

Net-Zero Community Climate Working Meeting

October 1, 2014

Schedule

1:00-1:15 - Introductions and Warm-up

1:15-1:30 - Background Presentation

1:30-2:20 - Breakout 1 (Cross-TAGs)

2:20-2:40 - Break

2:40-3:30 - Breakout 2 (TAGs)

3:30-4:00 - Report to the Group

4:00-4:30 – Cleanup and Mingle

Topics to Cover

- Background and where are we now?
- Emission Calculations
 - Sources
 - Planning to 2050
- Breakouts
- Next Steps

Topics to Cover

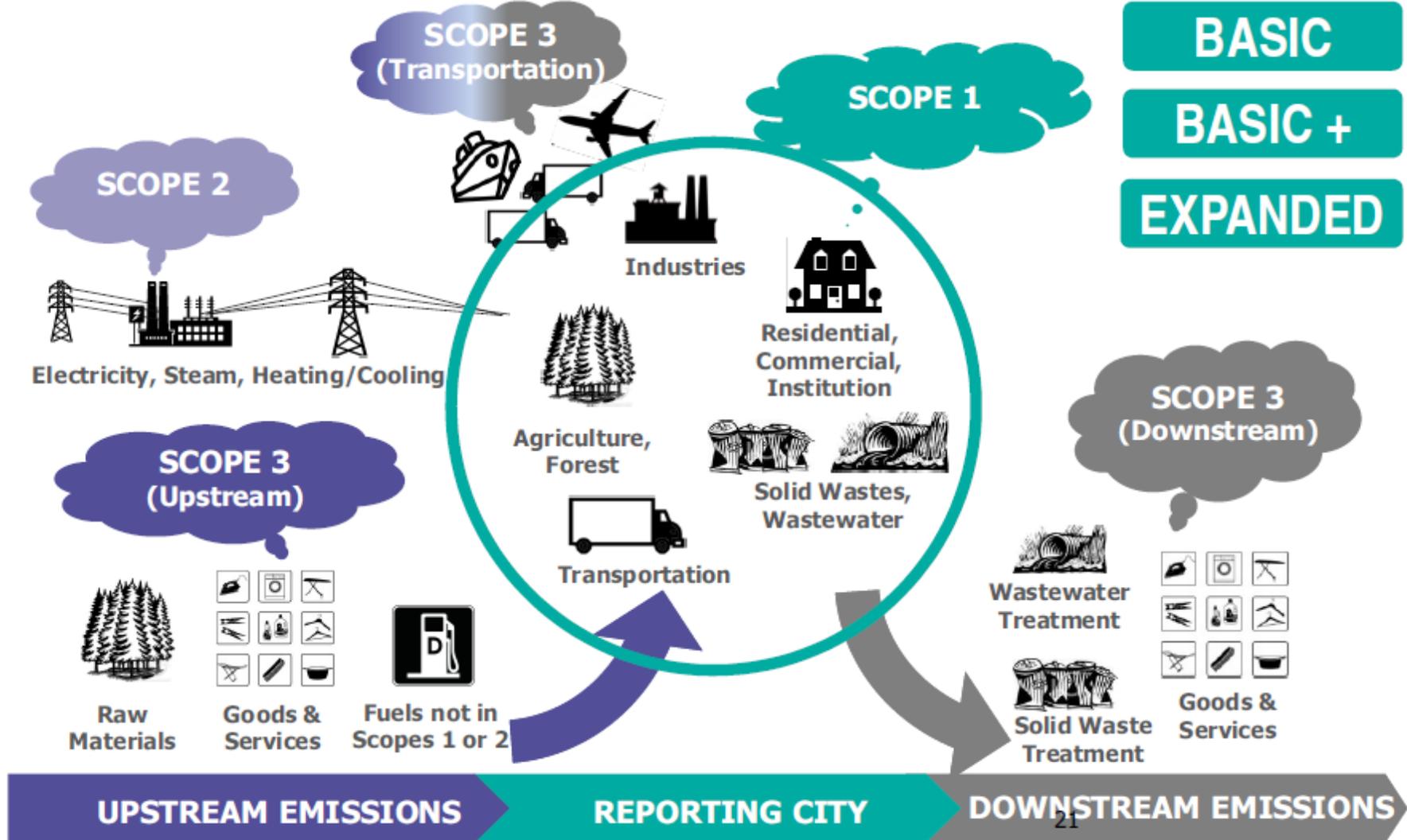
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Protocol

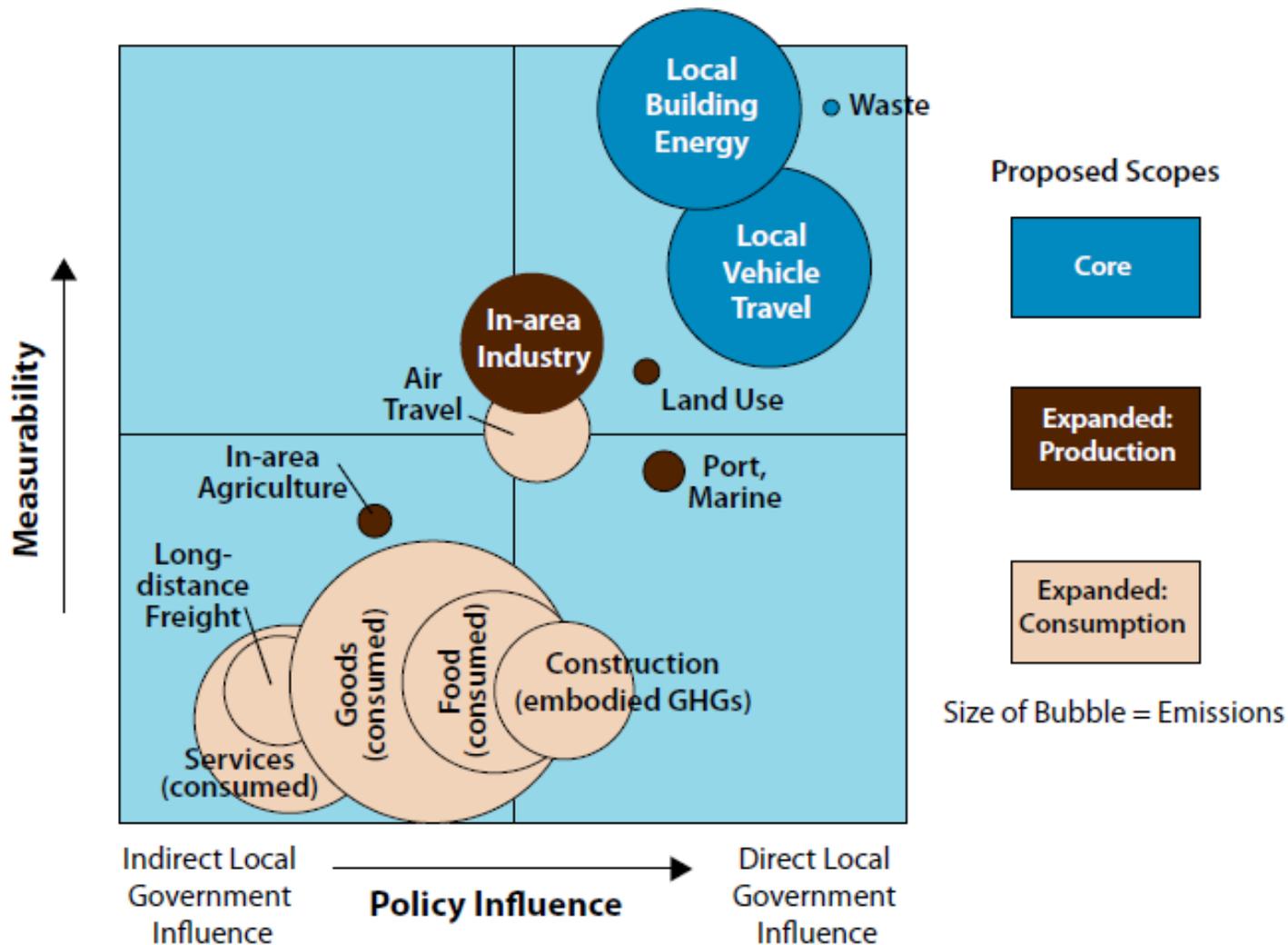
- Developed by ICLEI (Local Governments for Sustainability)
- ICLEI is the world's leading association of cities and local governments dedicated to sustainable development
- Protocol Released October 2012
- Designed to guide *U.S. local governments* to account for and report on community wide greenhouse gas emissions
- One other option – World Resources Institute international accounting tool



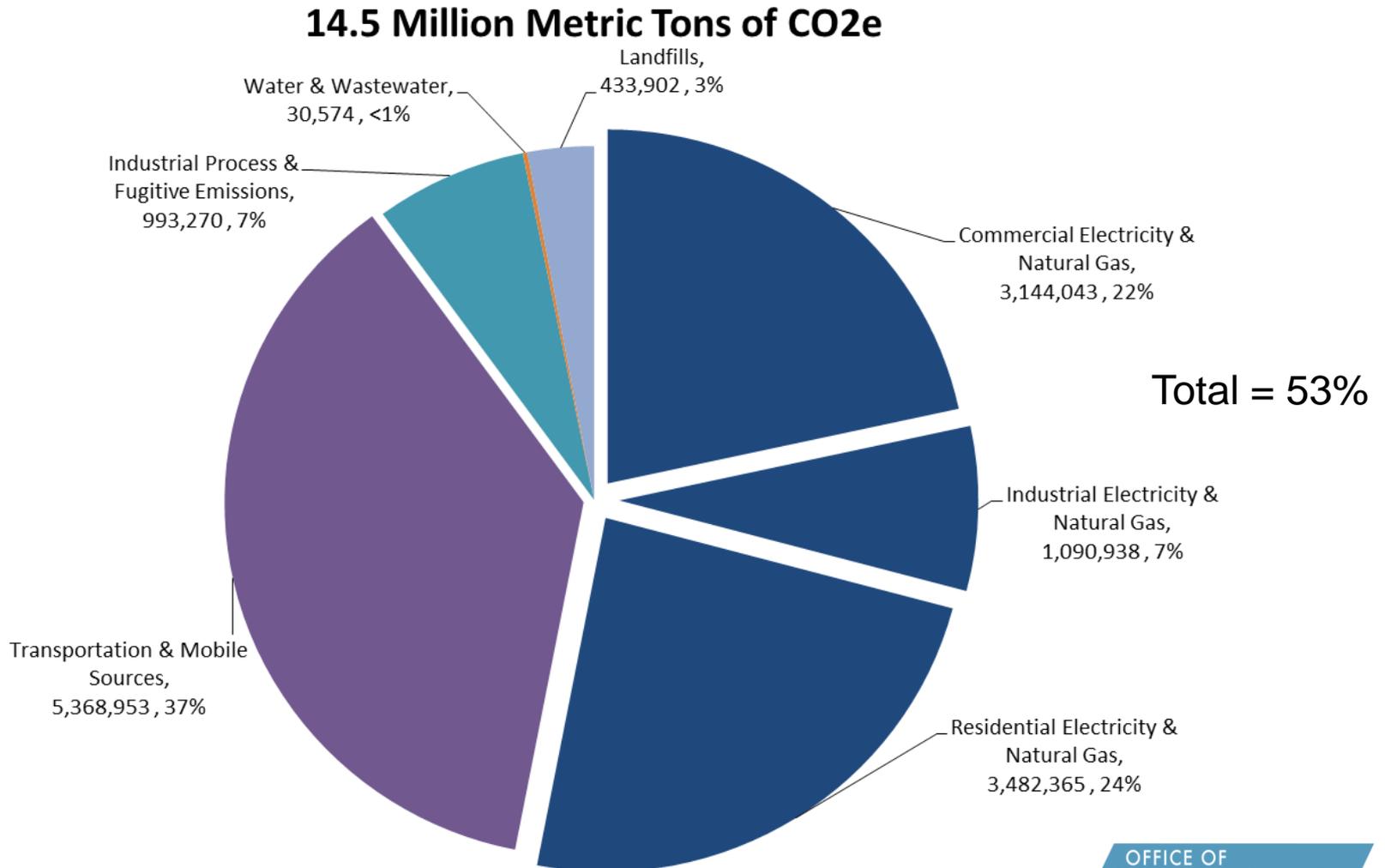
Illustration of Reporting Framework



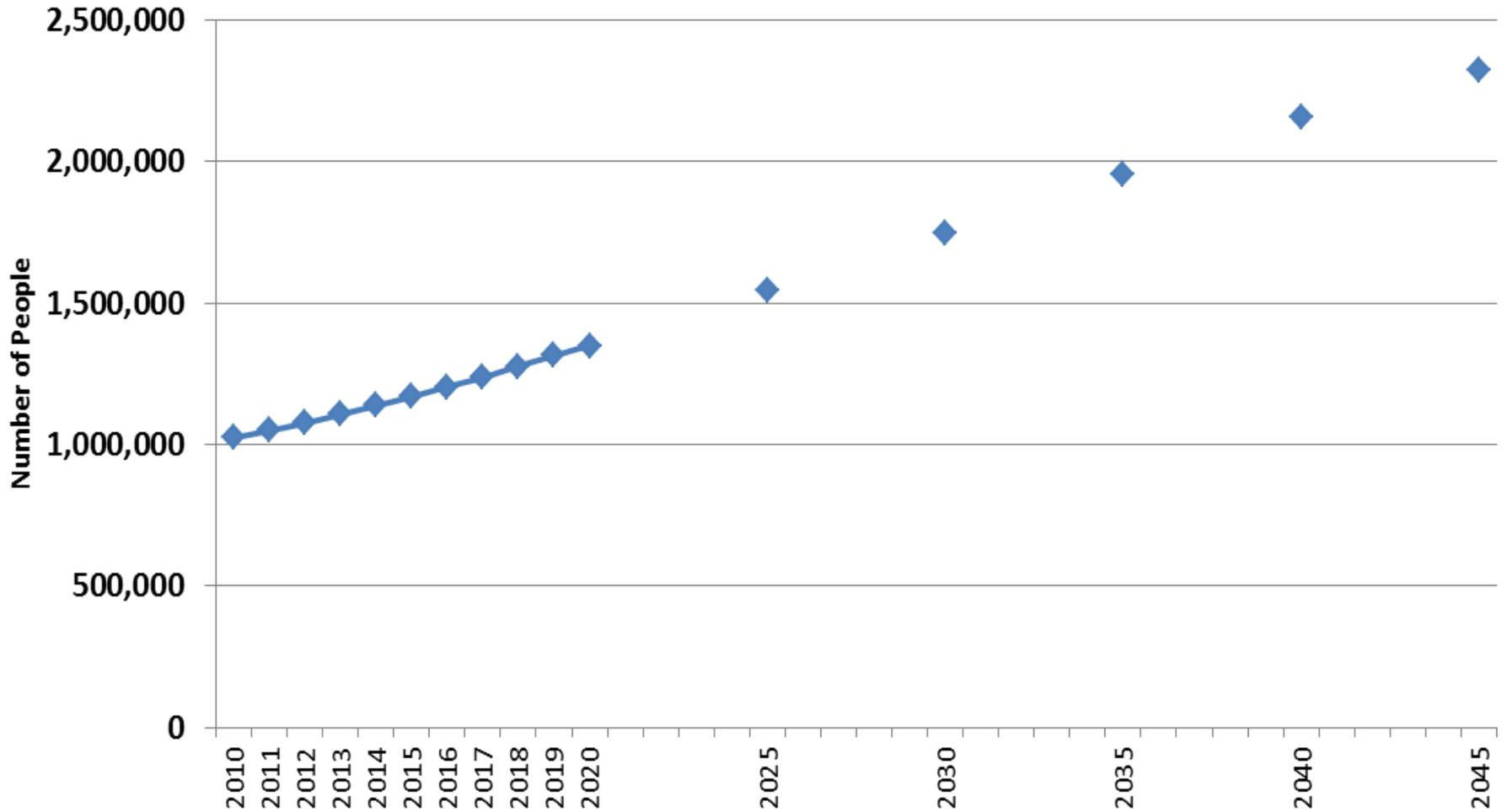
GHG measurability vs influence



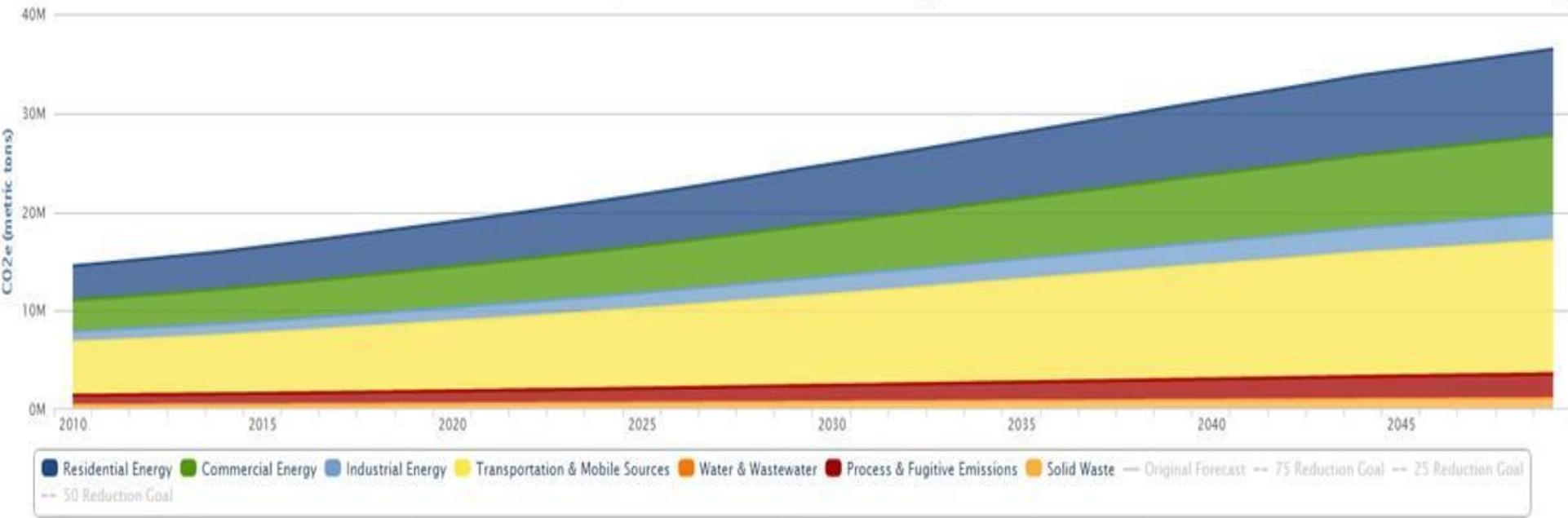
2010 Estimated Travis County GHG Inventory



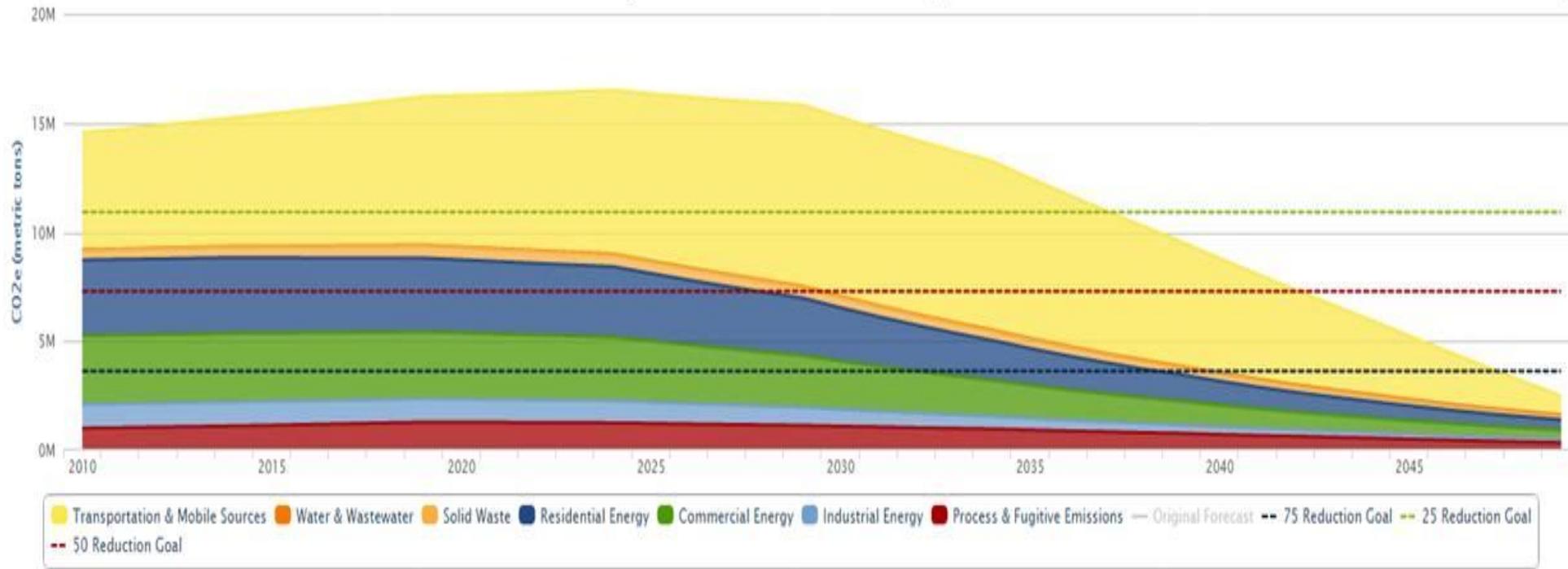
Population Projections for Travis County



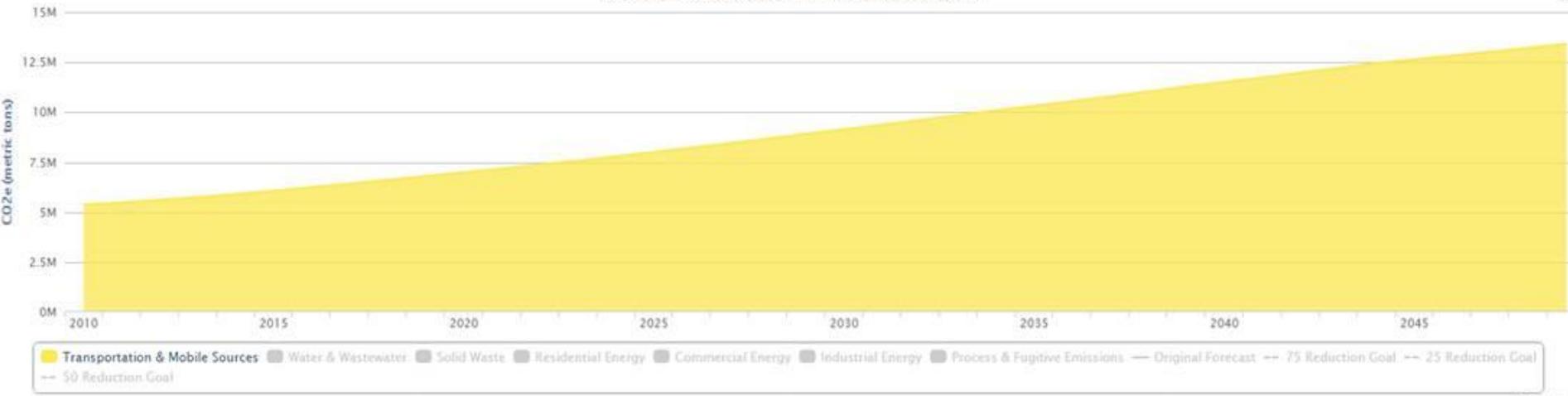
Projected CO2e Values With Reductions Applied



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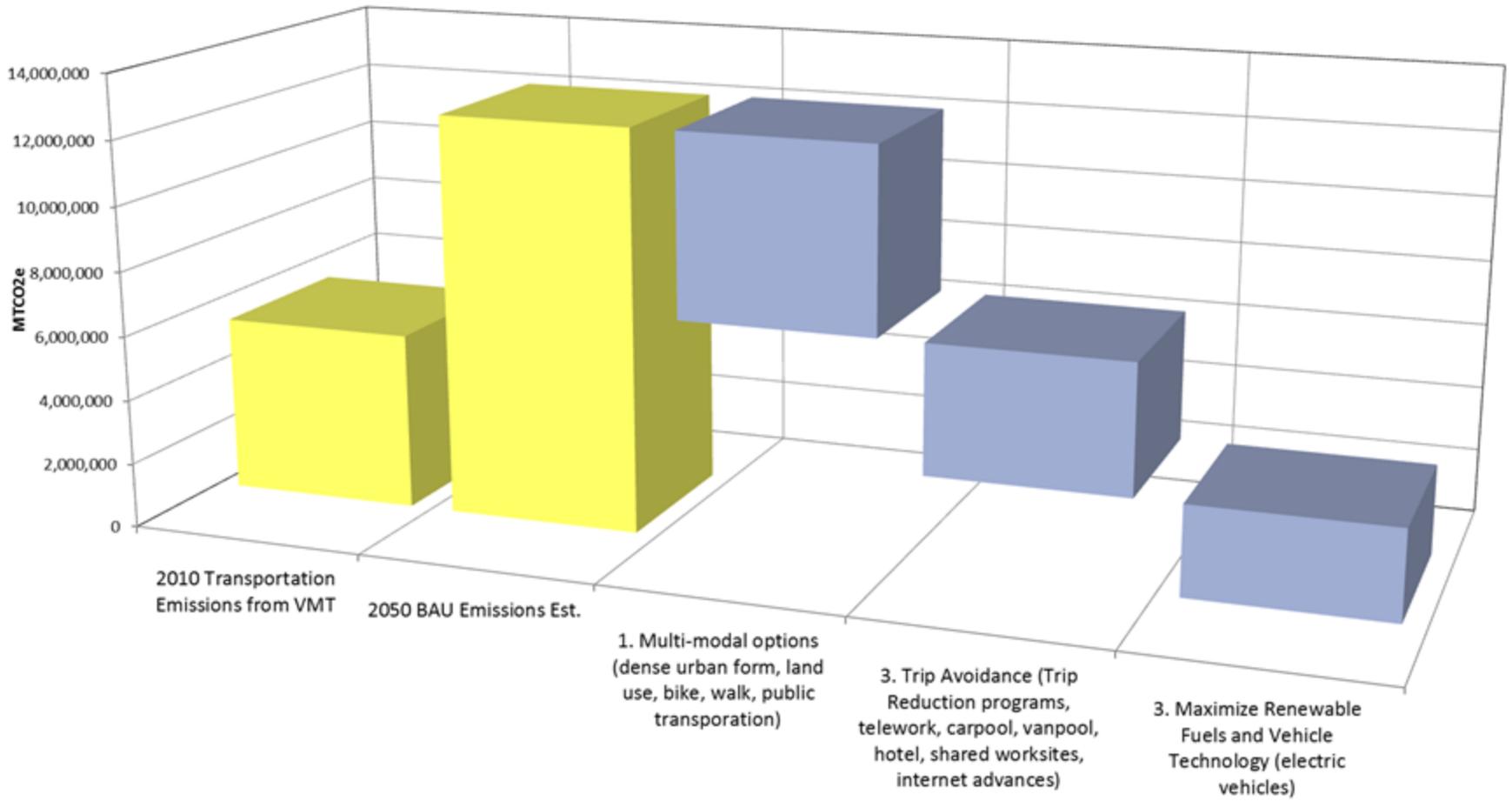
Highcharts.com

Add a new reduction measure:

Choose a reduction measure Add

| Measure Name | Actions | Start Year | End Year | Active |
|--|---|------------|----------|--------------------------|
| Maximize Renewable Fuels and Vehicle Technology | Edit Remove | 2020 | 2050 | <input type="checkbox"/> |
| Trip Avoidance (Trip Reduction programs, telework, carpool, vanpool, hotel, shared worksites, internet advances) | Edit Remove | 2020 | 2050 | <input type="checkbox"/> |
| Multi-modal options (dense urban form, land use, bike, walk, public transportation) | Edit Remove | 2030 | 2050 | <input type="checkbox"/> |
| Mass Transit Option | Edit Remove | 2035 | 2050 | <input type="checkbox"/> |

Estimated Greenhouse Gas Emissions Reduced by Transportation Emission Reduction Strategies (MTCO₂e)



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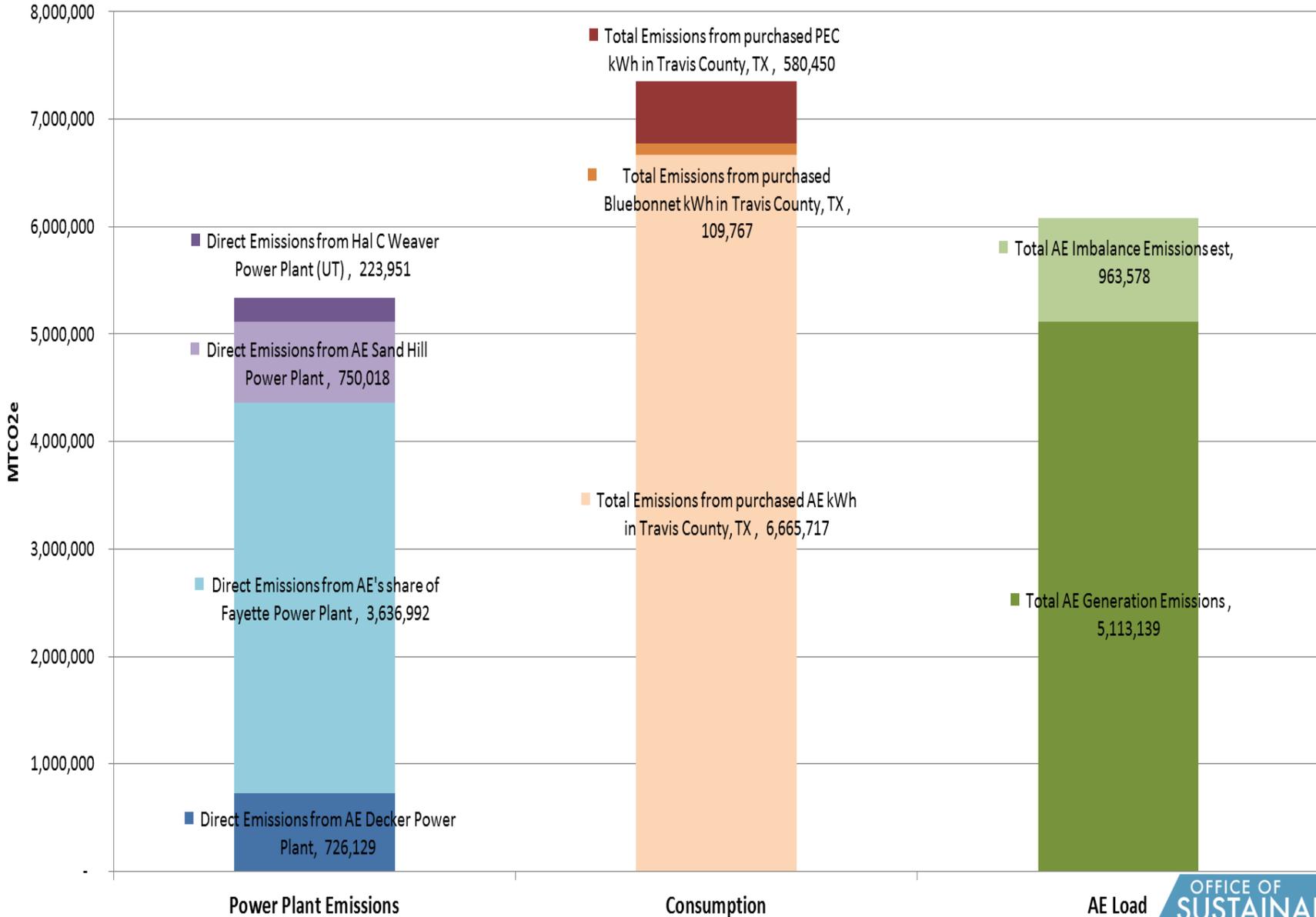
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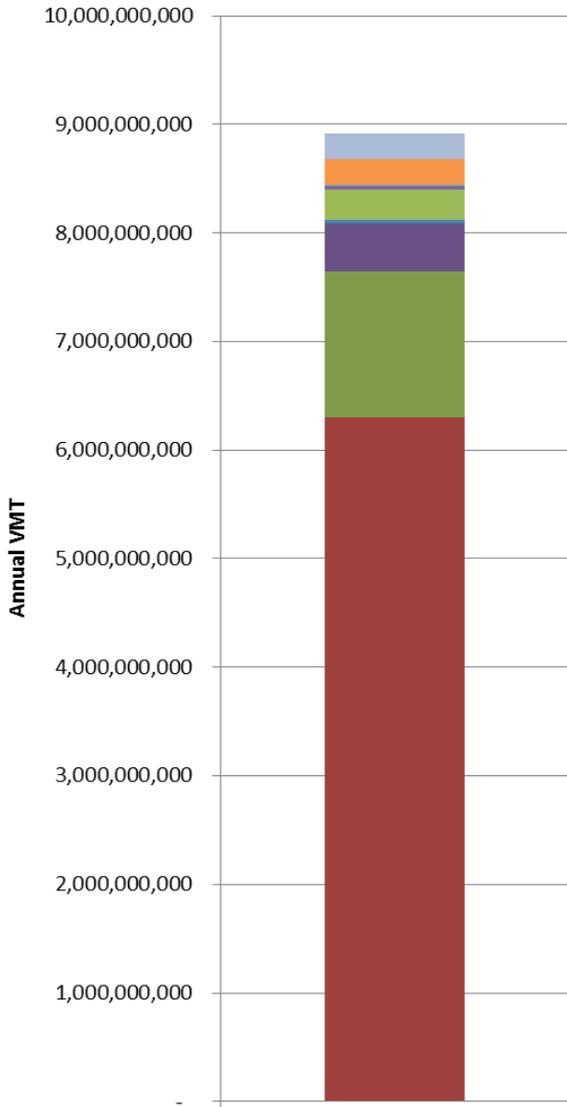
“Whether you think you can
or think you can’t
you’re right.”
- Henry Ford

EXTRA SLIDES

2010 Electricity Carbon Emissions in MTCO₂e Travis County, TX

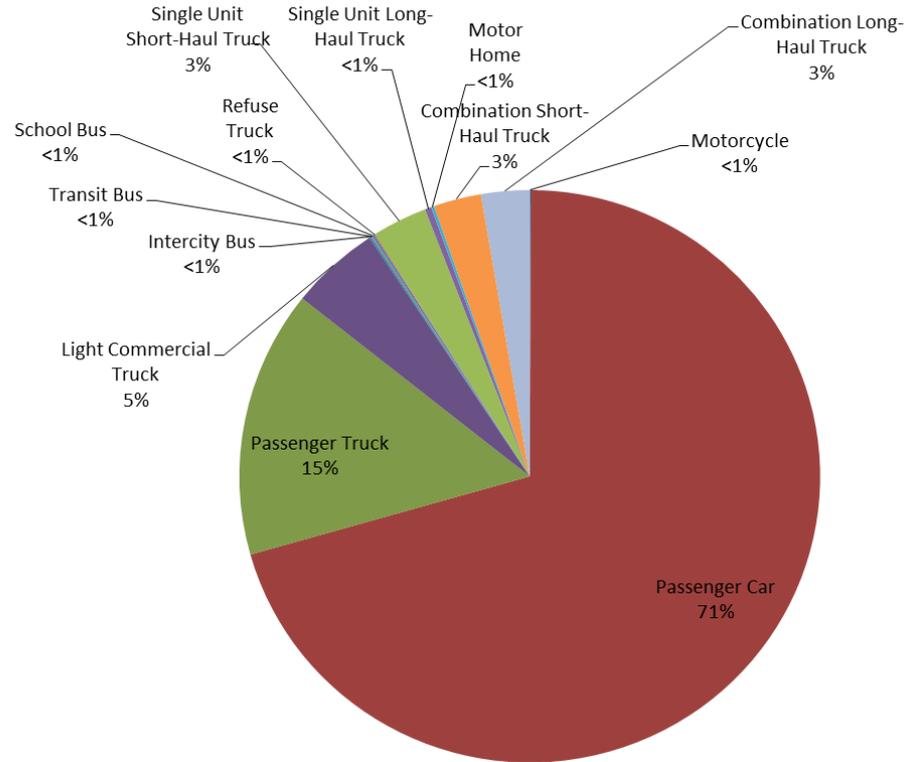


Vehicle Mix



2010

- Combination Long-Haul Truck
- Combination Short-Haul Truck
- Motor Home
- Single Unit Long-Haul Truck
- Single Unit Short-Haul Truck
- Refuse Truck
- School Bus
- Transit Bus
- Intercity Bus
- Light Commercial Truck
- Passenger Truck
- Passenger Car
- Motorcycle



Industrial Process

| Source | 2011 | 2012 |
|-------------------|----------------------------------|----------------------------------|
| Freescale EB site | 62,897 mtCO ₂ e | 58,107 mtCO ₂ e |
| Freescale OH site | 53,809 mtCO ₂ e | 59,528 mtCO ₂ e |
| Samsung Austin | 406,859 mtCO ₂ e | 322,024 mtCO ₂ e |
| Spancion | 92,188 mtCO ₂ e | 93,050 mtCO ₂ e |
| Austin White Lime | 271,216 mtCO ₂ e | 301,907 mtCO ₂ e |
| TOTAL | 886,969 mtCO₂e | 834,616 mtCO₂e |

Source: EPA Facility Level Information on Greenhouse Gases Tool (FLIGHT)
<http://ghgdata.epa.gov/ghgp/main.do>

Geographic v. Consumption

Figure 1. King County 2008 GHG Emissions by Sector,

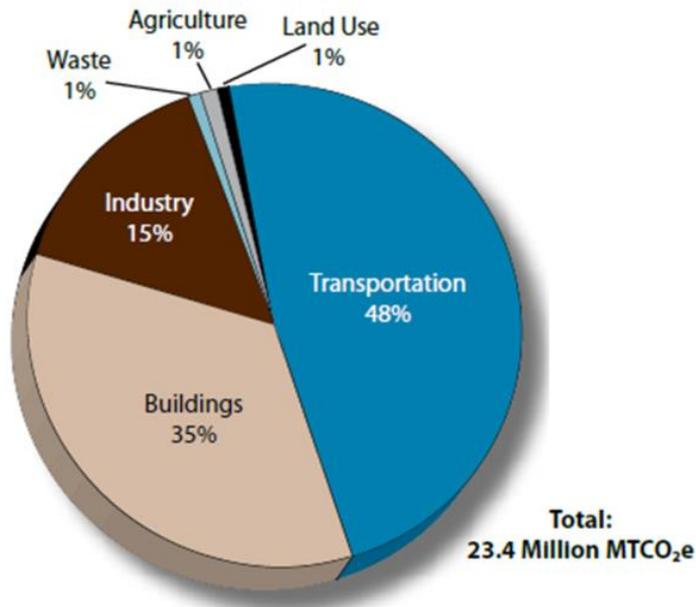
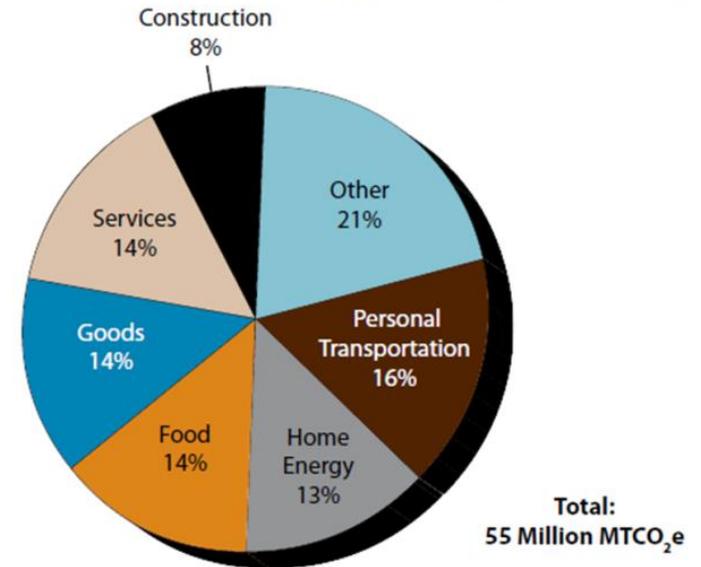


Figure 4. King County 2008 GHG Emissions by Category of Consumption, Consumpt



Landfills and Wastewater

| Source | 2010 | 2011 | 2012 |
|---------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Texas Disposal Systems Landfill | 269,661 mtCO ₂ e | 293,543 mtCO ₂ e | 319,286 mtCO ₂ e |
| Sunset Farms Landfill | 94,565 mtCO ₂ e | 78,712 mtCO ₂ e | 119,776 mtCO ₂ e |
| Waste Management Landfill | 60,474 mtCO ₂ e | 57,935 mtCO ₂ e | 57,689 mtCO ₂ e |
| FM 812 Landfill | 9,193 mtCO ₂ e | 17,785 mtCO ₂ e | 25,790 mtCO ₂ e |
| Wastewater treatment plants | 32,500 mtCO ₂ e | 32,500 mtCO ₂ e | 32,500 mtCO ₂ e |
| TOTAL | 466,393 mtCO₂e | 480,475 mtCO₂e | 555,041 mtCO₂e |

Source: EPA Facility Level Information on Greenhouse Gases Tool (FLIGHT)

<http://ghgdata.epa.gov/ghgp/main.do>