



Thurston Climate Action Team

Briefing, October 2014

Community-wide Greenhouse Gas Emissions Inventory
for Thurston County



What's the Problem?





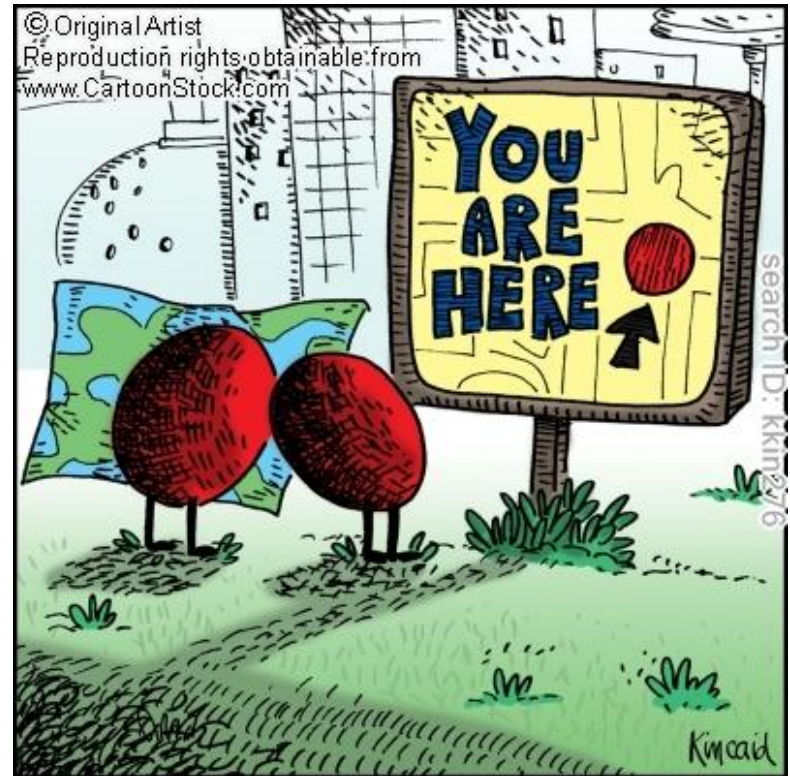
What's the Opportunity?





How to cut our GHGs?

- We need to know where we are, and where we were, to plan effectively...
- First step: GHG inventory (where we are)





Approach

- We followed the U.S. Protocol for Community-wide Greenhouse Gas Emissions Inventories
 - ICLEI – Local Governments for Sustainability USA
- Includes 2010 emissions from:
 - Built Environment
 - Transportation
 - Solid Waste
 - Wastewater Treatment
 - Agriculture/Livestock
- Furthers several efforts by local jurisdictions



Sources of Data

- Puget Sound Energy
 - Electricity, natural gas use (Built Environment)
- Thurston Regional Planning Council
 - Vehicle Miles Traveled (On-road vehicles)
- Thurston County Solid Waste
 - Solid waste
- LOTT
 - Wastewater



Results by Activity

(Metric Tons of Carbon Dioxide Equivalent)

Emission Source	MTCDE	%
Built Environment	1,444,406	52%
Local, on-Road Vehicles	1,221,057	45%
Solid Waste	54,166	2%
Agriculture/Livestock	21,289	1%
Wastewater Treatment	11,884	0%
Total:	2,752,803	100%
Per Capita:	10.91	

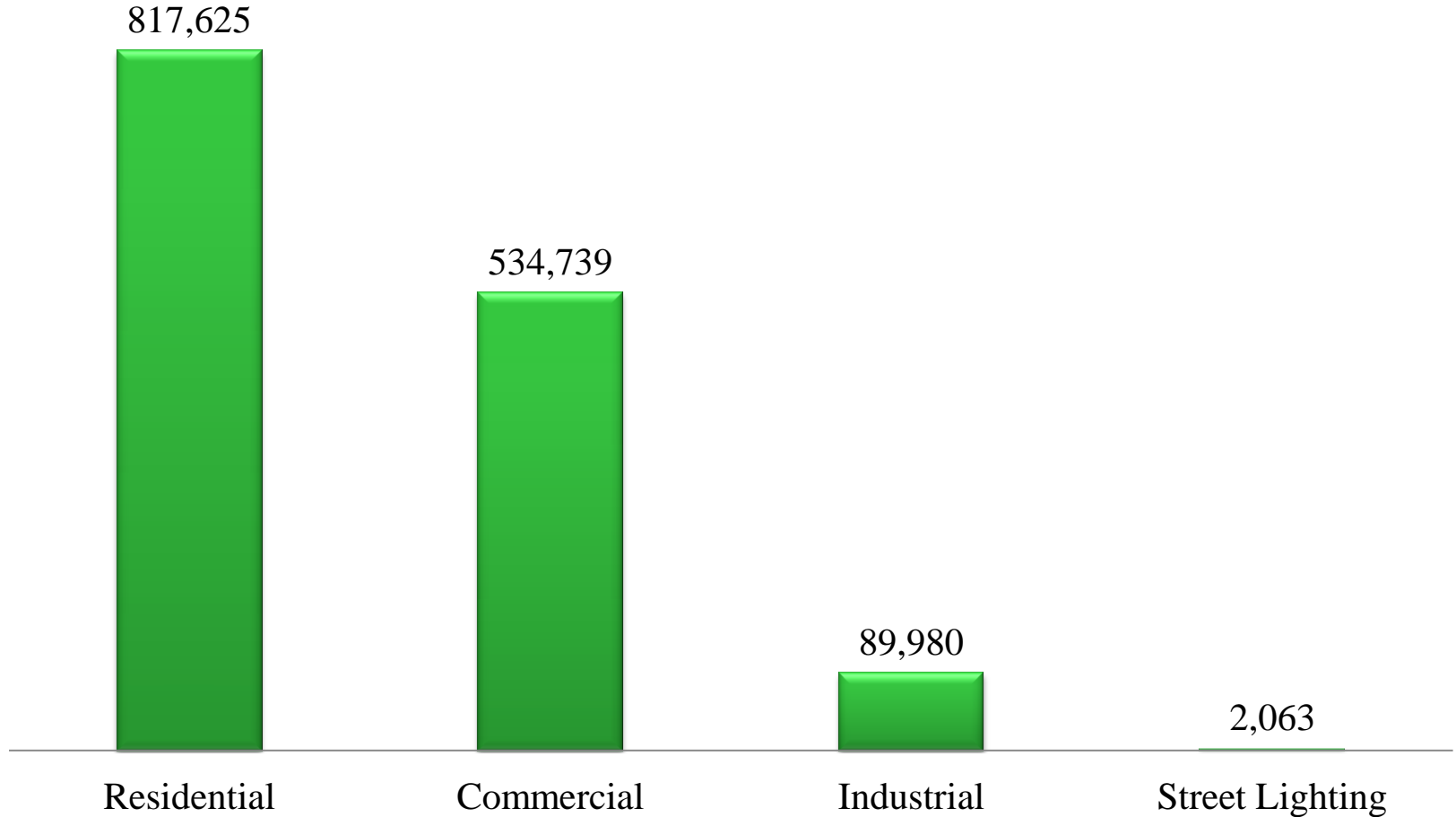


Emissions by Jurisdiction

Jurisdiction	Total MTCDE	MTCDE /Person
Thurston County	2,752,803	10.91
Unincorporated Thurston County	1,443,200	10.68
Bucoda	2,047	3.64
Lacey	388,551	9.17
Olympia	560,671	12.06
Rainier	8,734	4.87
Tenino	12,852	7.58
Tumwater	287,069	16.53
Yelm	49,679	7.25

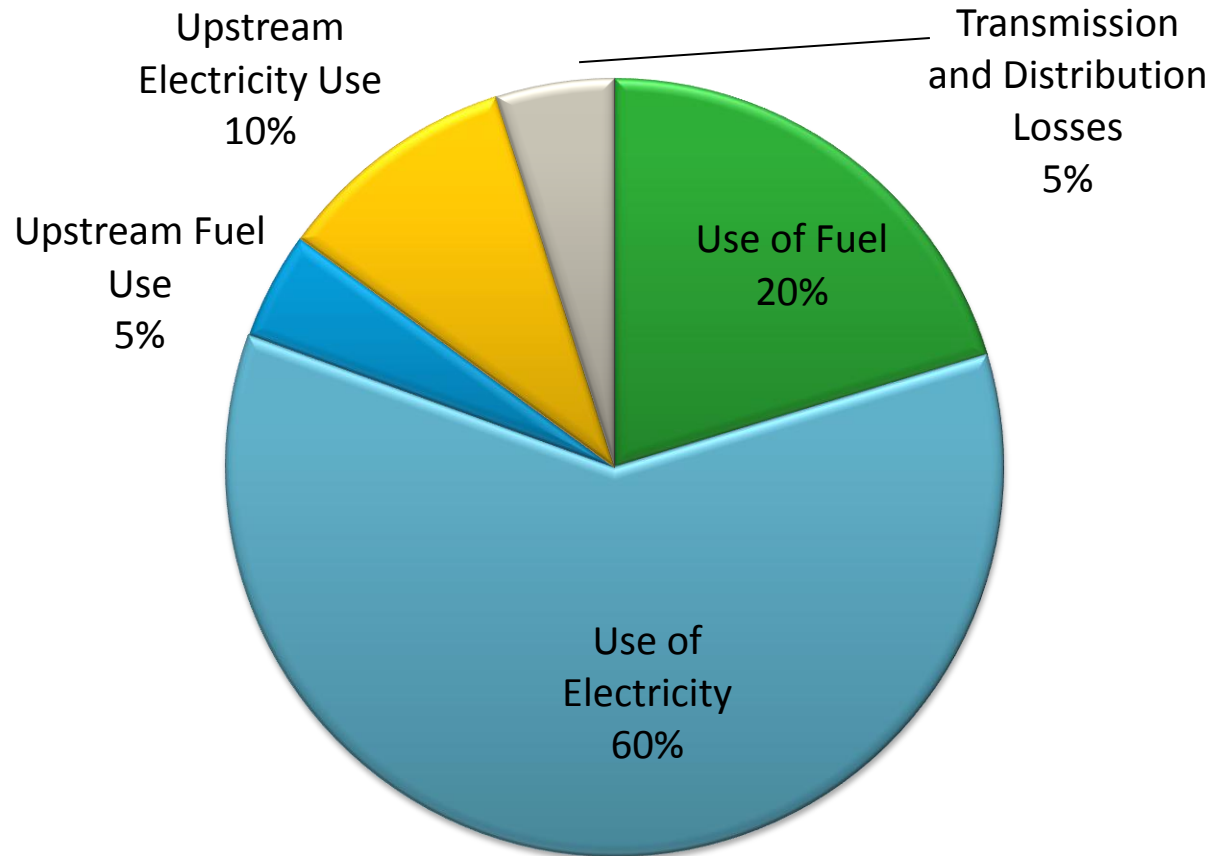


County GHG Emissions: Building Type



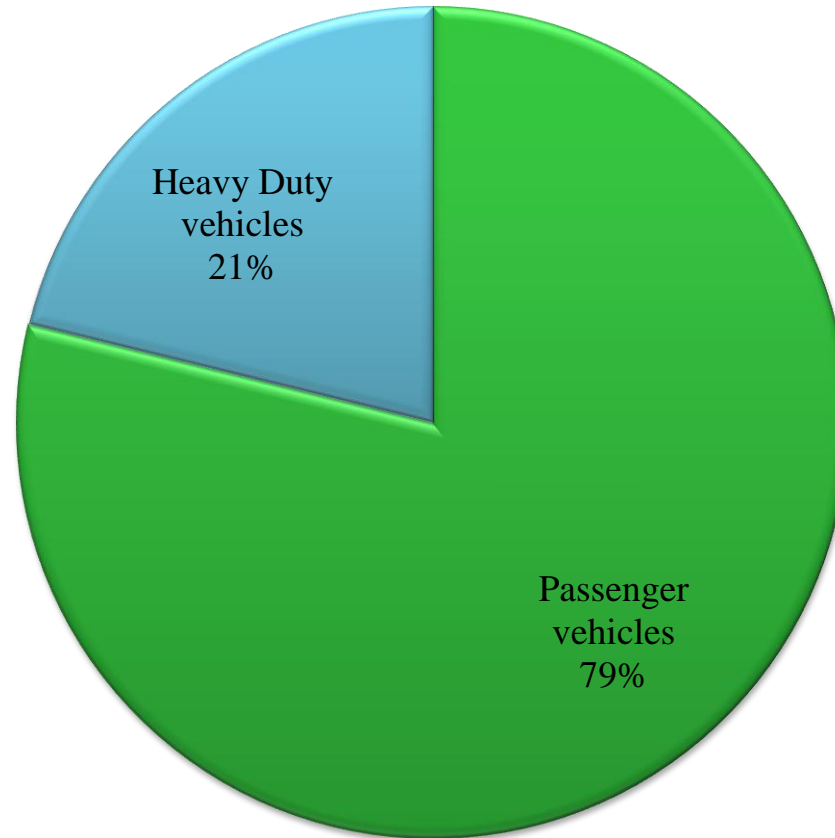


County Building GHG Emissions: Source





County GHG Emissions: Transportation





For more information:

View the full report at TCAT web site:

<http://www.olywa.us/ThurstonClimateAction/>

Go to “Resources.”



Develop a Climate Action Plan

- Collaboration, broad participation
- Phases:
 - Continue local efforts
 - High level: targets and strategies--now
 - Detailed policies, projects—next 1-2 years
- Monitor progress (annual inventory)





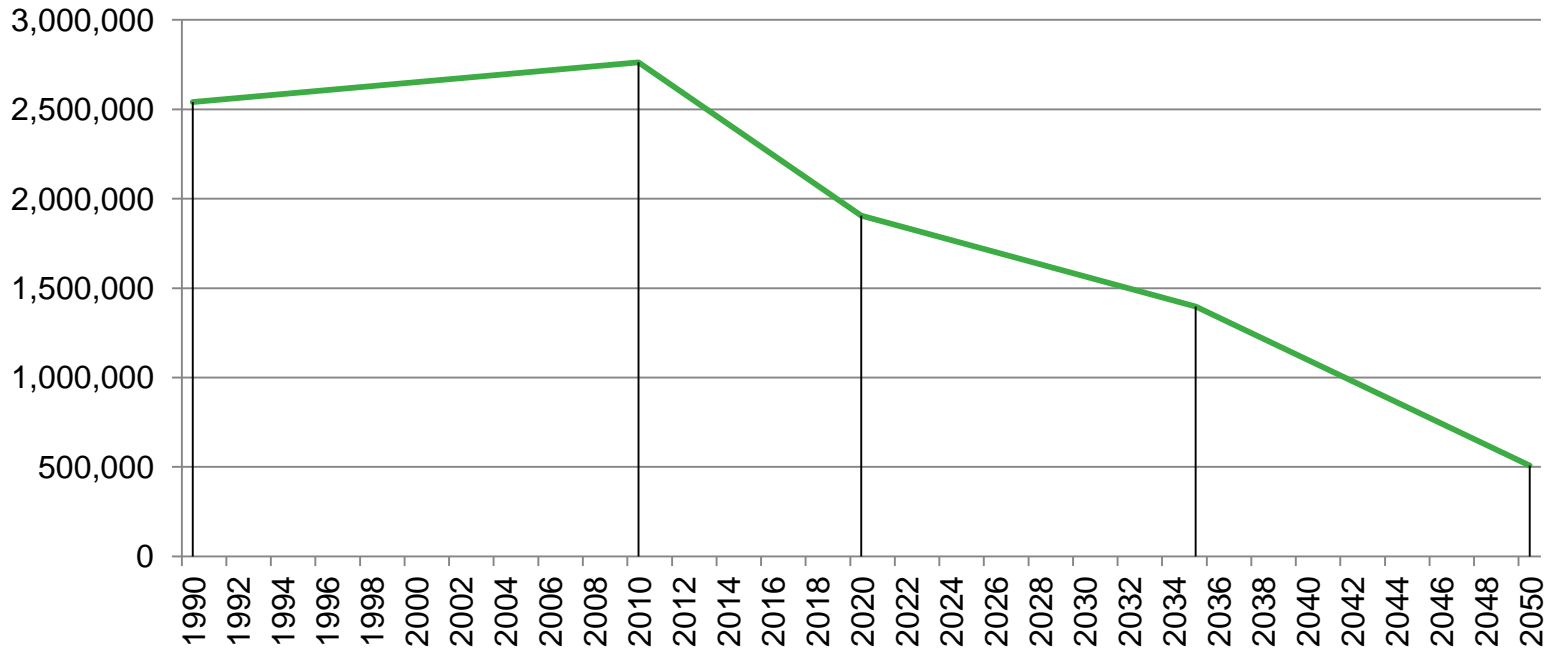
Setting GHG Targets

- Sustainable Thurston recommended targets
 - 25% reduction from 1990 levels by 2020
 - 45% reduction from 1990 levels by 2035
 - 80% reduction from 1990 levels by 2050



Thurston County Targets

Thurston Co GHG MTCDE



	1990	2010	2020	2035	2050
— Thurston Co GHG MTCDE	2,540,511	2,761,800	1,905,383	1,397,281	508,102



Possible / Likely Strategies

- Energy efficiency:
 - Commercial buildings
 - Rental homes, apartments
- Reduce PSE coal use
- Promote state, federal climate policies, funding
- Solutions tailored to individual cities





Next Steps - TCAT

- Conduct preliminary analysis
 - Further analysis of 2010 data
 - Experience of other cities
 - CLEW research
 - Funding sources
- Complete GHG inventory for 2011
- Build toward regional Climate Action Plan





Next Steps – Cities, County

- Pass resolution accepting study
- Continue positive steps
 - Support Sustainable Thurston goals and targets
 - Continue work on current efforts
 - Get involved in climate action planning
 - Incorporate climate into all local plans and decisions





Let's Work Together!

