Austin Climate Protection Data Management and Reporting



December 7, 2011

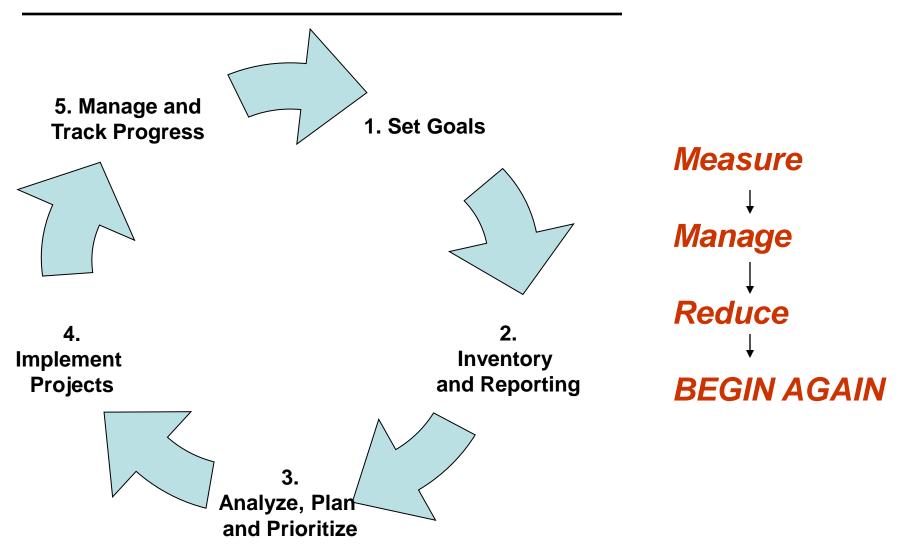
Outline



- Climate Protection Program Overview
- What we report to who and when
- How we collect, calculate, and report
- Lessons Learned
- The Future of Reporting

Our Process





2007 City Council Resolution





Community Plan



Utility Plan





Go Neutral Plan



Homes and Buildings Plan



To whom?



- Stakeholders
 - The Public
 - City Council
 - Boards and Commissions
 - City Manager's Office
 - Department Directors
 - Departmental Green Teams

What do we report?

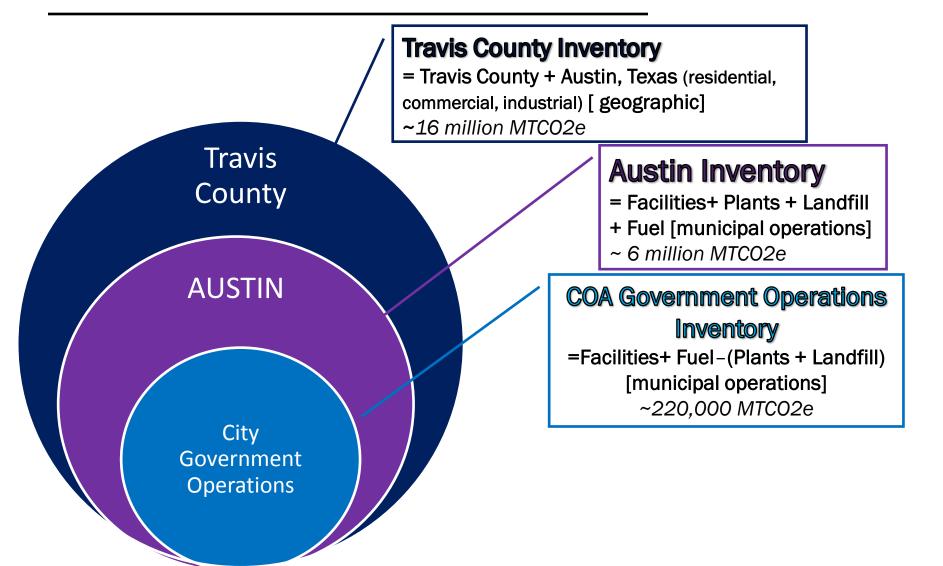


- Annual Carbon Footprint
 - Total + Trends
 - Vehicle Fuels
 - Electricity
 - Stationary Combustion (diesel / natural gas)
 - Water
 - Waste
 - Intensity / Efficiency Metric
 - Per employee
 - Per service delivery
 - Per square foot

- Action Implementation
 - Project and Type
 - General Info
 - Status of each action
 - Barriers
 - Schedule
 - Costs
 - Benefits

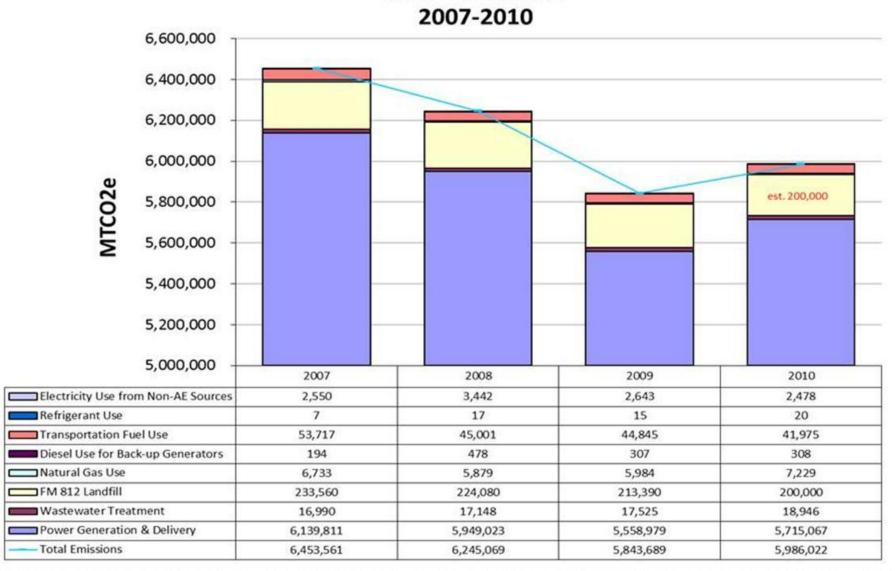
Inventory Boundaries





City of Austin Municipal GHG Emissions Summary

The City's municipal operations greenhouse gas emissions directly from the point of production

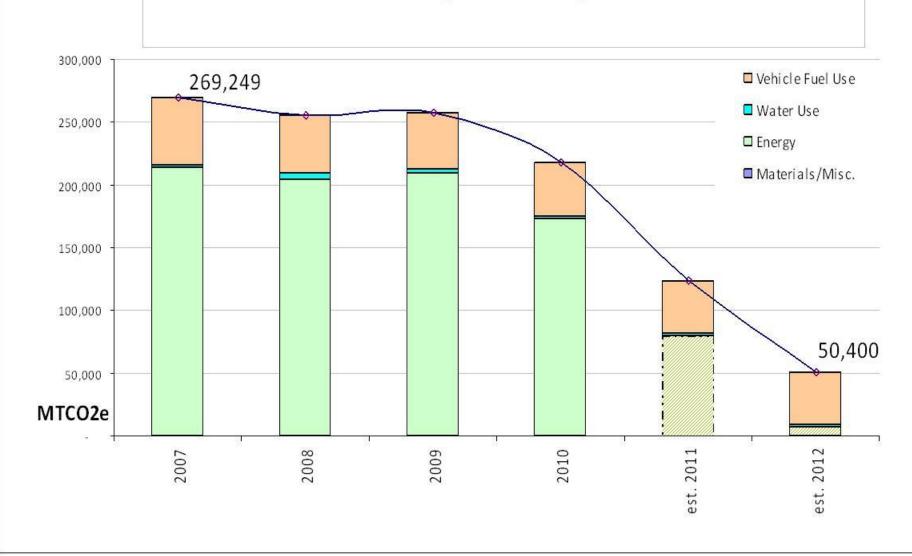


City of Austin Government Operations Consumption

The City's municipal operations greenhouse gas emissions indirectly from the point of consumption

2007-2012 Carbon Footprint

Electricity 100% GreenChoice by 2012



SharePoint Data Analysis



Investment Savings

Project Status	Capital (\$)	Staff (hrs)	Savings (\$)	GHG (mtCO2)	Water (gal)	Electricity (MWh)	Waste Divert (tons)
Completed	\$900	100	\$14,000	91	0	175	0
In Progress	\$240,000	116	\$145,000	1748	35 Mg	3,600	334,612
Deferred	\$50,750	320	\$3,000	2	0	0	0
TOTAL	\$291,650	536	\$162,000	1841	35 Mg	3,775	334,612

Reporting Process



- Data Call February / March
 - Emails / Phone Calls
- Data Scrubbing QA/QC March / April
 - Manual / time intensive
- Calculations April / May
 - MS Excel
 - MS Sharepoint web database
- Verification June / July
 - 3rd Party
- Communications July / August
 - Reports, PPTs

This effort = $\frac{1}{2}$ - 1 FTE

The Climate Registry -Local Government Operations Protocol v1.1

Data from where?



- Internal
 - Electricity
 - Austin Energy CIS Database
 - Vehicle Fuel and Mileage
 - Fleet Services M5 Database
 - Financial Services -Advantage 3 Database
 - Refrigerants
 - Building Services, various facilities managers
 - Water
 - Austin Water CIS Database
 - Waste
 - Solid Waste Services Department
 - Other
 - HR, Building Services

External

- Natural Gas
 - Texas Gas Service Database
- Community Electricity
 - Perdenales and Bluebonnet Electric
- Transportation
 - Texas Transportation Institute

Lessons Learned



- Develop an inventory management plan
 - Sets boundaries
 - Reference and guide for continuity
 - Be decisive and document assumptions
- Build relationships with data owners
- Climate Registry + Verification is valuable
- Leadership buy-in is ESSENTIAL

The Future



- NO MORE SPREADSHEETS
 - Many competing solutions
 - None are cheap or easy
 - Investment that will pay off in the future
- Dashboards
 - Timely Feedback
 - Metrics and Trends
 - Efficiency
- More focus on \$ costs / benefits

