

- 12:00 – 12:15**    **Introductions and Grounding (Inform)**
- 12:15 – 12:40**    **Preliminary 2016 Carbon Inventory Results (Inform)**
- 12:40 – 1:40**    **Waste Deep Dive + Focus on CORP (Involve)**
- 1:40 – 2:10**    **Innovate Fort Collins Challenge (Involve)**
- 2:10 – 2:25**    **CAC Role Going Forward**
- 2:25 – 2:30**    **Closing, Next Steps**

# Introductions and Grounding (Inform)

## Objectives:

- Council Update
- Messaging and Engagement, Climate Economy Update

- Climate Action Plan, test Fortify
- Overall support for the efforts' direction
  - Financial analysis is going well
  - Support CAP Dashboard
- Additional offers (if needed) will be a topic at the Council's May retreat

## CAC Feedback/Influence:

Dashboard Phase 2 will have TBL goals  
Road to 2020 no longer being used  
Check in on relevant Council decisions



The screenshot shows the City of Fort Collins Climate Dashboard. At the top, it features the City of Fort Collins logo and a navigation bar with "Return to fcgov.com". The main heading is "Road to 2020+ Forging Our Efficient Future". Below this, there is a "City of Fort Collins Climate Dashboard" section with a welcome message and a "Calculate Your Carbon Footprint" button labeled "COMING SOON". The dashboard is divided into three indicator sections: "Environmental Indicators" showing a 9% decrease in greenhouse gas inventory from 2005 to 2015, with a current value of 2.1 M Metric Tons CO2e (2015) and an "On Track" status; "Economic Indicators" labeled "COMING SOON"; and "Social Indicators" also labeled "COMING SOON". A footer contains "Return to fcgov.com" and "Footer Information".

- Messaging and Engagement
  - Testing names via online survey
  - Exploring adt'l engagement options for the plan development
- Climate Economy
  - Conducting stakeholder interviews

## **CAC Feedback/Influence:**

Testing other taglines as well, will continue to focus on the positive and actions  
Engaging stakeholders based on CAC feedback

# Preliminary 2016 Carbon Inventory Report (Inform)

## Objectives:

- Community Inventory – how is it calculated?
- Preliminary Inventory Results for 2016

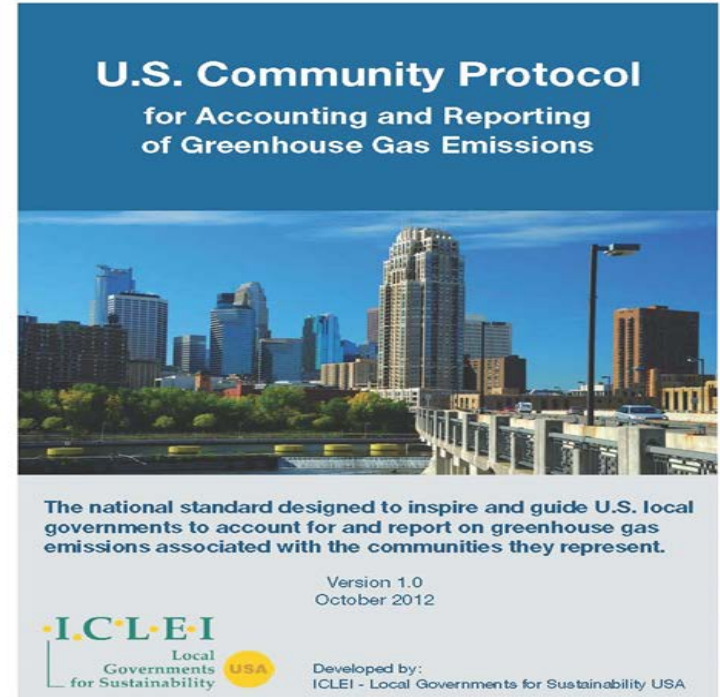
## What is a community greenhouse gas emissions inventory?

- A way of calculating our community's climate-relevant emissions

## Why do track our greenhouse gas emissions?

- Climate action goals
- Track progress
- Compliance with protocols and commitments

- Geographic boundaries:
  - Focus on emissions occurring within our city limits
  - Some 'out-of-boundary', e.g. electricity generation
- Emphasis on local control
- Consistent accounting for comparability



# What does Fort Collins track?

Electricity



Ground Travel



Water



Natural Gas



Solid Waste





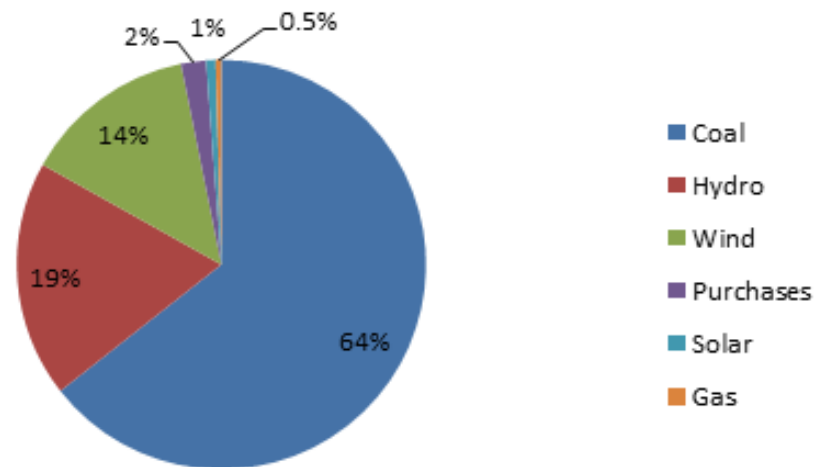


**Emissions from electricity** use are caused by fossil fuel combustion.

Electricity emissions considered:

- Total electricity consumed
- Electricity emissions factor
- Distribution and transmission losses

**2016 Fort Collins Resource Mix**





**Transportation, or ground travel, emissions** come from the combustion of fuel, primarily gasoline and diesel.

Ground travel emissions considered:

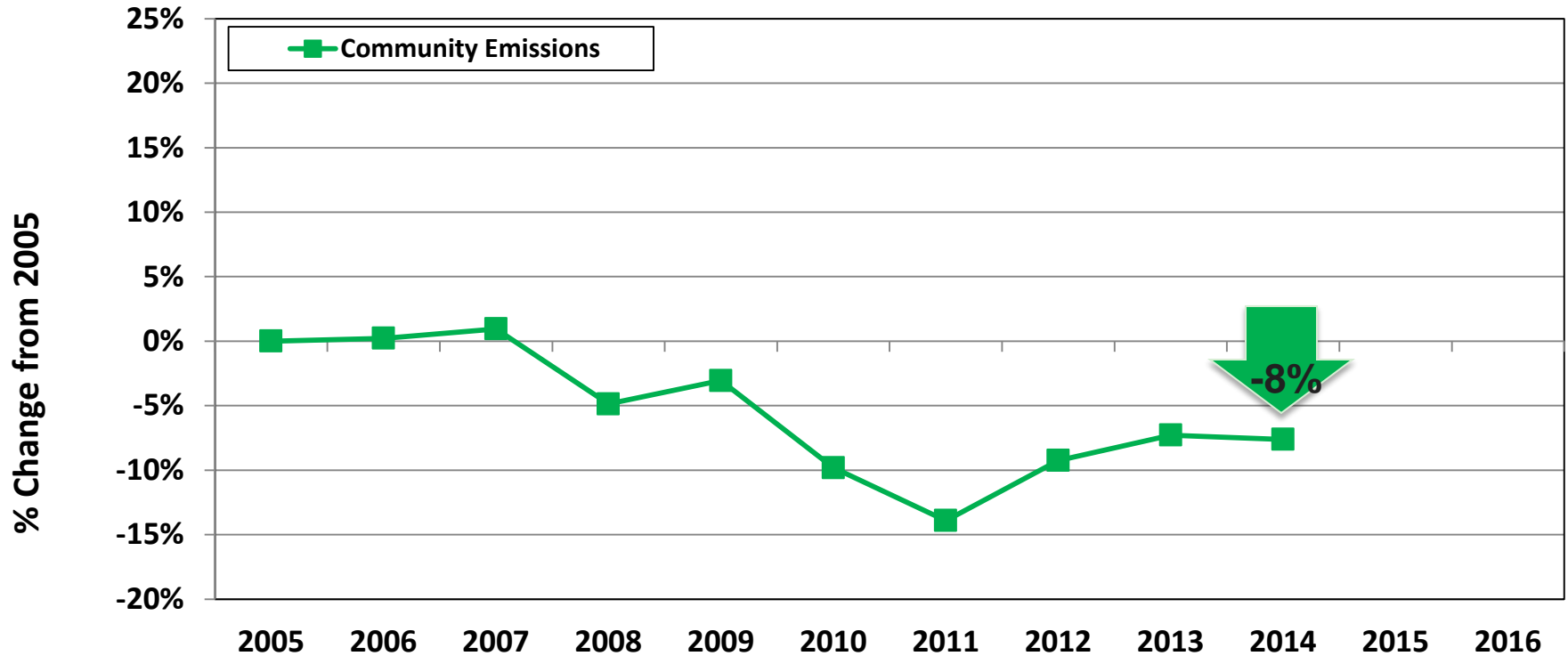
- Total vehicle miles traveled
- Types of vehicles traveling
- Mileage per vehicle type
- Emissions factor for fuel combustion

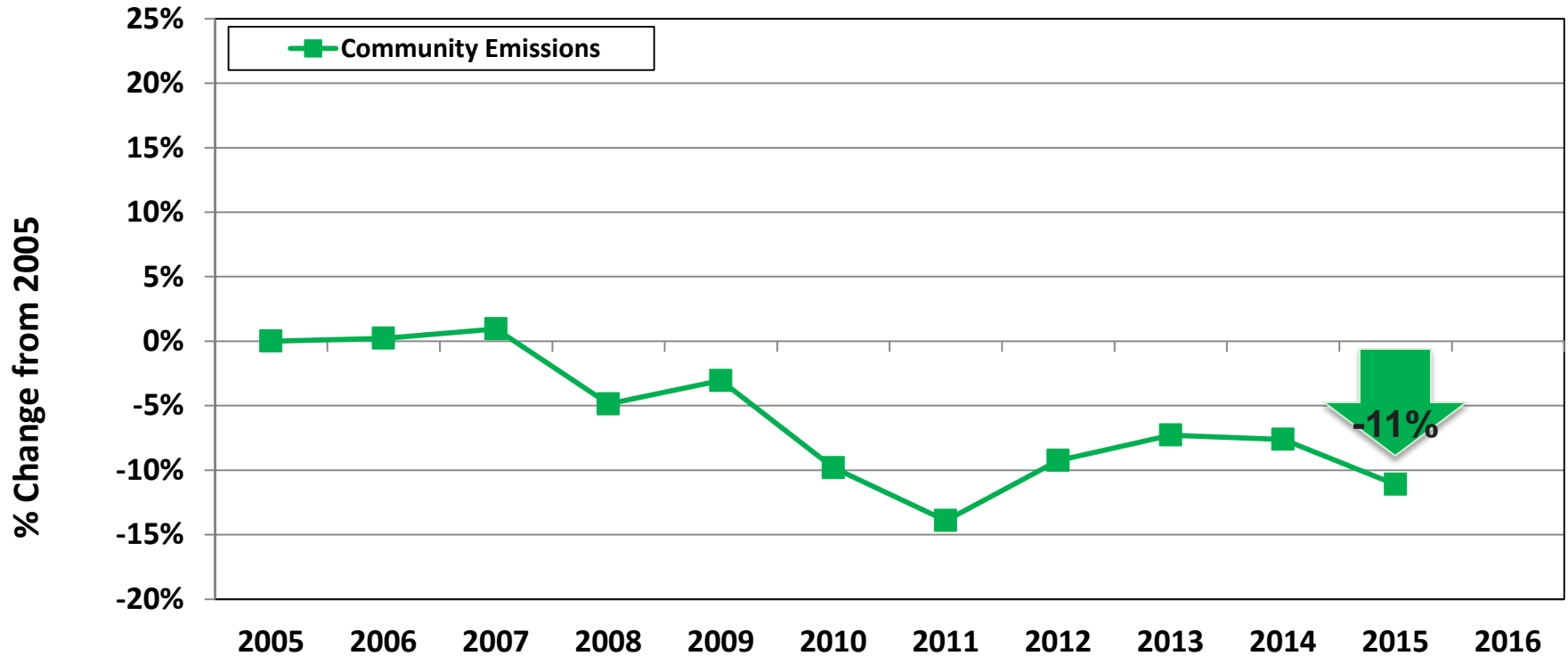


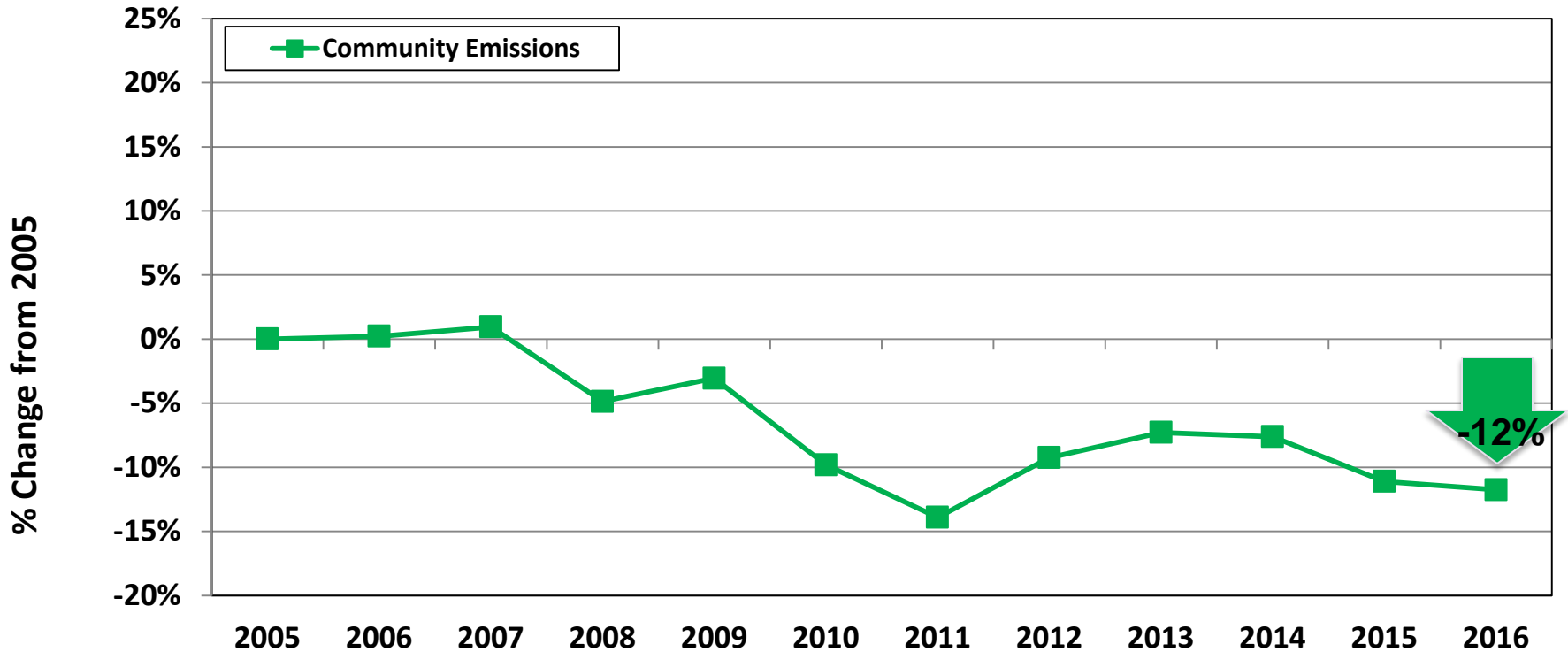
**Natural gas emissions** are produced from the combustion, primarily for heat.

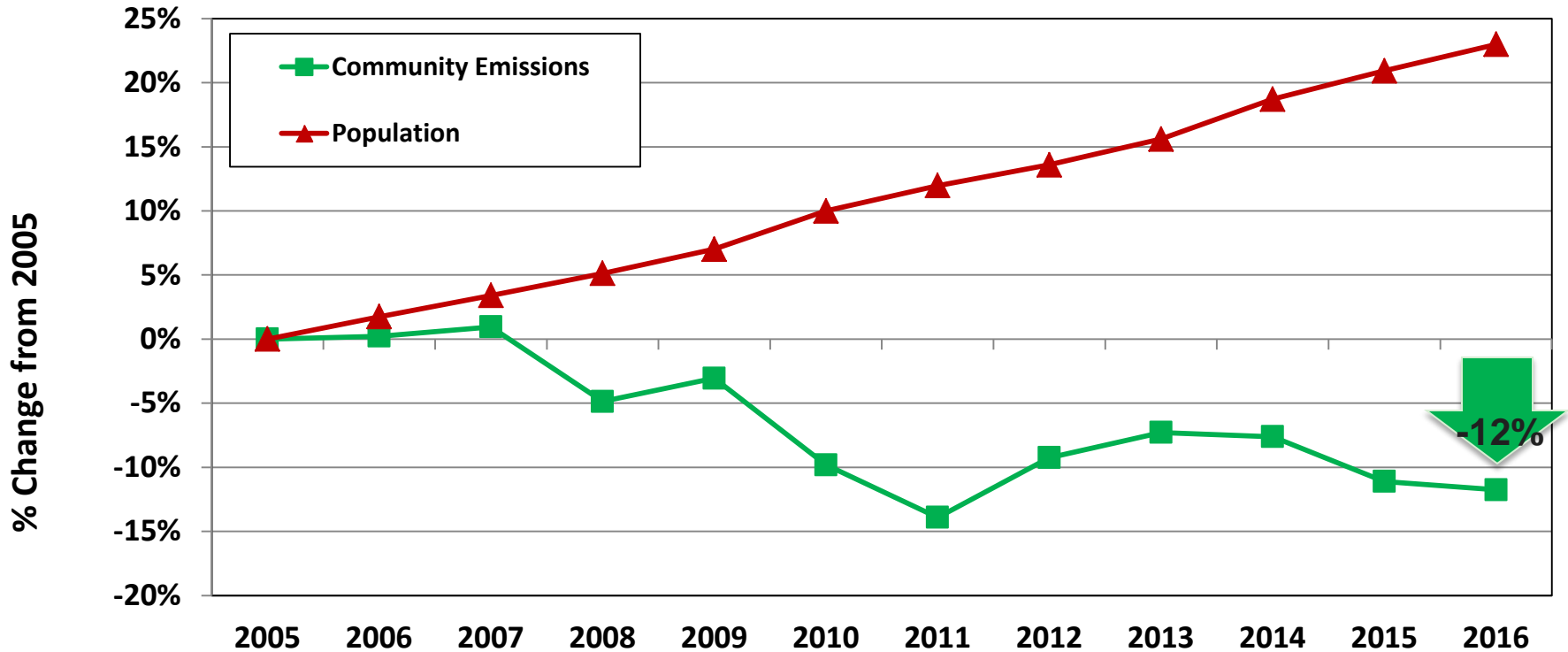
Natural gas emissions considered:

- Total natural gas consumption
- Emissions factor for combusting natural gas

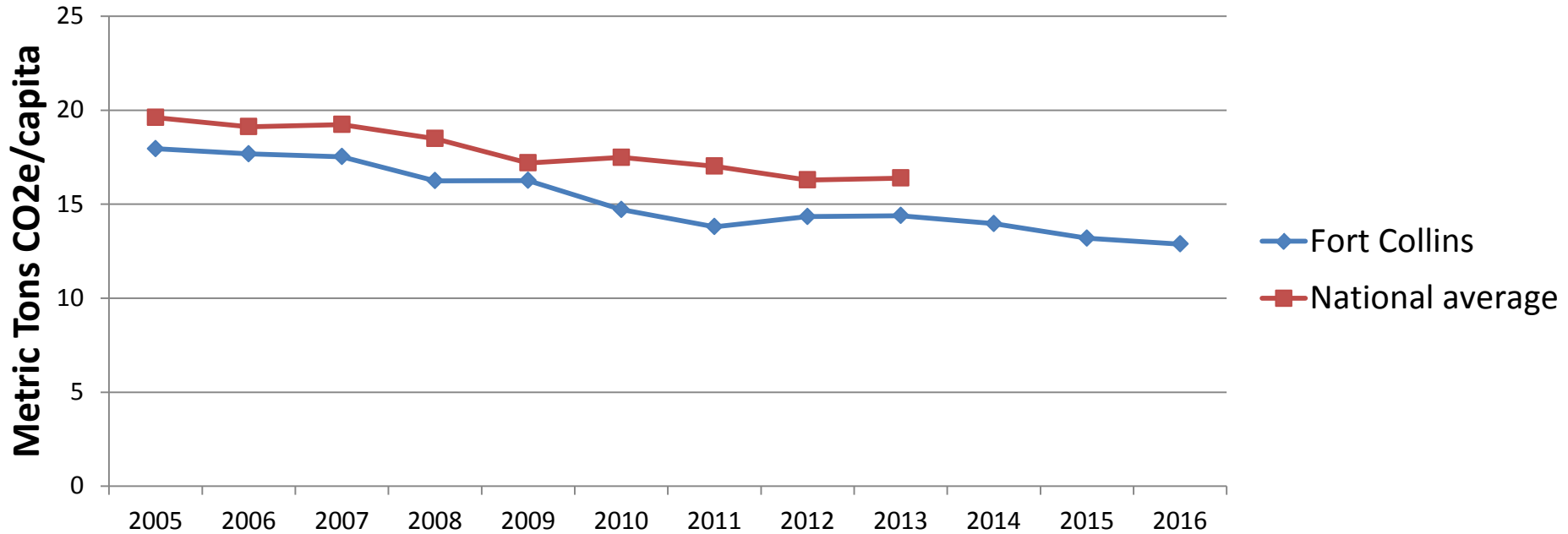








## Per Capita GHG Emissions





## Take away messages

- GHG emissions **down 12%** from 2005
- Carbon accounting is iterative
- Acknowledge sphere of control

## Next steps

- CAP dashboard with 2016 inventory results (May 2017)
- 2016 inventory status report (June 2017)
- Transition to Global Protocol for Community-scale Greenhouse Gas Emission Inventories (GPC) (2017-2018)



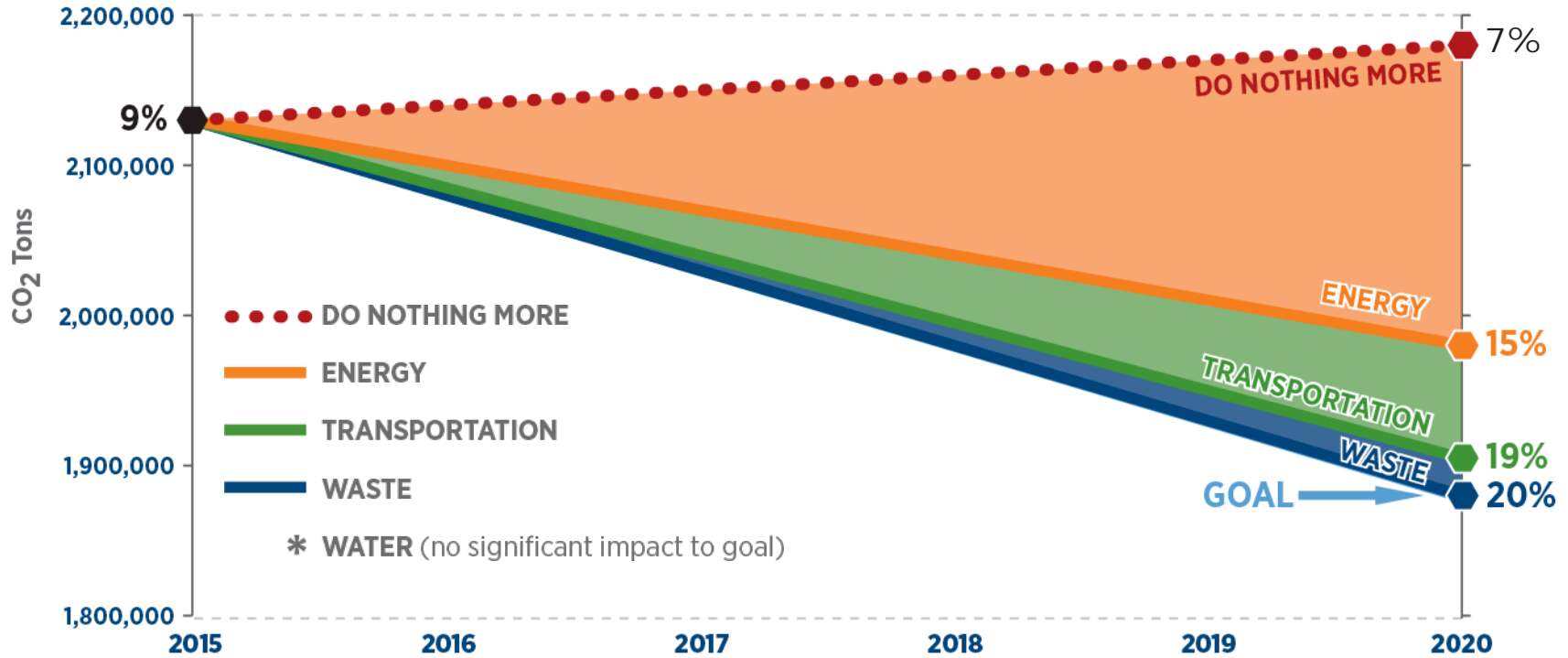
Molly Saylor  
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City of Fort Collins  
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# Waste Deep Dive and Focus on Community Organics Recycling Project (Involve)

## Objectives:





- Illustrate the role waste plays in the Climate Action Plan
- An overview of the Waste Reduction and Recycling initiatives that will contribute to the 2020 policy target
- Focus on Community Organics Recycling Project

# Policy Targets for 2020



# Targets and Focus on Waste

## POLICY TARGETS FOR 2020\*

	Energy =	181,000	60%	15%
	Transportation =	94,000	31%	19%
	<b>Waste =</b>	<b>26,000</b>	<b>9%</b>	<b>20%</b>
	Water =	(453)	0%	20%

**Total = 299,000**

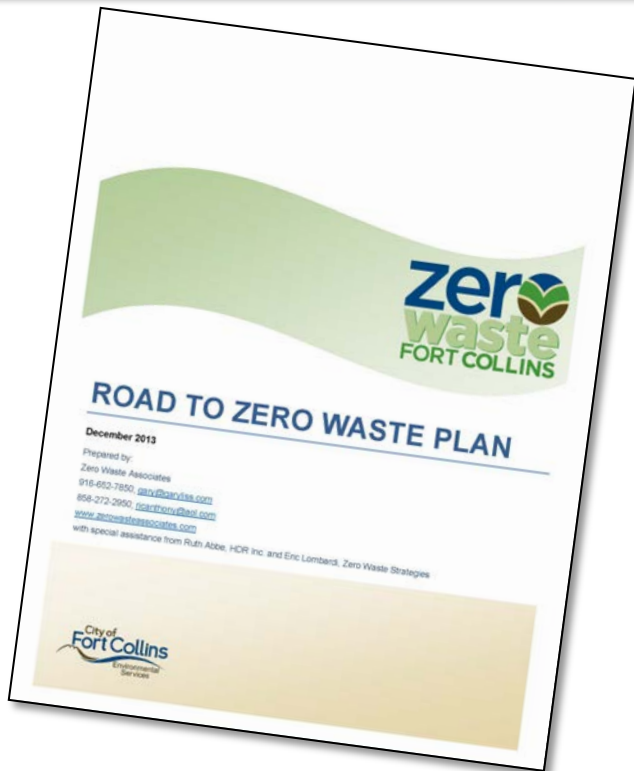
## WASTE INITIATIVES IMPACT TO 2020

Community Recycling Ordinance (Adopted)	14,000
Community Organics Recycling Project (Proposed)	
Voluntary	Up to 4,300
Mandatory	Up to 19,700
Wood Utilization (Proposed)	2,000

**Total = Between 14,000 and 35,700**

\* Based on Energy Policy, Transportation goals set forth in the CAP Framework, Road to Zero Waste, and Water Efficiency Plan





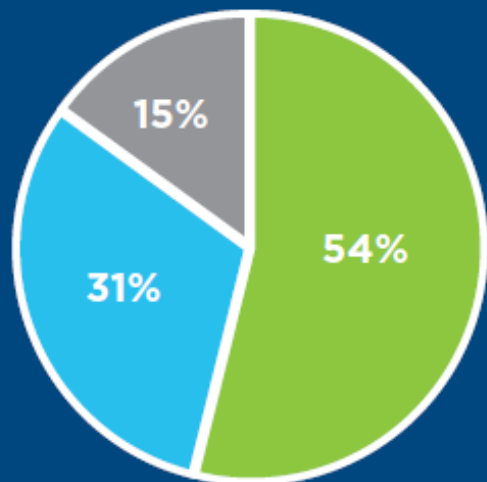
## Road to Zero Waste Goals

- 75% diversion by 2020
- 90% diversion by 2025
- Zero waste by 2030

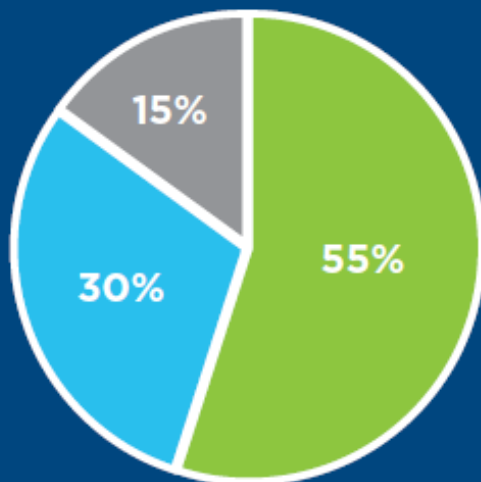
**Draft 2016 diversion: 51%**

# Composition of Fort Collins' Landfill Waste, 2016

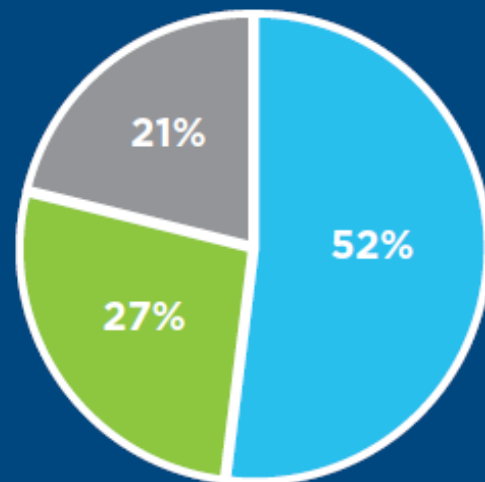
## RESIDENTIAL



## COMMERCIAL



## INDUSTRIAL



 COMPOSTABLE

 RECYCLABLE

 NOT CURRENTLY RECYCLABLE



## **Council Approved – September 2016**

- Updated rules for trash and recycling collection
- Recycling service to multi-family and commercial by 2020
- Grocers subscribe to food scraps collection by end of 2017



## **Initially included organics collection from residents, restaurants**

- Organics decision delayed for more in-depth analysis
- Council requested follow-up on organics options in 2017

## Services Being Considered

- Curbside collection of food scraps + yard trimmings
  - single family homes
- Restaurant collection of food scraps

## Analysis

- Financial impacts
- Climate impacts
- Waste sorts at restaurants



- Decision Points
  - Program mandatory or voluntary
  - For residential: yard trimmings only or + food scraps
  - End destination for materials
    - Dependent on materials collected
- Analysis Includes
  - Input from other Colorado communities
  - Fort Collins haulers



## Currently Operational

- A1 Organics site in Eaton (currently yard trimmings only)
- A1 Organics in Keensburg (currently yard and/or food scraps)

## Theoretical Options

- Transfer station at Larimer County Landfill
- Composting facility at Larimer County Landfill
- Drake Water Reclamation Facility (with food processing on or off site)
- Heartland Biodigester in Kersey

*Note: strong odor control would be designed into any facility*

- Common inputs in carbon impact, financial modeling
- Financial model expanded with cost inputs from interviews with four peer communities
  - “Base-case” reflects average of all inputs
  - Worst-case reflects most expensive input received
- Cost variables include tipping fees, personnel and hauling costs
- Costs converted to ranges for estimated monthly impact

<b>Residential Options</b>	<b>Bundled yard + food</b>	<b>Opt-in yard + food</b>	<b>Bundled yard only</b>	<b>Opt-in yard only</b>
<b>Tons composted (annual)</b>	<b>12k-16.5k</b> (21-27%)	<b>2k-3.5k</b> (6-8%)	<b>5k-6.8k</b> (8-11%)	<b>800-1.5k</b> (3-6%)
<b>GHG reductions MTCO2E (annual)</b>				
<b>Potential cost (monthly)</b>				
<b>Jobs created</b>				

<b>Restaurant Options</b>	<b>Required</b>	<b>Opt-in</b>
<b>Tons composted (annual)</b>	<b>4.8k-7k</b> (8-12%)	<b>800-1.5k</b> (1-3%)
<b>GHG reductions CO2E (annual)</b>		
<b>Potential cost (monthly)</b>		
<b>Jobs created</b>		

## Under development, expected roll-out Q3 2017

- Focused on residents
- Providing tools, website, infographic
- Connect larger concepts with local relevance and action
- Will build upon national campaigns





- Further Refinement of Analysis
- Community Outreach
  - Boards & commissions
  - Public meeting on May 2, 4-6pm at 222 Laporte Ave
- City Council Work Session – May 23
  - At Council direction, further pursue specific options

1. Based on the options for the organics portion of the Community Recycling Ordinance, and any past experience you've had in this issue, what are your initial reactions?
2. What questions do you think the stakeholders you represent would have about organics collections and the various approaches?

[fcgov.com/recycling/updates.php](http://fcgov.com/recycling/updates.php)

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# Innovate Fort Collins Challenge (Involve)

## Objectives:

- Project status update (Offer 26.8 Efficiency Pilot Projects and Innovation Fund)
- Discussion on CAC engagement in “pitch night” and evaluation criteria feedback

# Municipal vs. Innovate FC Challenge

## **Municipal Innovation Fund**

- Support 11 City Organization Sustainability Goals
- Internally focused on City Operations
- Funding decisions optimize Return on Investment & leverage Triple Bottom Line

## **Innovate FC Challenge**

- Support community-wide engagement
- Externally focused on Climate Action Plan goals (waste/energy/transportation)
- Funding decisions on GHG reduction potential, TBL & scalability

## Competition Framework:

- Solicit external innovative projects to assist with CAP goals
- Focus on Energy, Waste & Transportation
- Financial awards \$5k-\$250k
- Using LOI as first screen with full application by invitation only



## Eligibility:

- Clear alignment with target areas: *energy, waste, transportation*
- Quality of project plan, budget and schedule, etc.
- Defined potential to reduce GHGs
- Impact in Fort Collins

## Preferred Attributes:

-Matching funds

-Social Equity

-Scalability

-Inclusive project mgmt.

-Focused Collaboration

**April 3,  
2017**

**Application Website Opens**

**April 28,  
2017**

**Letter of Intent Due**

**May 26,  
2017**

**Full Application Due  
(by invitation only)**

**June 12,  
2017**

**Finalists Notified**

**June 28,  
2017**

**Public Pitch Night**

**July  
2017**

**Awardees announced**



## Potential Options for how can CAC be involved:

- Assistance in judging at Pitch Night on June 28 - Interested?
  - How would you like to be prepared in advance?
- Feedback on the proposed criteria:
  - Presentation quality/impact of sales pitch
  - TBL impact of proposal (social/environmental/economic)
  - Ability to achieve outcomes
  - Fit for Fort Collins

### Questions:

Which of these criteria are most important to you?

Other ideas for criteria?

# CAC Role Going Forward (Collaborate)

## Objectives:

- Q2 – Innovate Fort Collins Challenge
- Looking forward – let's brainstorm specific topic areas and the potential roles the CAC could envision playing.

- 1:1s/last meeting – some interest in engaging beyond these meetings
- Moving forward – options:
  - IFCC Challenge (Q2)
  - Innovation Summit (planning, determining focus)
  - Separate discussion on resource areas, e.g., waste, energy, etc.
  - Separate discussions on “nexus areas”, e.g., housing affordability, equity and inclusion, etc.
  - What else?

## Questions:

What topics are most interesting/relevant to CAC members?  
How would you like to be engaged?

# Closing and Other Topics

## Q3 Meeting Preview

Element	Proposed Topics	Proposed Impact
Direct Impacts	<ul style="list-style-type: none"> <li>- Focus on Energy Initiatives (EE, CE, and NG)</li> </ul>	<ul style="list-style-type: none"> <li>- See the big picture on Energy</li> <li>- Awareness of and early feedback on the Building Energy Scoring Initiative</li> <li>- Awareness on the PRPA Customized Resource Planning Effort (tentative)</li> <li>- Feedback on how staff communicates about the initiatives</li> </ul>
Enabling Initiatives	<ul style="list-style-type: none"> <li>- Debrief Pitch Night</li> <li>- Messaging and Engagement Update</li> <li>- Climate Economy</li> </ul>	<ul style="list-style-type: none"> <li>- Common understanding around the initiative</li> <li>- Feedback on process to date and process moving forward</li> </ul>
Q4 Preview	<ul style="list-style-type: none"> <li>- Transportation</li> <li>- Enabling TBD</li> </ul>	<ul style="list-style-type: none"> <li>- Emphasis on City Plan/TMP/Transit Master Plan</li> </ul>

*Open Discussion*

Thank you!