

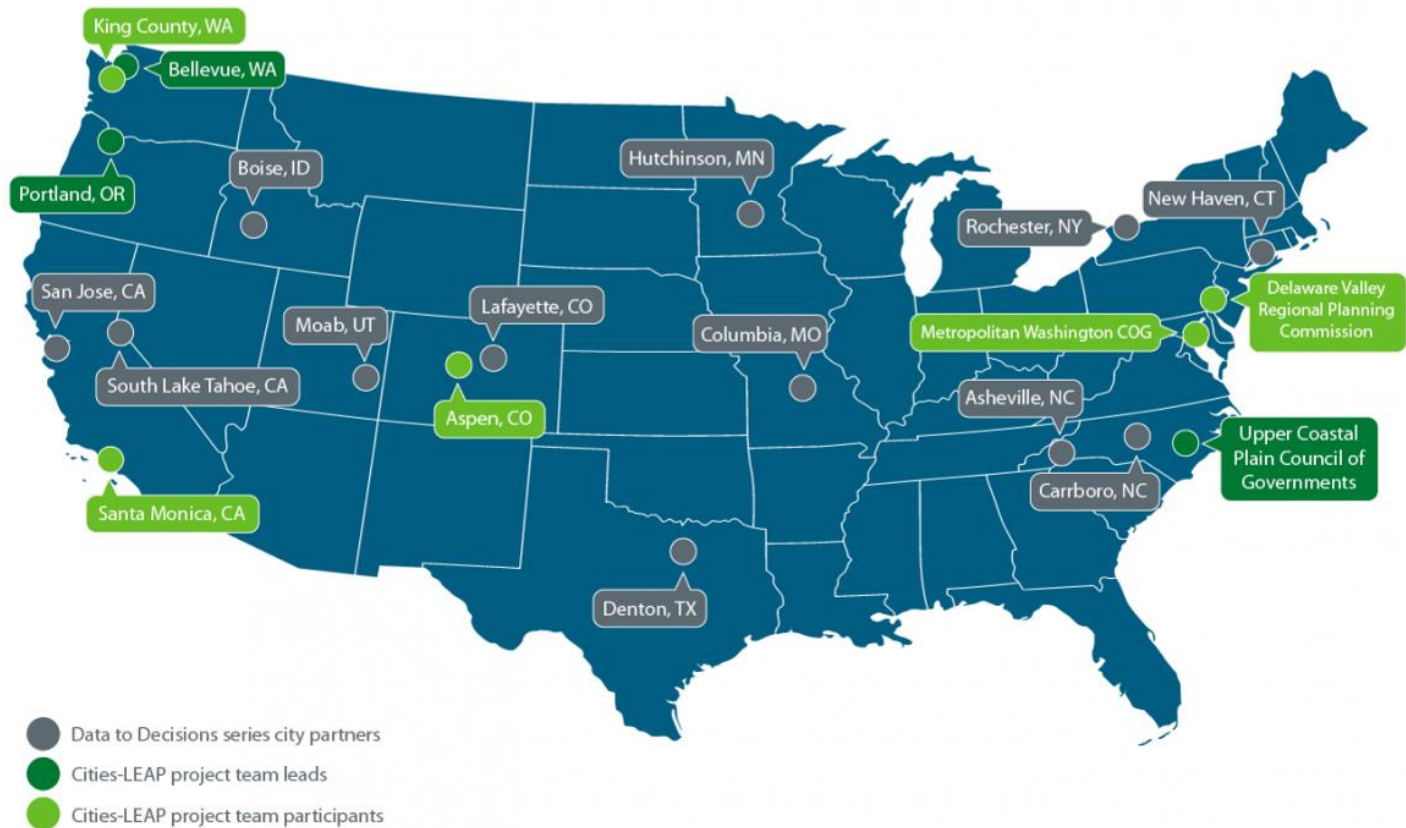
# Contribution Analysis Toolkit



July 25th, 2018

# Department of Energy Cities-LEAP

Cities Leading through Energy Analysis and Planning



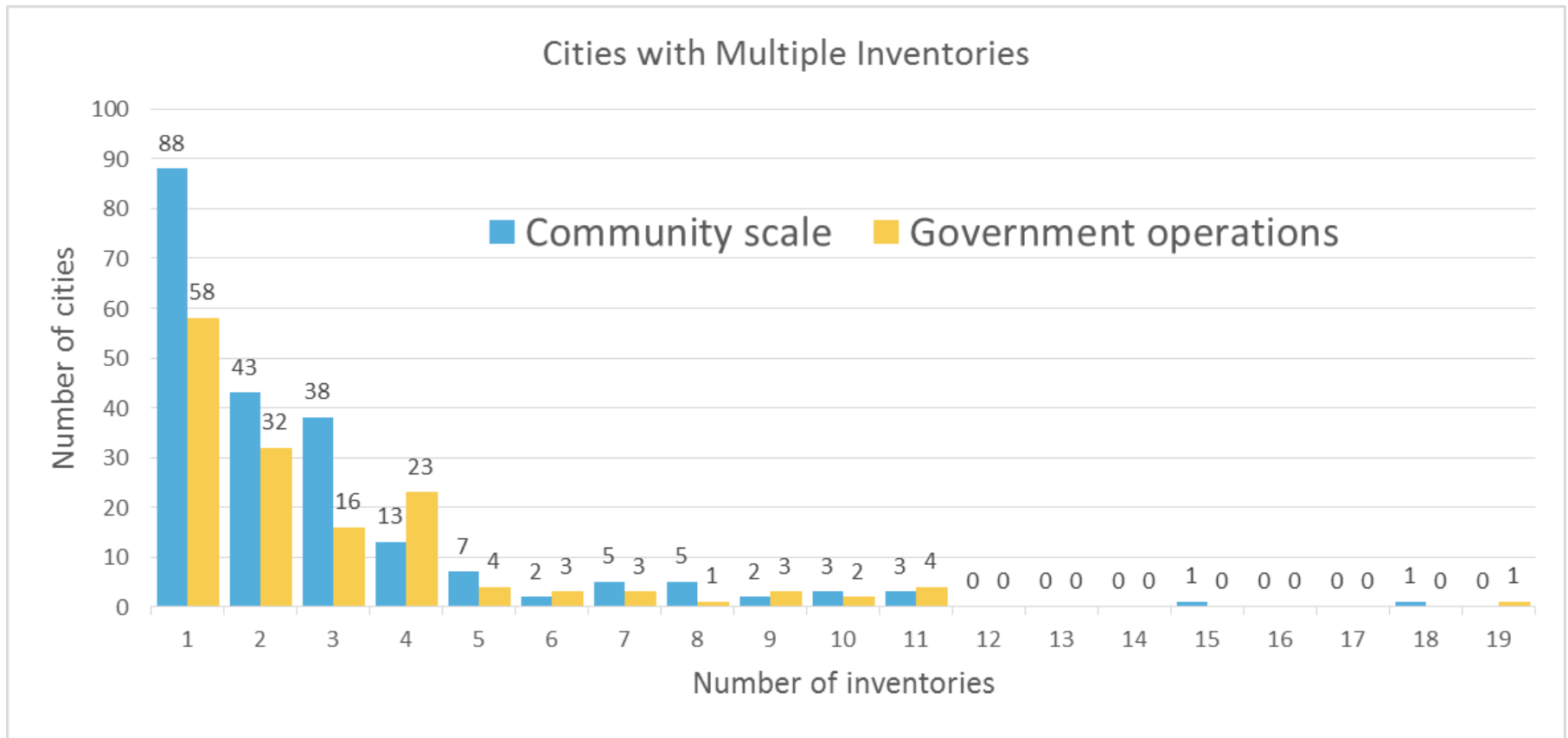
Visit us at [www.energy.gov/eere/cities](http://www.energy.gov/eere/cities)

See your city energy profile at [apps1.eere.energy.gov/sled/](http://apps1.eere.energy.gov/sled/)

# History of City-Scale Emissions Management in the US

- ~ Mid 1990's – First attempts by cities to account for their emissions using national-scale methods
  - Era of spreadsheets and desktop tools (CACCP)
- 2008 – Local Govt Operations Protocol
- 2011 – US Community Protocol
- 2013 – ClearPath Online Software
- 2014 – Global Protocol for Community Scale Emissions

# Cities with Multiple Benchmarks



# Are You *Fully* Committed?

**WE ARE STILL IN**



# Ever-Increasing Ambition

- Best source of data to inform projections of how we'll collectively meet global targets
  - Cities + Business → Regions → States → Nations
- Maintaining a Media Narrative & Orienting Partners
- These are critical functions to our collective goal

# Fulfilling Ambition

- Progress is made at two scales
  - Incremental Projects:
    - one rooftop solar,
    - one bike lane,
    - one building code update at time.
  - Systems Change
    - Grid Carbon Intensity (through Policy + Purchasing)
    - Regional Transportation Demand Management
    - Market Transformation (through Disclosure)
  - Regional Coordination Creates Systems Change
  - How can we tell if we're making progress?



# Contribution Analysis Accounts for:

- Change to Inventory Inputs
  - Separates the relative impact of Emissions Factor and Total Activity
- Change to Operating Conditions
  - Determine relationship between weather and city performance to account for change
- Change to what's in the Community
  - Simple “per-capita”, “per-employment” differences
- Local Action
  - Subtract the remainder

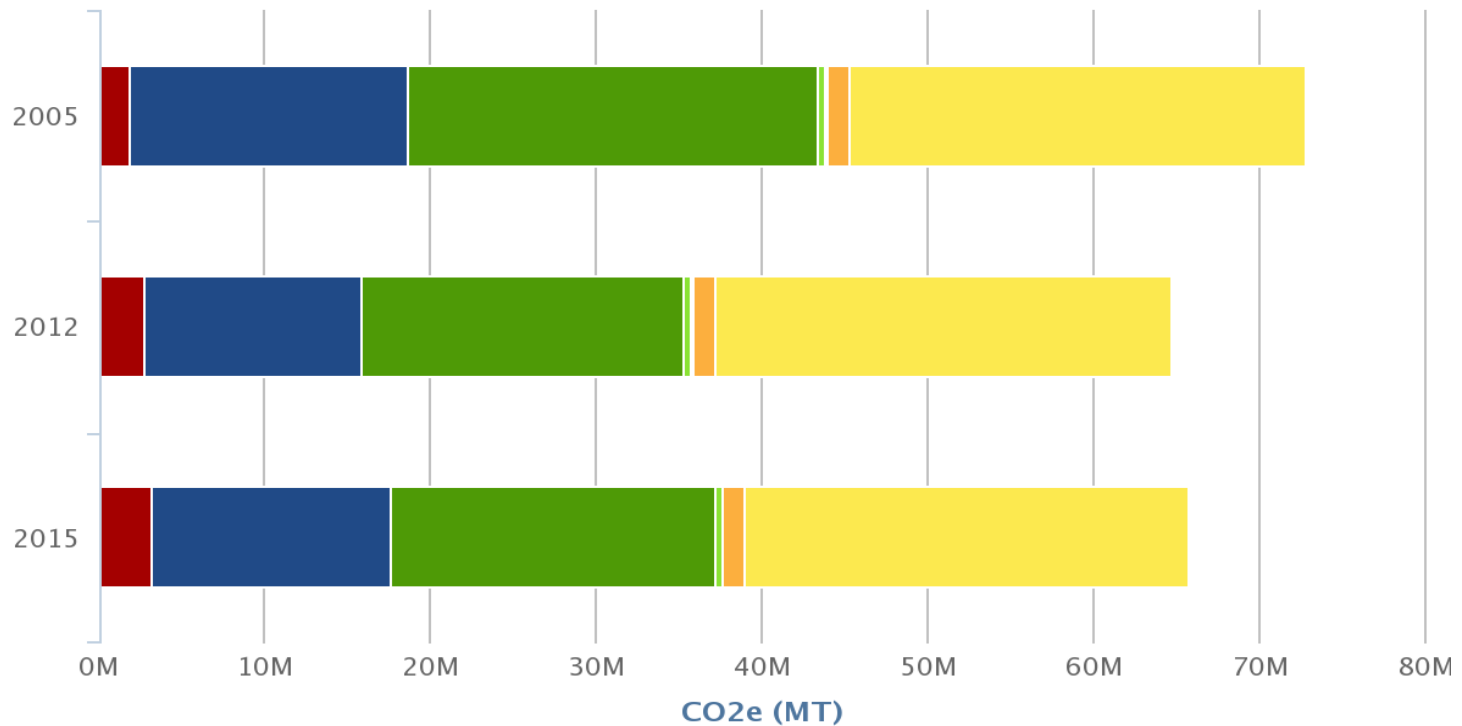


# Summary of 14 Demonstration Cities



# Metropolitan Washington GHG Trends

## 10% reduction in GHG emissions, 2005 - 2015

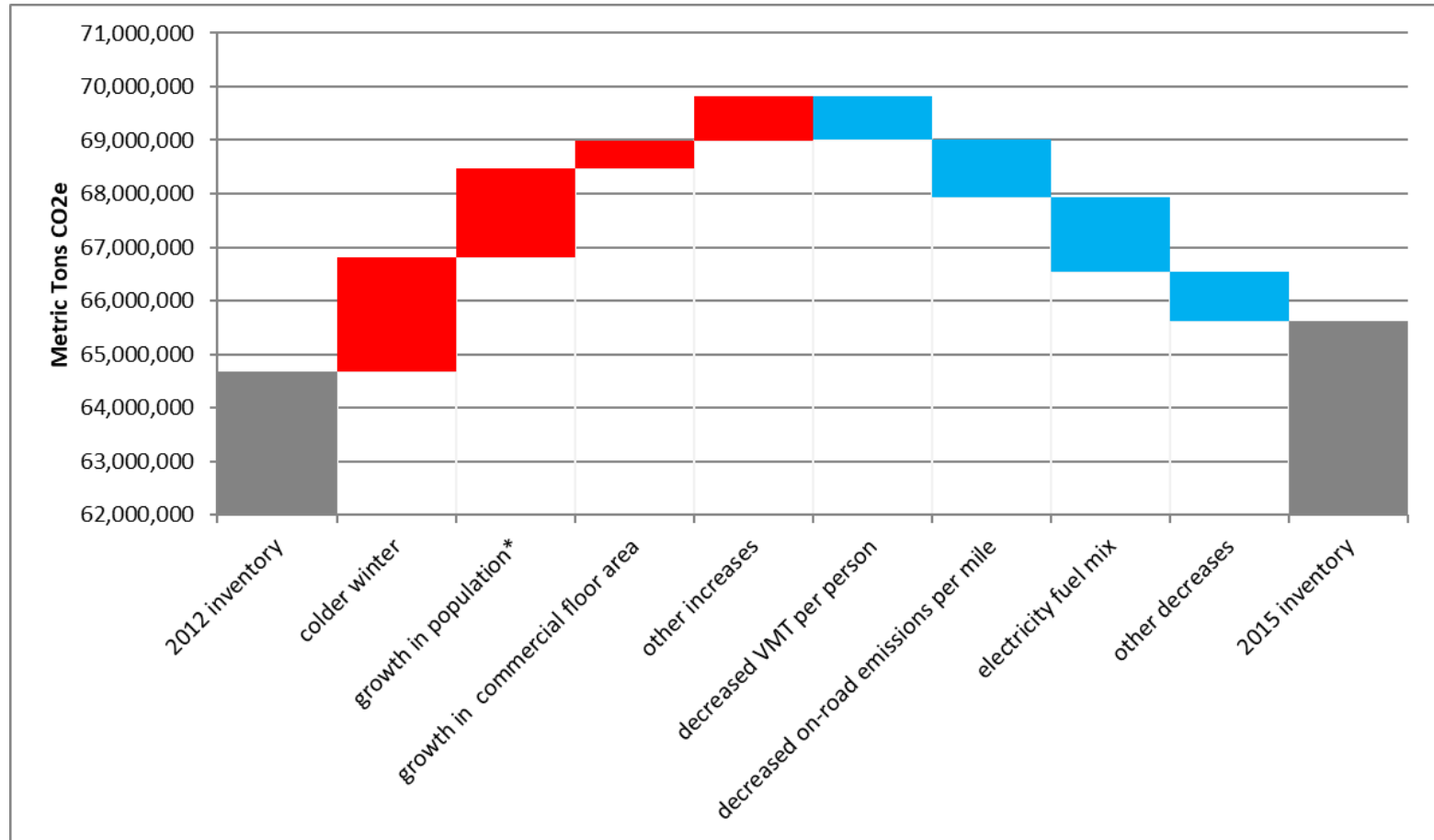


■ Process & Fugitive Emissions ■ Residential Energy ■ Commercial Energy ■ Agriculture  
■ Water & Wastewater ■ Solid Waste ■ Transportation & Mobile Sources

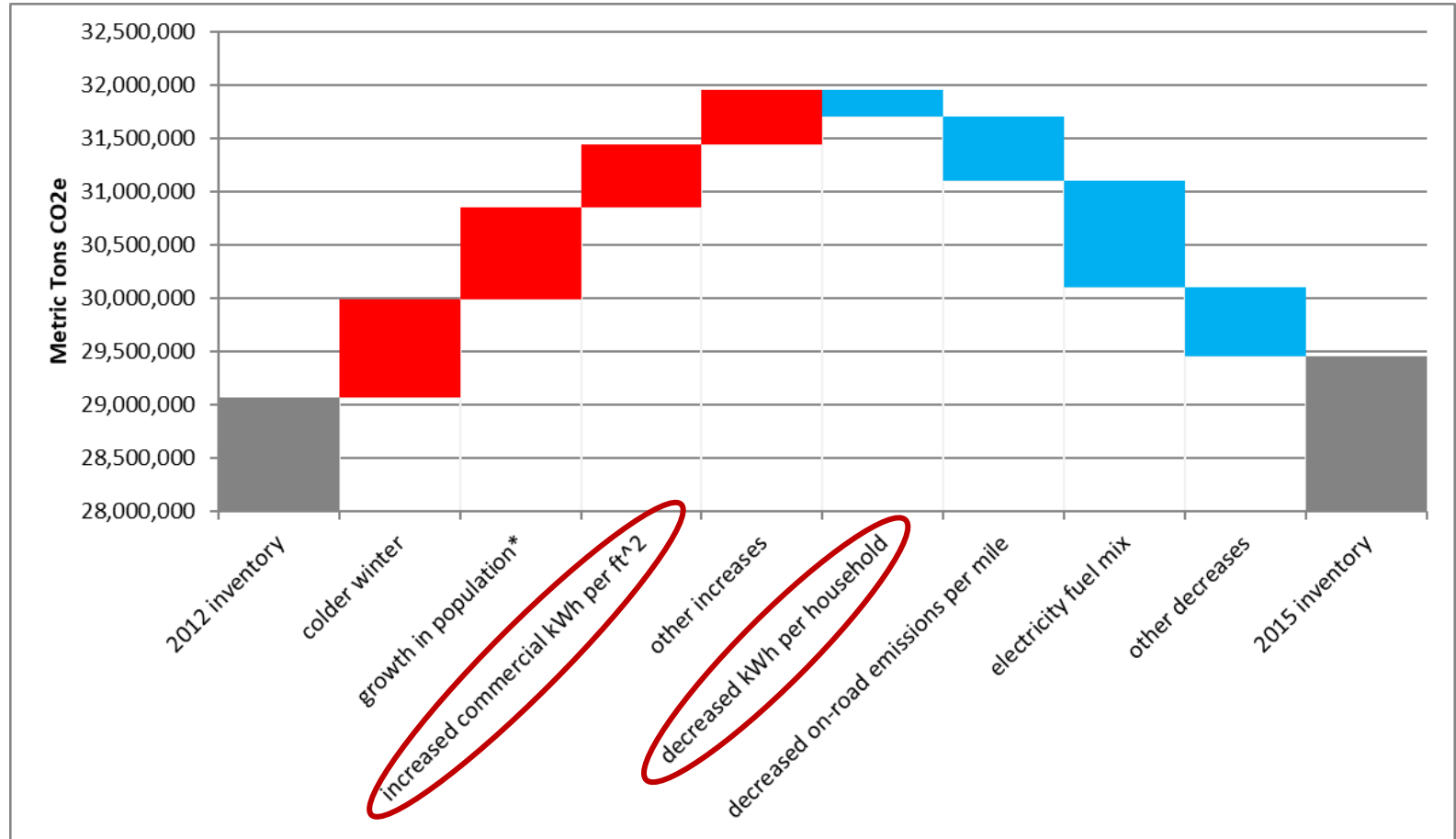
Highcharts.com



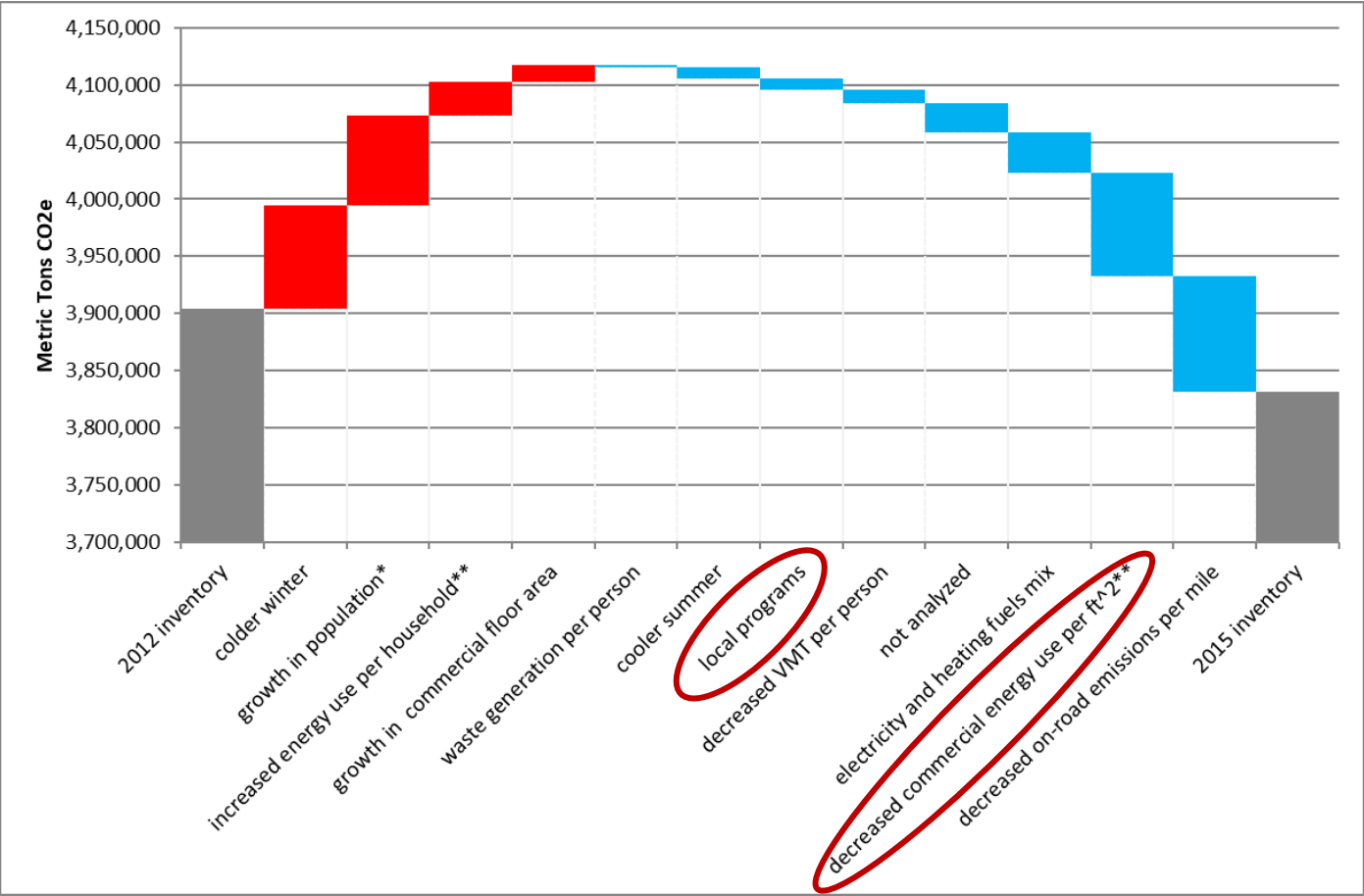
# Metro Washington Drivers of Change



# Sub-Region A Drivers of Change



# Sub-Region B Drivers of Change



# Compliment the Commitment Narrative

- ICLEI-USA is working to add your successes to the dialog
- Contribution Analysis is a powerful new tool to communicate progress
- Be Visible
  - Report / Share Successes
  - Use MWCOCG and ICLEI to Amplify