

Climate Program

Quarterly Update



November 13, 2012

Outline

Climate

- **Departmental Climate Plan Reporting**
- Positive Impact on Climate and Community (PICC)
- Austin Green Business Leaders

2011 Carbon Footprint

Summary

ENERGY	QTY	MTCO ₂ e	Est. Cost
Natural Gas (ccf)	28,657	156	\$151,884
GreenChoice (kwh)	5,799,229	0	\$753,900
Non-GreenChoice (kwh)	0	0	\$0
Generator (gal)	110	1	\$341
<i>Subtotal</i>		157	\$906,125
MOBILE FLEET			
B20 (gal)	757	7	\$2,527
CNG (gal)	0	0	\$0
Diesel (gal)	1,292	13	\$4,006
E85 (gal)	0	0	\$0
Gasoline (gal)	8,047	72	\$22,611
Propane (gal)	63	0	\$160
Gasoline-Mi Reimb. (gal)	5,621	50	\$59,647
Vehicle Refrigerant (lbs)	160	8	
<i>Subtotal</i>		152	\$88,952

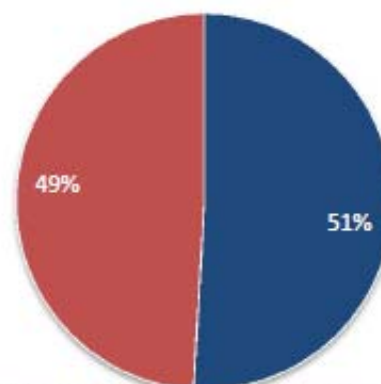
Your Carbon Footprint is : **309**
metric tons of CO₂

You Emit: **0.8**
metric tons of CO₂ per
employee

You have: **met**
your 2011 performance
measure target

Carbon Footprint

■ ENERGY ■ MOBILE FLEET

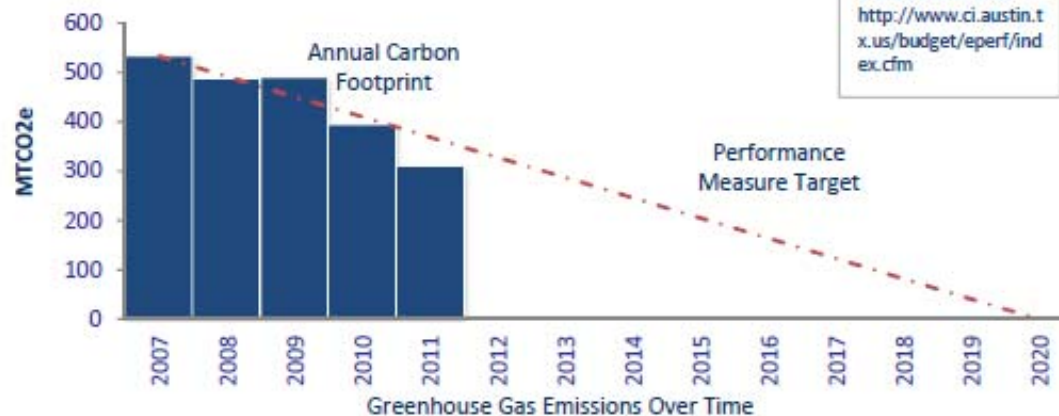


Sources of Greenhouse Gas Emissions

PROFILE:

Buildings:	21
Mobile Fleet & Equipment:	22
Employees:	383

Reference the
City of Austin's
Budget website for
more information:
<http://www.ci.austin.tx.us/budget/eperf/index.cfm>



Greenhouse Gas Emissions Over Time

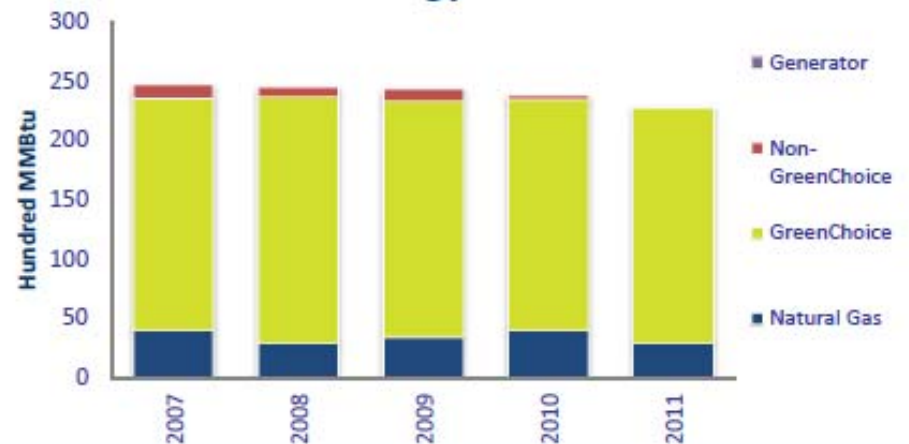
2011 Carbon Footprint

Since 2010, your Energy Use has: **decreased**
by **4%**

Since 2007, your Energy Use has: **decreased**
by **8%**

In 2011, you spent: **\$906,125**
(est.)

Energy Use

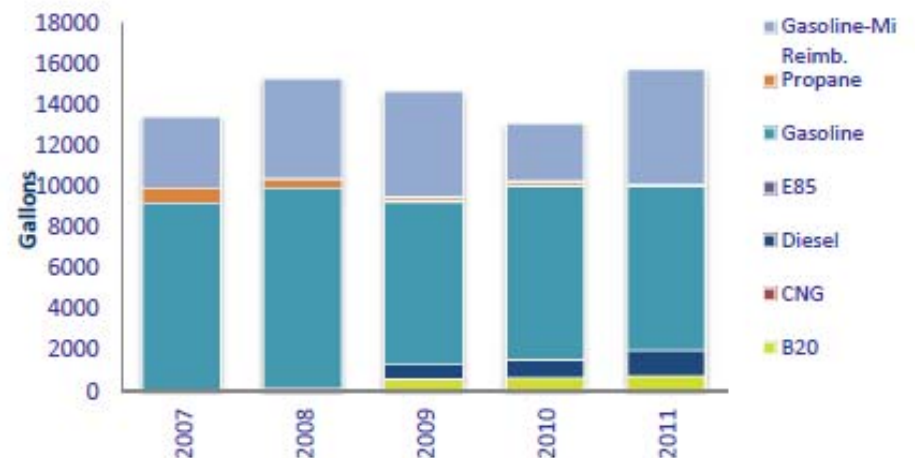


Since 2010, your MOBILE Fuel Use
has: **increased**
by **20.1%**

Since 2007, your MOBILE Fuel Use
has: **increased**
by **17%**

In 2011, you spent: **\$88,952**
(est.)

Mobile Fuel Use



Reference the
City of Austin's Fleet Carbon Dashboard for more information:
http://fltweb/carbon_dashboard/main.aspx

2011 Carbon Footprint

Since 2010, your CO2 per
Employee: **decreased**
by **22%**

You Emit: **3**
metric tons of CO2
less than
the 2011 City-wide average

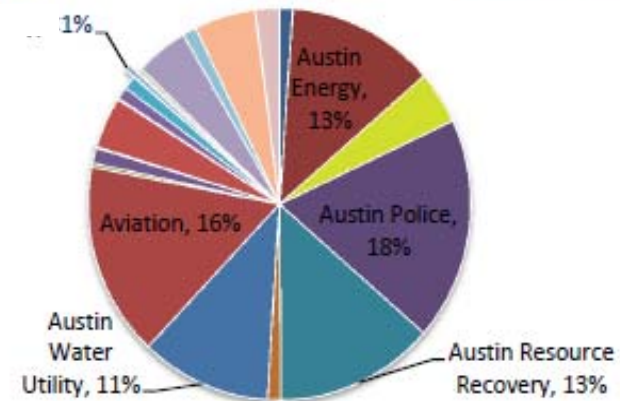
CO2 Emissions per Employee



CO2 Emissions for City Operations

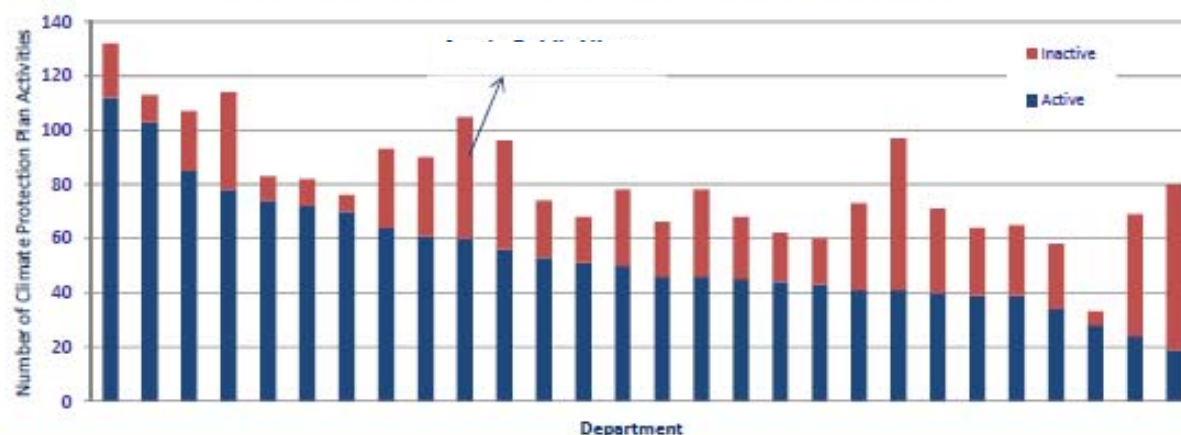
*not including Utility direct emissions

In 2011, you contributed: **<1%**
to the total greenhouse gases
emitted from City Operations*



2011 Carbon Footprint

Climate Protection Plan Activity by Department

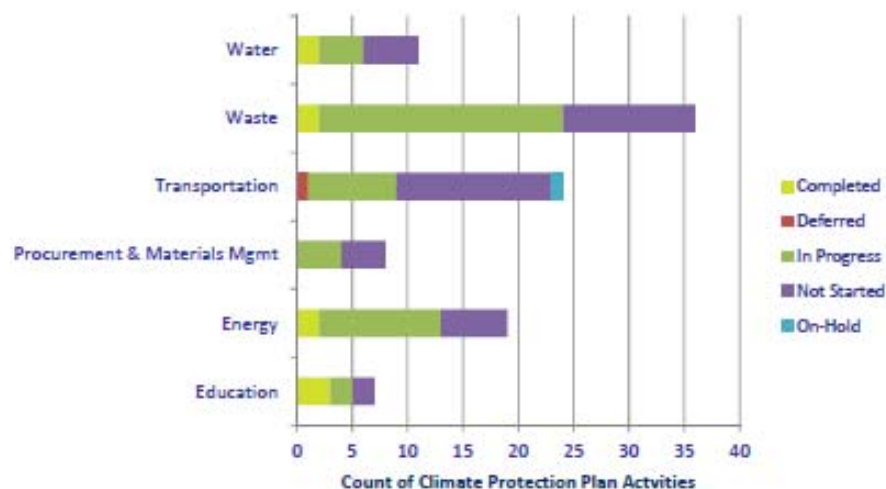


Of your Climate Protection Plan,

You have in progress, or
 completed: **60**
 Actions

Which accounts for: **57%**
 of your overall plan

Climate Protection Actions by Category and Status



RECOMMENDATIONS

- #1** Explore trip reduction, anti-idling, routing efficiency, and maximize alternative fuel usage with field vehicles.
- #2** Explore building weatherization, HVAC, and lighting efficiency upgrades in your facilities.
- #3** Continue working to implement your Climate Protection Plan.

These data, calculations, and assessment are brought to you by the Office of Sustainability. Information is collected from internal City databases such as M5, CC&B, Advantage 3, and FM Systems on an annual basis and reported back to City departments and leadership in response to Resolution 20070215-023. If you have any questions about the results or recommendations, please contact us at 974-5603.

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- Austin Green Business Leaders

2007 Climate Protection Resolution

Climate

- *5c. develop a menu of greenhouse gas reduction strategies for local implementation that citizens and organizations can fund through the purchase of "carbon offset" credits, thereby reducing their own carbon footprint;*
- *5e. promote carbon neutrality among visitors by providing mechanisms and incentives for the purchase of offset credits by travelers, conventions, tradeshow and festivals.*



What are carbon offsets?

Climate

A carbon offset is the third party verified legal claim to a **reduction in emissions** of greenhouse gases (CO_2) made in one place, **to offset an emission** made elsewhere.



Carbon reduction project...



...to offset emissions

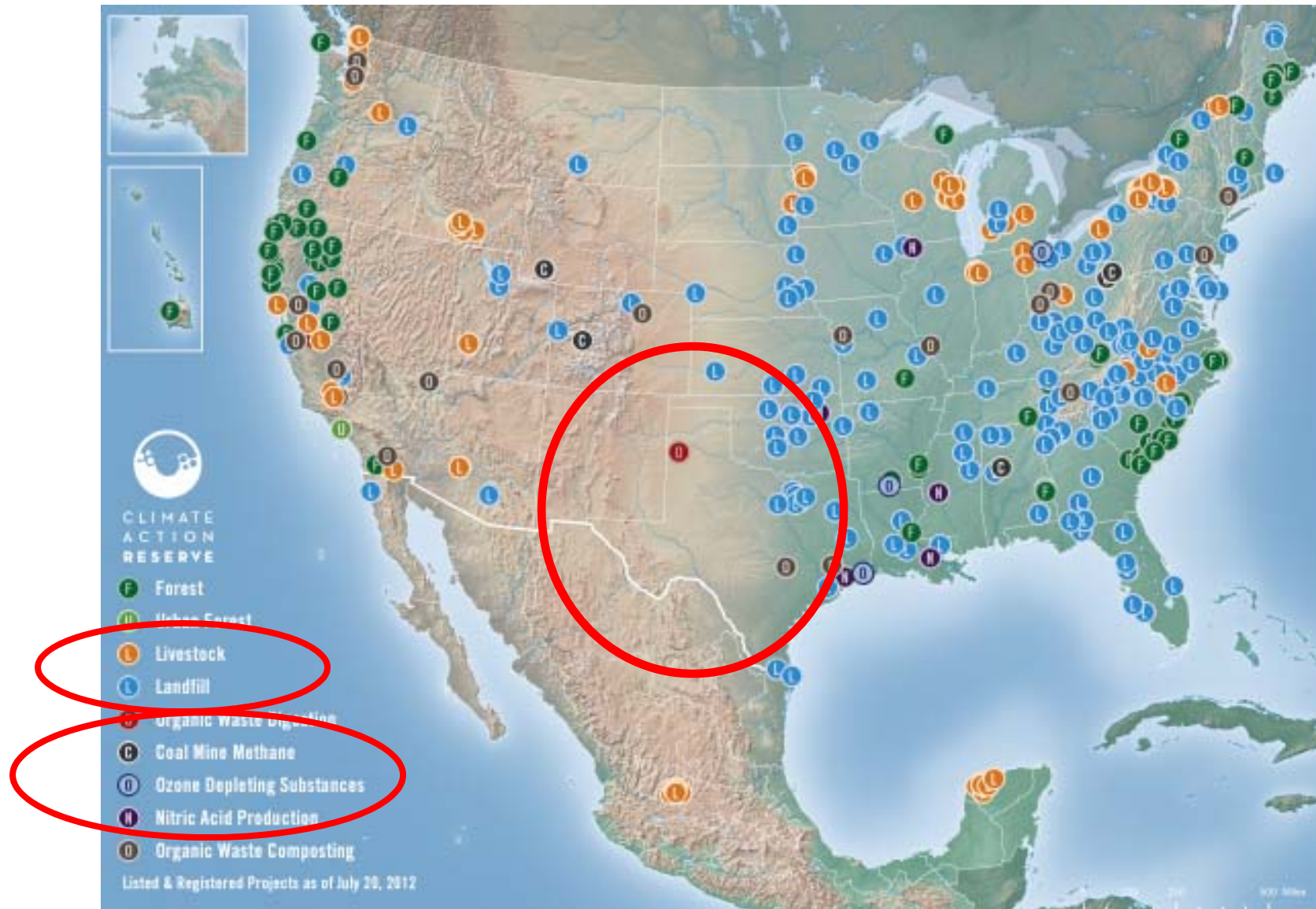
Perspective:

Average Austinite's Annual Carbon Footprint = 15 mt CO_2

Total Travis County Annual Carbon Footprint = 15 million mt CO_2

Texas Verified Emission Reductions

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2010 Local Carbon Offset Pilot

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TreeFolks

- Soil / Biomass sequestration
- Offsets: 1 mt CO₂ per year
- Timeline: 2013



Foundation Communities

- 5kW Solar PV at M-Station
- Offsets: 4 mt CO₂ per year
- Timeline: Spring 2012



Yellow Bike Project

- 11.4 kW Solar PV array
- Offsets: 8 mt CO₂ per year
- Timeline: Spring 2012

Positives

- 10+ projects applied
- All local + innovative
- Community value

Challenges

- Volume
- Demand
- 3rd Party verification

Major Events in Austin

Climate

	Annual Attendance
SXSW: Music, Film, Interactive, Eco	250,000+
C3 Presents: ACL Festival	75,000 x 3 = 225,000
ACL Live & Moody Theatre	2,700 x 90 = 243,000
Circuit of the Americas	750,000+
TOTAL	>1.5 Million

Founding Partners

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Austin Climate Leadership



Live Music Capital



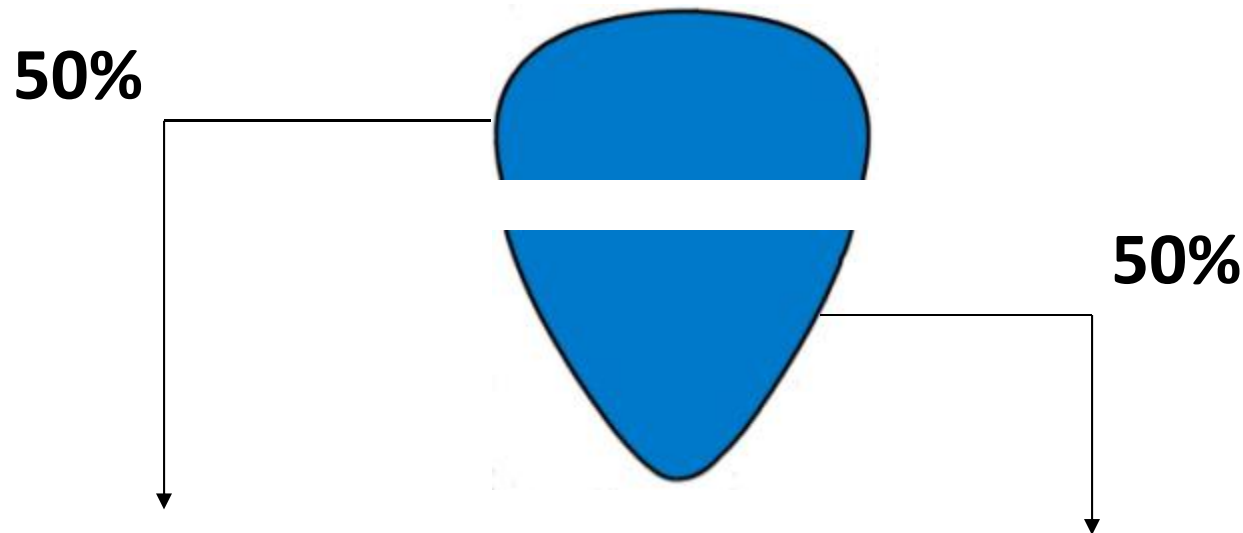
Photos by Jay Janner

Local Sustainability Benefits



PICC Purchase with Ticket

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Verified Projects in Texas

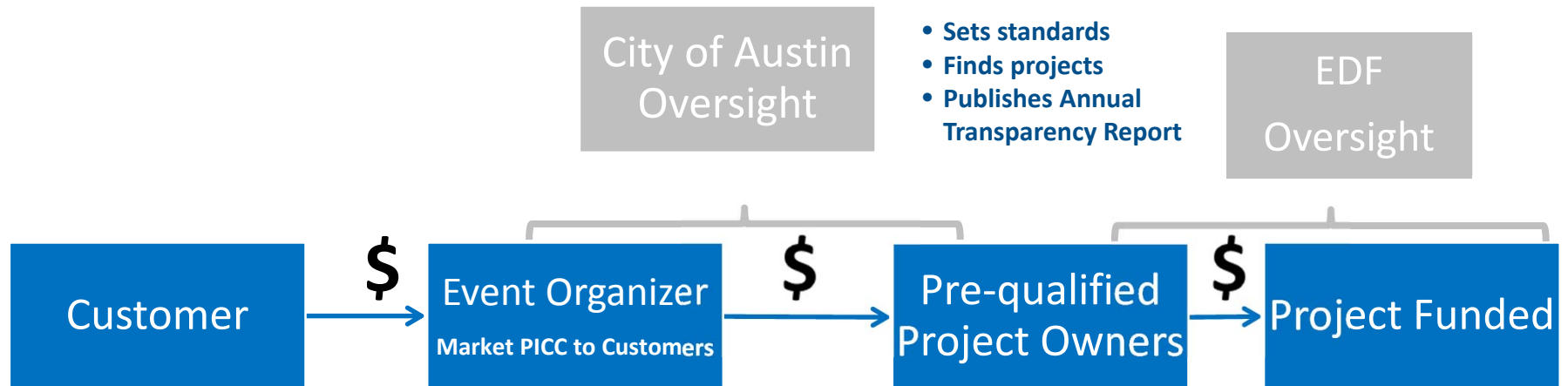
- Organic Waste Digestion
- Organic Waste Composting
- Landfill Methane Destruction
- Nitric Acid N₂O Reduction
- Renewable Energy

Sustainability Projects in Austin

- Urban forestry
- Solar PV + weatherization
- Composting
- Bike-sharing
- Community gardens

Proposed Model

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Potential Impact of 1 million PICCs sold at \$1 each

\$500k - Verified Emission Reductions
@ \$10 / ton
= 50,000 mt CO₂ offset

\$500k - Sustainability Projects in Austin
@ \$200 / ton
= 2,500 mt CO₂ offset
+ Water, food, air benefits

Timeline

Climate

2012

- **Finalize Program with Founding Event Organizers**
 - ✓ Environmental review & project standards
 - ✓ Pricing and event specifics
 - ✓ Marketing and branding

2013

- **City RFI for potential projects**
- **Projects reviewed, selected and funded**
- **PICC funded through events**

2014

- **Projects implemented, outcomes occur**
- **1st PICC transparency report**
- **Make program available to other event organizers**

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What's in the scorecard?



Results



- **Progress Since March 27th**
 - 200+ new businesses registered
 - 54 businesses recognized
- **Recognized Business Stats**
 - 2/3 tenant, 1/3 owner
 - 2,800+ actions documented
 - Representation:
 - Over 4,000,000 ft² of business space
 - Over 1,000 employees in participating business space

New Members





**Zoe says
Thank you!**

I'll be back in
February