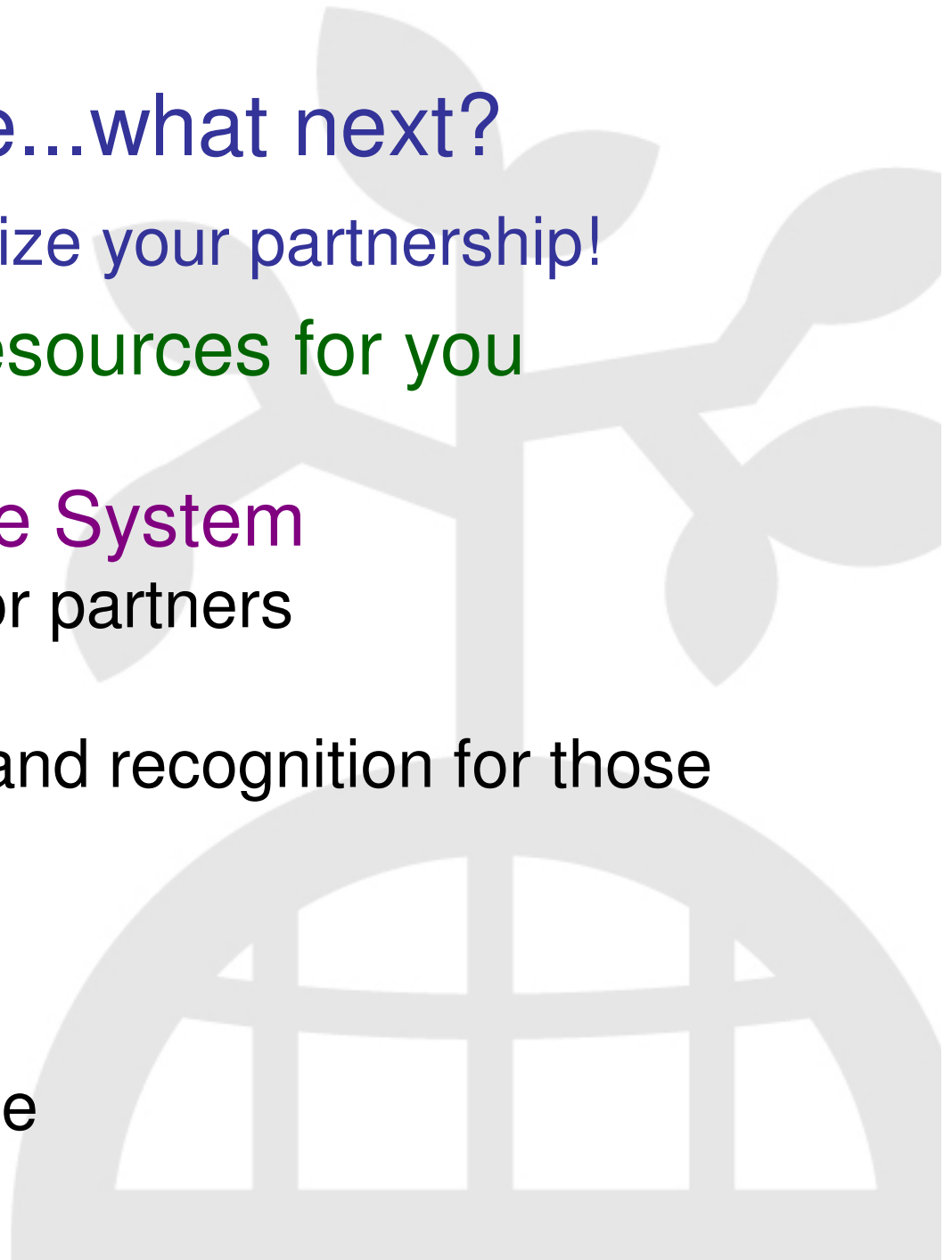
More Tools and Resources for you

Tiered Performance System

- More flexible for partners
- More benefits and recognition for those who do more

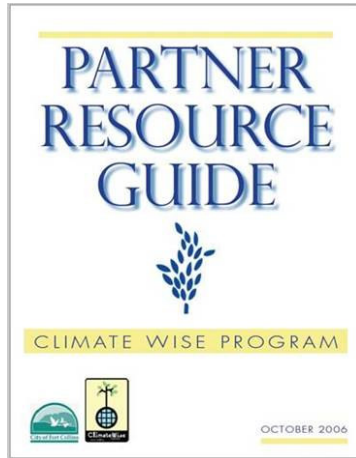
Web Site

- More accessible



More Tools and Resources

Now on the Web site!!



- Resource Guide: Instructions and Examples
- Data Collection Form
- Self-assessment Checklist
- Greenhouse Gas Calculator
- New for 2008: GREEN Works pilot—Challenge forms
- Partner Profiles
- Download logos!

ClimateWise Green House Gas Baseline Tool

This tool was developed for ClimateWise partners to aid in the process of developing a greenhouse gas (GHG) baseline.

In order to develop a GHG baseline for your company, you will need the following information:

- utility bills (preferably for at least one year) including electricity, water, and natural gas
- vehicle miles traveled and vehicle type
- airline miles traveled (or at least an idea of what trips have been made)
- quantity of fuels used for other purposes (i.e. diesel, propane)
- quantity of solid waste landfilled
- quantity of materials recycled

Please enter your company name

Primary contact for GHG baseline

Baseline Year

fcgov.com/climatewise

Updated Web resources

The screenshot shows a Mozilla Firefox browser window displaying the City of Fort Collins Climate Wise website. The browser's address bar shows the URL <http://www.fcgov.com/climatewise/>. The website header includes the **fcgov.com** logo and the **ClimateWise** logo. A navigation menu contains links for **CITY SERVICES A-Z**, **JOBS**, **NEWS/EVENTS**, **HOW DO I?...**, and **CONTACT**. A search bar is located on the right side of the header. The main content area features a breadcrumb trail: **home > departments > natural resources > climate protection > climate wise**. Below this, the **ClimateWise** section provides contact information: **Physical Address:** 200 W. Mountain Ave., Fort Collins, CO 80521; **Mailing Address:** PO Box 580, Ft. Collins, CO 80522-0580; **Phone:** (970) 221-6600; **Fax:** (970) 224-6177; **Normal Business Hours:** 8AM-5PM M-F. A **Learn More** sidebar on the right lists various resources such as **Partners**, **Partner resources**, **Partners in the news**, **Join Climate Wise**, **Progress & Results**, **Climate Protection**, **Business in Fort Collins**, and **2006 Climate Wise Annual Report [pdf]**. The **Climate Wise** section includes a logo and a description: "Climate Wise is a voluntary, city-run program that is dedicated to helping local business and the environment. Through environmental assessments and creative solutions, the City of Fort Collins Climate Wise Team helps businesses tackle modern-day business challenges that impact bottom lines and the quality of life in Fort Collins. Read on to learn how your business can be part of the more than [70 elite local companies](#) that have joined the Fort Collins Climate Wise program." The **Partner Profile: Anheuser-Busch** section features a logo of an eagle and a text block: "From internal practices to ensure environmental excellence, to the support of conservation, wildlife, and environmental organizations, Anheuser-Busch's philosophy is one employees, shareholders, and consumers alike can embrace. Read Anheuser-Busch's full profile [here](#) (1.5 mb pdf)." The **How Does Climate Wise Work?** section states: "The goal of the Climate Wise program is to reduce greenhouse gas emissions by promoting [waste reduction](#), [energy savings](#), [alternative transportation](#), [water conservation](#), and practicing pollution prevention. Businesses that join the program are provided with free:" followed by a list of services:

- [Technical Assessments](#)
- [Public Recognition](#)

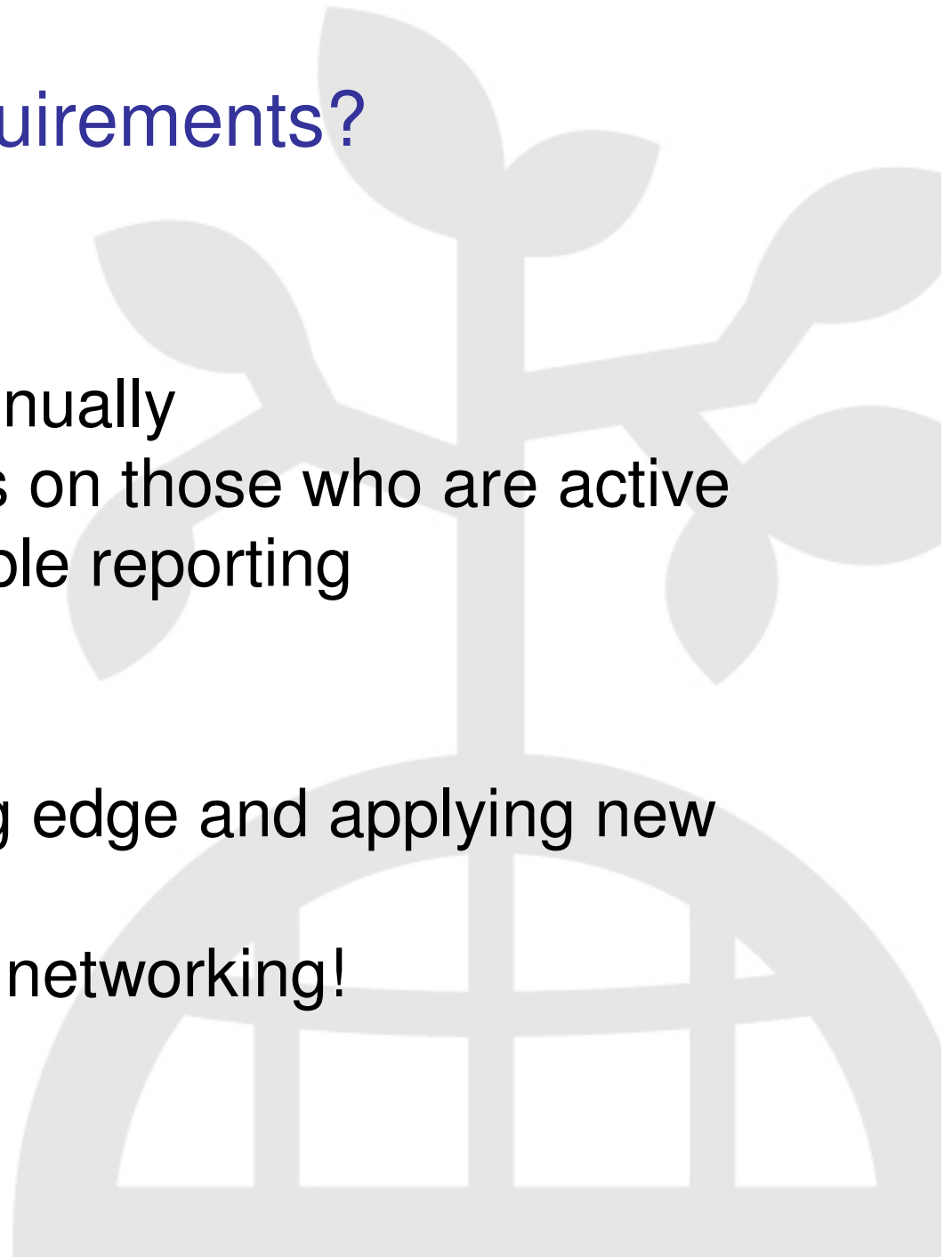
Why some of the requirements?

Program Credibility

- Need partner data annually
- Spend City resources on those who are active
- New database=credible reporting

Staying active

- Staying on the cutting edge and applying new ideas and measures
- Learn from others by networking!



Reporting Annual Data

Why?...

Shows progress toward goals

- Cost savings
- Reduced GHG emissions
- Program accountability
- **NEW: CONFIDENTIALITY**

Case in Point – Poudre School District

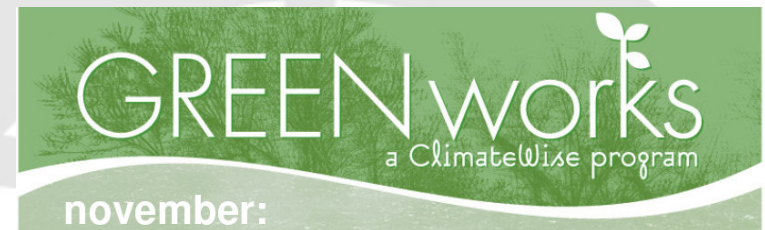
A lighting retrofit at Tavelli Elementary reduced the school's electrical consumption by 35,000 kWh annually and produced annual cost savings of \$2,310.

Case in Point – New Belgium Brewing

New Belgium recycled almost 500 tons of traditional recyclables and thousands of tons of spent grain and yeast from the brewing process.

Climate Wise Advisory Committee

- 2006: A business plan with new tiered partner levels of Bronze, Silver, Gold and Platinum
- Partner Advisory Committee provides input into the Business Plan and Climate Wise operations.
- Help ensure the program is going in a direction desired by the partners and stakeholders.
- Last year, Advisory Committee members asked program staff to build in strict requirements for Platinum partners to “continually raise the bar.”



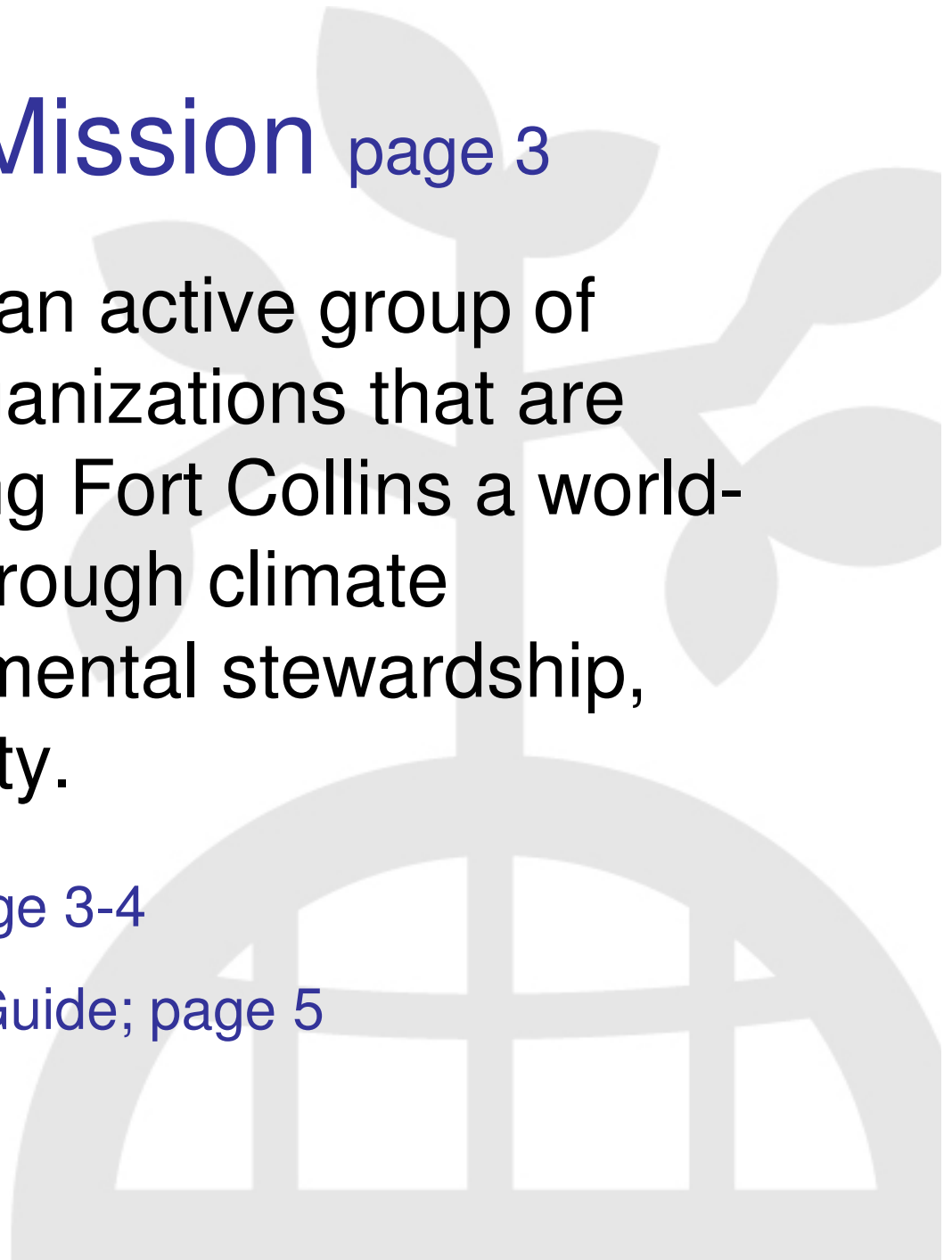
Climate Wise, Business Smart.

Climate Wise Mission page 3

To build and serve an active group of businesses and organizations that are committed to making Fort Collins a world-class community through climate protection, environmental stewardship, and economic vitality.

Goals and Objectives; page 3-4

Motivation for Resource Guide; page 5



Levels of Participation

- Bronze
- Silver
- Gold
- Platinum

Platinum Case in Point – The Neenan Company’s Baseline Efforts

The Neenan Company participated in a pilot of the Climate Wise program’s GHG Baseline Tool software. Using the tool, Neenan was able to easily quantify the GHG emissions resulting from its energy use, water use, waste, and transportation activities. The resulting GHG baseline has helped Neenan to establish realistic goals for reducing and offsetting its GHG emissions. Neenan is also pursuing LEED-EB (LEED for existing buildings) for its worksite.

Partner Levels

Bronze Level

One time:

- Sign agreement
- Conduct assessment or use self-assessment checklist
- Place plaque in lobby; window cling
- Notify employees and customers of Climate Wise participation
- Attend this meeting once or as needed (employee turnover, etc.)

Annually:

- Report data by first quarter
- Attend 2 meetings/year (one Partner-only meeting)

~11 hours per year



Partner Levels

Silver Level

Annually:

- Attend 2 meetings/year
- Implement one measure or project and report



Partner Talk and Tour

*Project example: update old lighting,
Turn off computers at night,
Add a new recycling material*



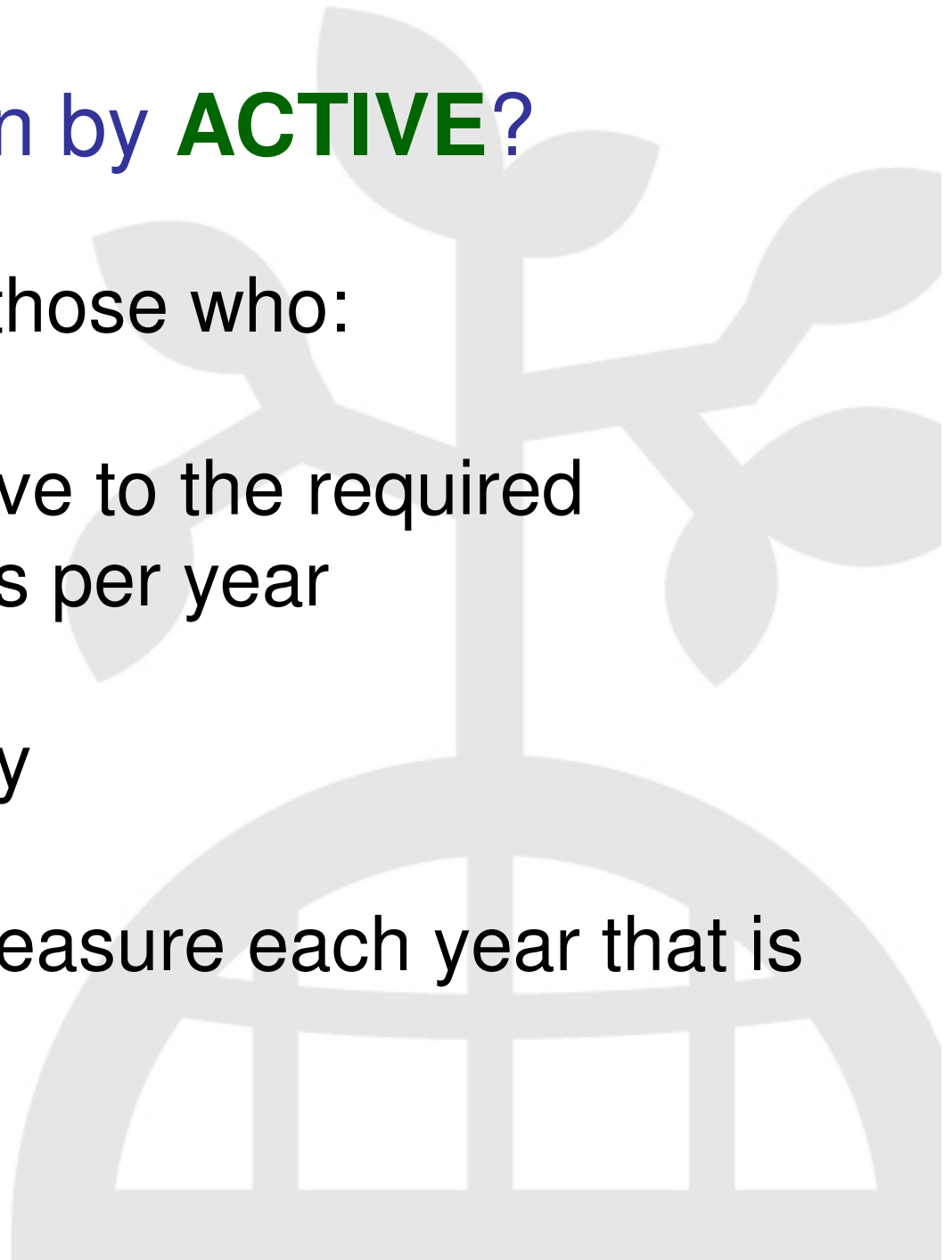
Envirovation – A Climate Wise Showcase

Once you achieve a level, you stay at that level as long as you are **ACTIVE** in the program.

What do you mean by **ACTIVE**?

Active partners are those who:

- Send a representative to the required meetings or seminars per year
- Report data annually
- Implement a new measure each year that is feasible



Climate Wise Benefits

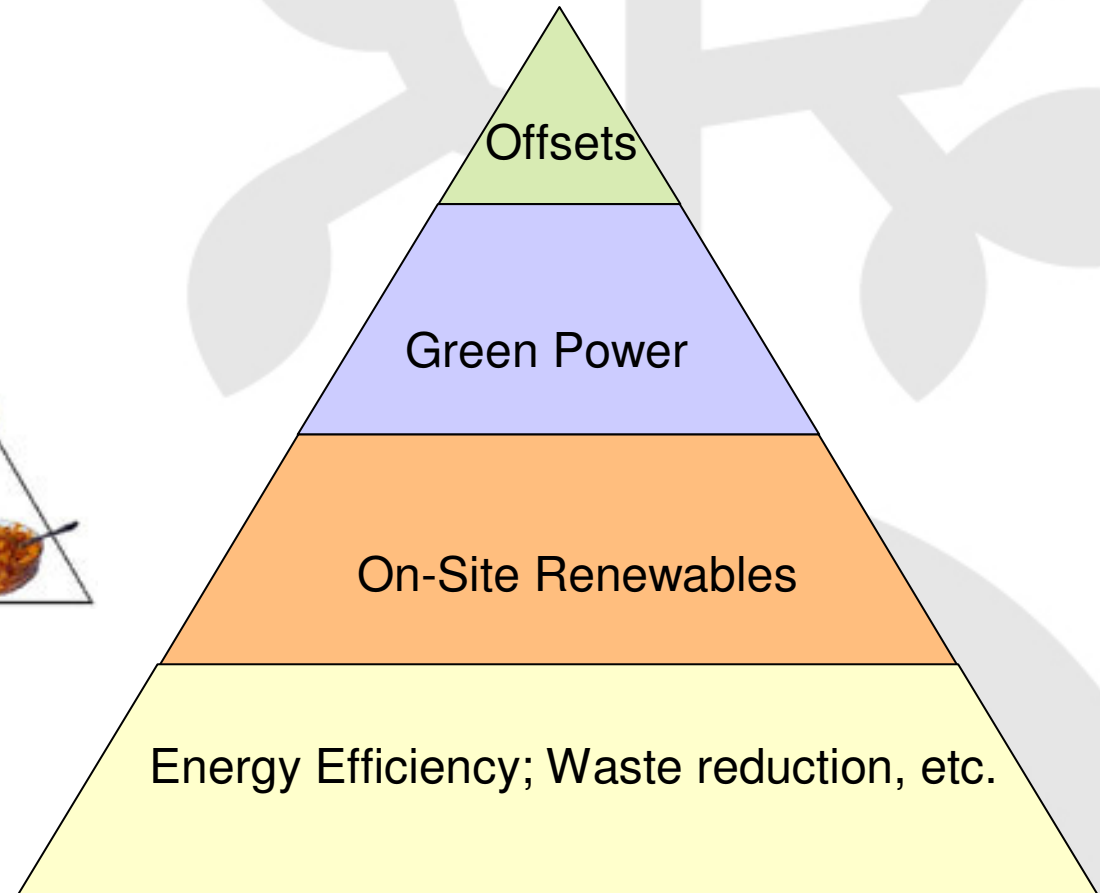
There are a lot of benefits to participating in the program!

Here are a few:

- Community recognition: Boost image
**through events, print, radio, etc.
- Cost savings
- Networking & showcasing your successes
- Access to new tools
- On-going City staff support
- Advertising
- Loyal customers
- And much more!



The Balanced Low-carb Diet



Summary

A faint, light gray background illustration of a plant with a globe as its base. The plant has a central stem with several leaves and a globe-like structure at the bottom with a grid pattern.

- Climate Wise tiers challenge businesses to reach higher levels of performance AND reap higher benefits
- New tools make it easier to participate, show progress, and increase performance

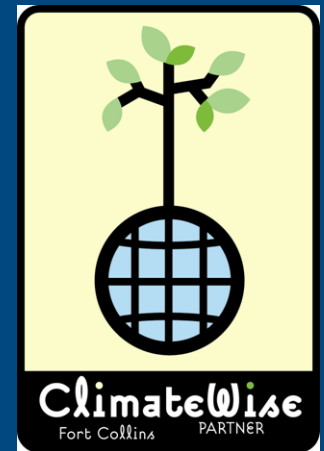
Your Climate Wise Team!



**Climate Wise Team Panel
Team Announcements
Question and Answer**

Business Energy Efficiency Programs

- o LIGHTENUP Program
- o Electric Efficiency Program
- o Integrated Design Assistance Program
- o Cooling Rebate Program
- o Business Environmental Program Series
- o Technical Assistance
- o Keep Current
- o Electri-Connect





Employer-Based Programs & Services



Betsy Graves
Transfort Marketing
City of Fort Collins
November 5, 2008



PassFort Overview



PassFort Changes & Guidelines



1. Lower minimums!
2. The Voucher alternative
3. New services linked to unique pass ID numbers

Additional PassFort Services

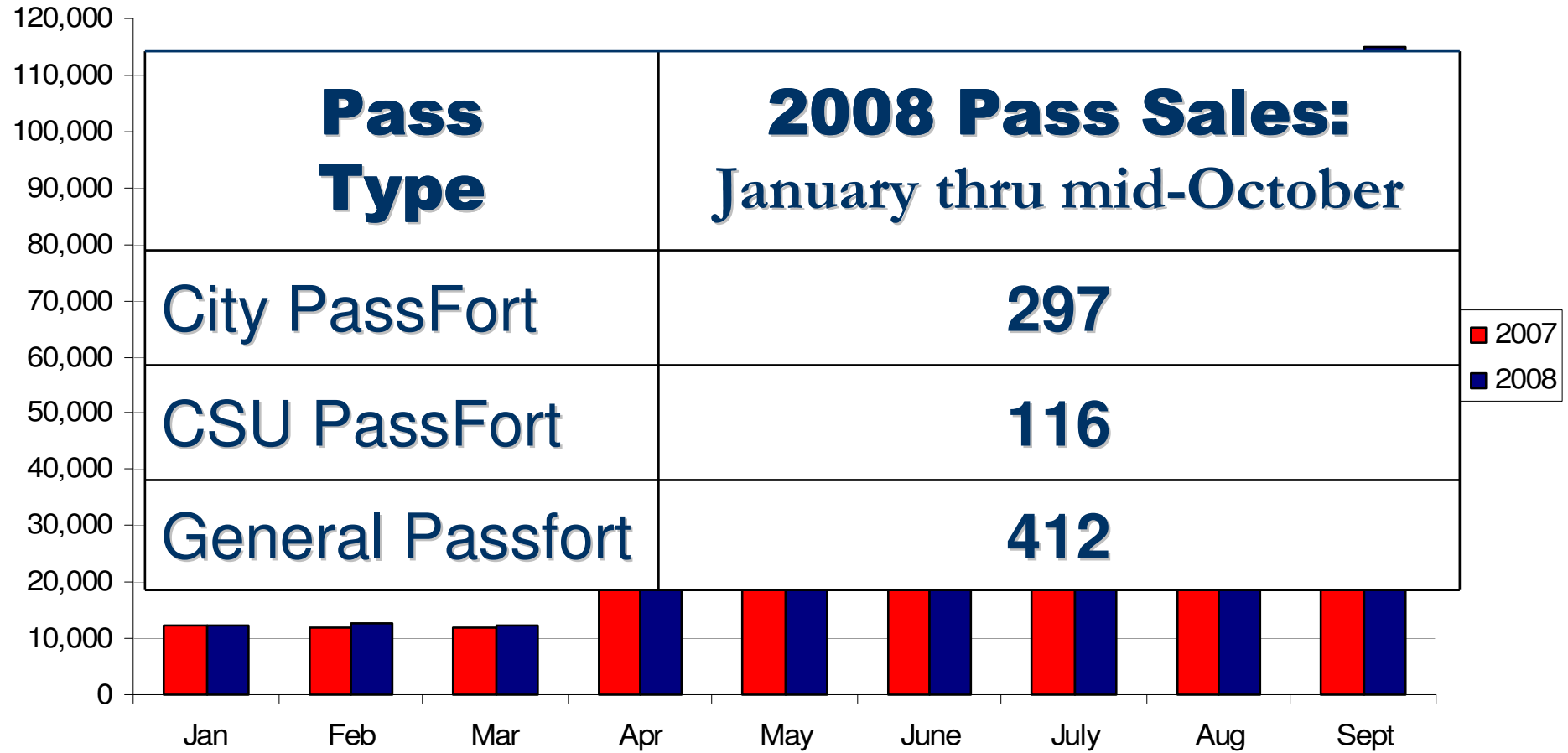


- 1. Guaranteed Ride Home Service (GRH)**
- 2. Pass Usage Reports**
- 3. Pass Deactivation and Replacement**

PASSPORT SALES &

Ridership

Number of General PassFort Trips Per Month





Two Ways to Purchase Passes

1. From Transfort
2. From Chamber or DBA



Ridership Report - PassFort Dilithium Industries December 2007



Pass range history:

Original issue 7/13	1300-1310
Deactivated 11/23	1302
Replacement 11/23	1425, 1426

Pass Number	Number of Rides						
	July	Aug	Sept	Oct	Nov	Dec	Total
1300	27	66	52	45	50	28	268
1301	18	39	13	8	5	2	85
1302	0	0	28	23	16	0	67
1305	0	0	0	0	4	2	6
1306	0	0	0	5	50	22	77
1308	0	0	0	0	0	38	38
1425	0	0	0	0	5	69	74
TOTAL	45	105	93	81	130	161	615
Unique Pass Scans	2	2	3	4	6	6	7

NOTE:

Some deactivated pass numbers will still show ridership numbers for the month that it was deactivated if the pass was scanned at least once after the first of the month. Only passes that have scanned at least once will appear on the report.

What is Test Ride Transfort?



Test Ride Transfort



START DATE	BUSINESS NAME	EMPLOYEES
2/12	DirecTECH	250
3/5	Exodus Moving	50
3/19	FRCC Staff	400
3/19	Wal-Mart SuperCenter – Ft Collins	600
4/2	AVAGO Technologies	600
8/20	Intel Corporation	350
11/15	Wal-Mart SuperCenter – Loveland	500

Air Quality Impacts in '07



38,613 VMT

9,901 miles x 3.9 miles

537 kg

(38,613 VMT x .01391)



Prepared for:
Fleet Enterprise

December 2007

Test Ride Transfort - Ridership Report

Start 7-Aug-07
End 7-Mar-08

Program Period To Date - Number of Rides

Pass Number	Month 1 August	Month 2 September	Month 3 October	Month 4 November	Month 5 December	Total
8004	4	2	2	0	0	8
8008	27	57	69	58	46	257
8009	0	0	0	12	18	30
8011	8	4	0	2	8	22
8054	0	0	2	0	0	2
8055	0	0	0	32	46	78
8058	0	0	0	0	6	6
8061	0	0	0	0	11	11
Totals	39	63	73	104	135	414
Unique Pass Scans	3	3	3	4	6	8
Pass Scans >10/month	1	1	1	3	4	

Transfort is one of Fort Collins' finest amenities





Thank you



Betsy Graves

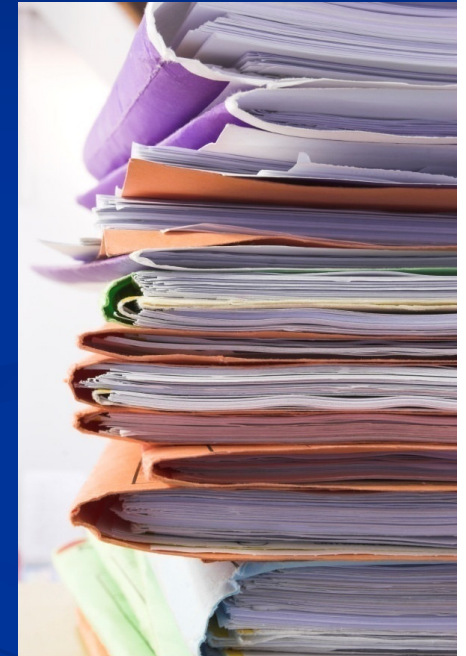
692-3300

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Recycling and Waste Reduction

Natural Resources Department / Climate Wise program: information, technical assistance

- Recycling
- Source reduction
- Reuse
- Resources
 - General information: fcgov.com/recycling
 - Computers and electronics: fcgov.com/ewaste
 - Green meetings: fcgov.com/recycling/greenmeetings.php
 - Hard-to-recycle materials: fcgov.com/recycling/centers.php





THANK YOU FOR YOUR TIME!!

Next up: Data Collection
We will begin promptly at 10:20 AM
Climate Wise, Business Smart.