



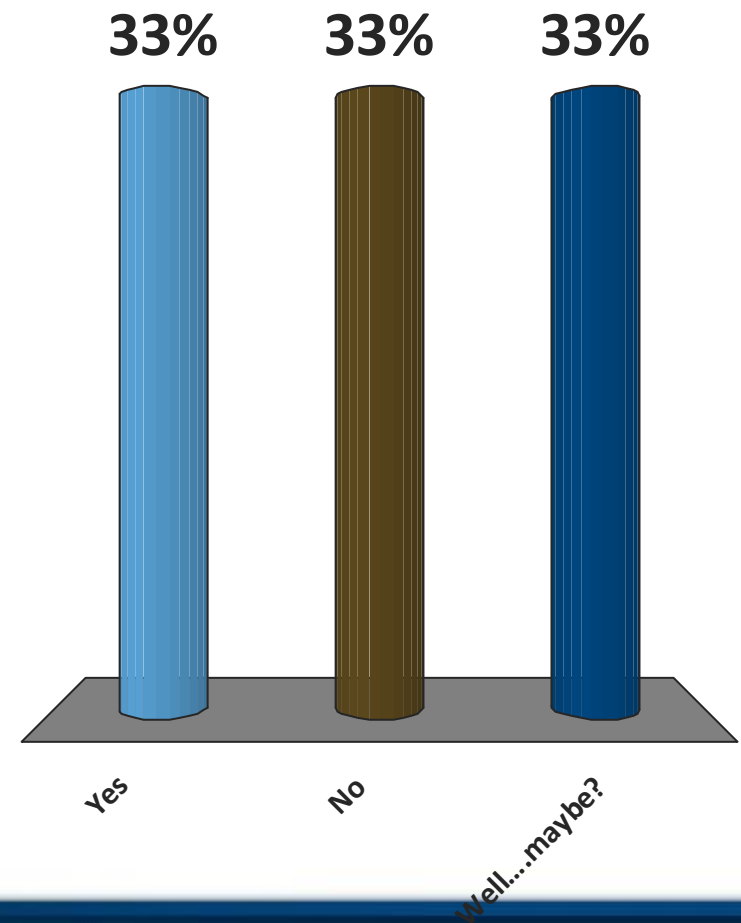
Climate Action Planning



CityWorks
May 2015

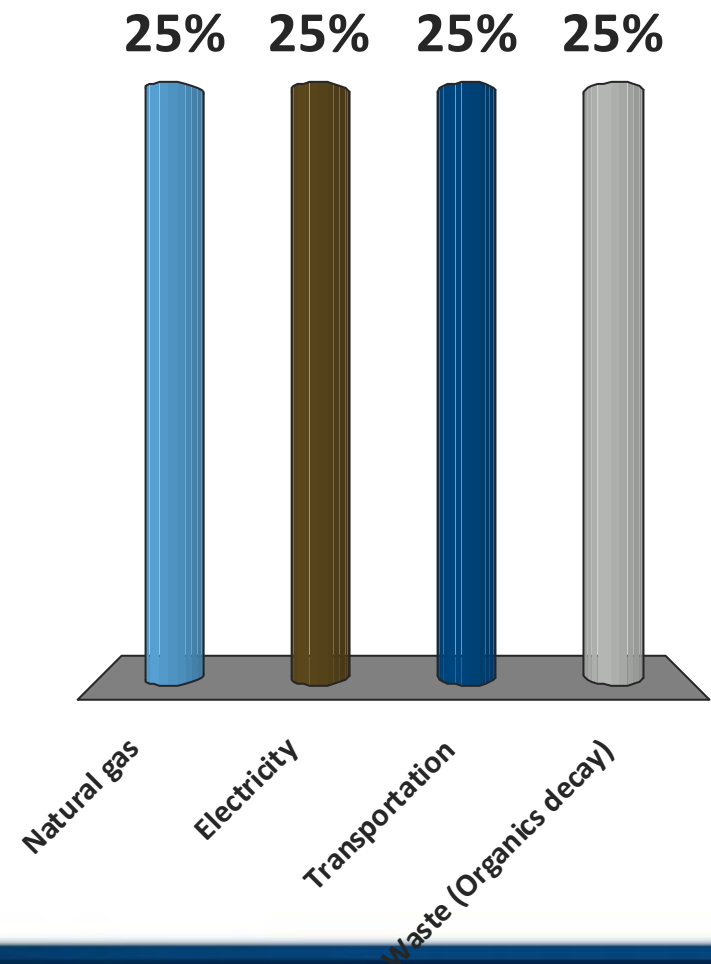
Were you aware of Fort Collins CAP?

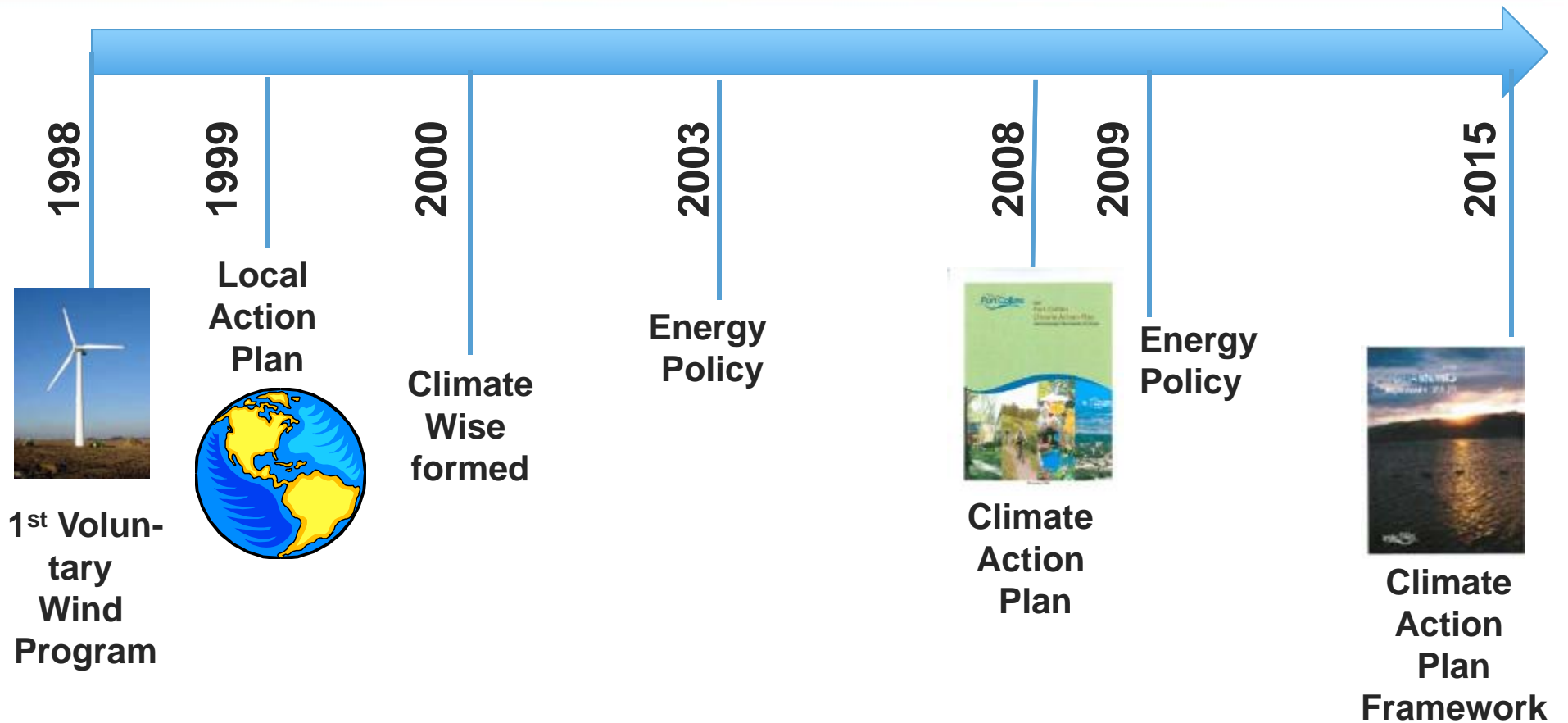
- A. Yes
- B. No
- C. Well....maybe?



Which is the biggest source of community GHG emissions?

- A. Natural gas
- B. Electricity
- C. Transportation
- D. Waste (Organics decay)





WHY Engage in Climate Action?



- ✓ Reduce air pollution emissions
- ✓ Reduce natural resource consumption
- ✓ Reduce waste and increase recycling
- ✓ Lower risk by diversifying energy sources
- ✓ Reduce reliance on foreign fuels
- ✓ Improve ability to adapt to climate change
- ✓ Support local businesses & the economy
- ✓ Public Support

Continual Improvement Evolving Motivators

2014 – Climate change more “top of mind”, aspirational goals

2008 – longer term goals, more focus on what is in local control

1999 – “No Regrets”, shorter term thinking



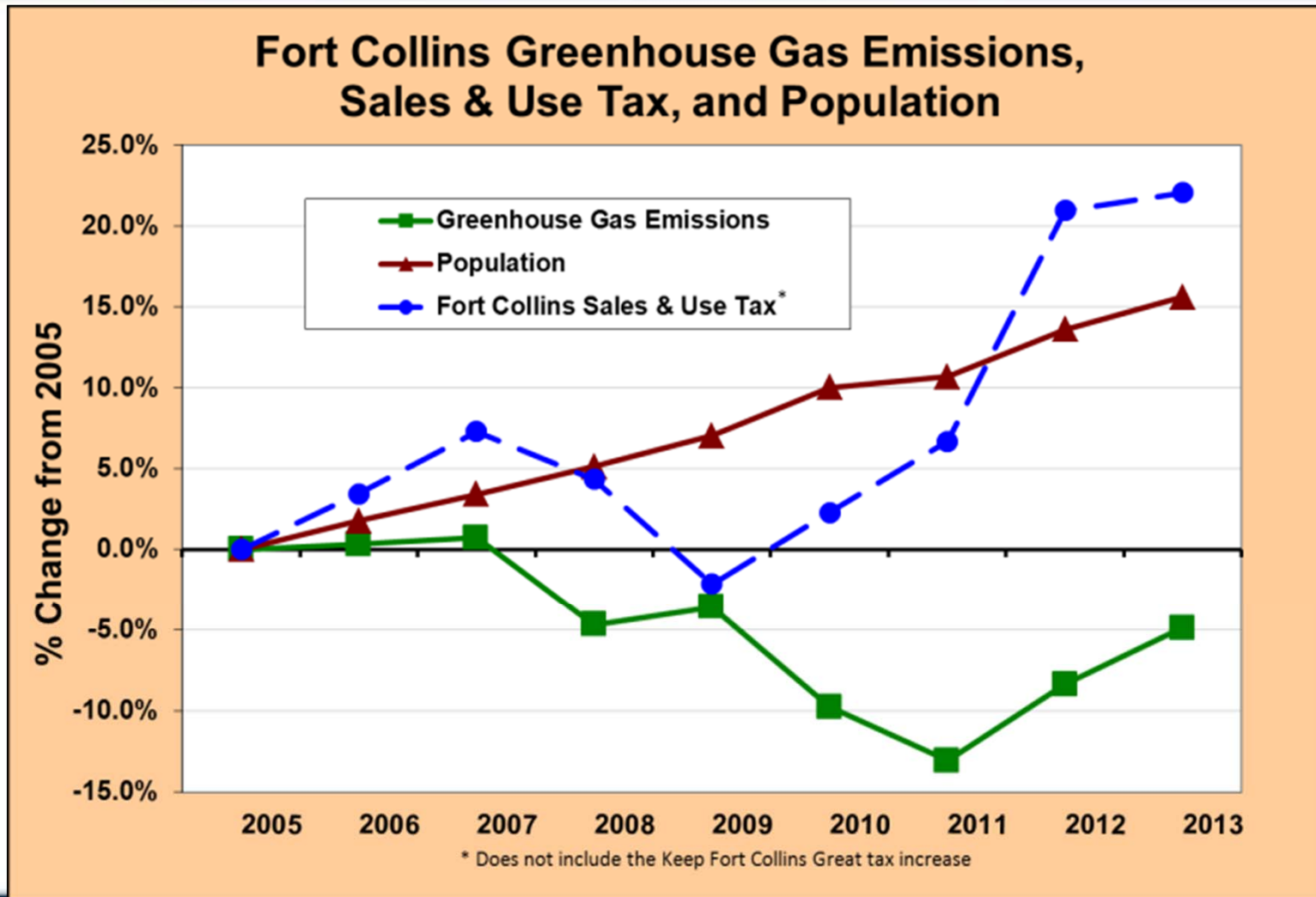
Climate Mitigation and Adaptation



Mitigation = Brakes
Adaptation = Air bags

- *Analysis, including triple bottom line*
- *Public outreach*

Sustainability Services Role-Tracking and Reporting





Climate Economy





**Colorado
Clean Energy
Cluster**



Recent drivers for GHG policy review

Up to 6⁰ F warmer summers
predicted for our region by 2040



Aging population brings
changing needs for mobility
options



Risk management benefits
associated with diversifying
energy supply portfolio

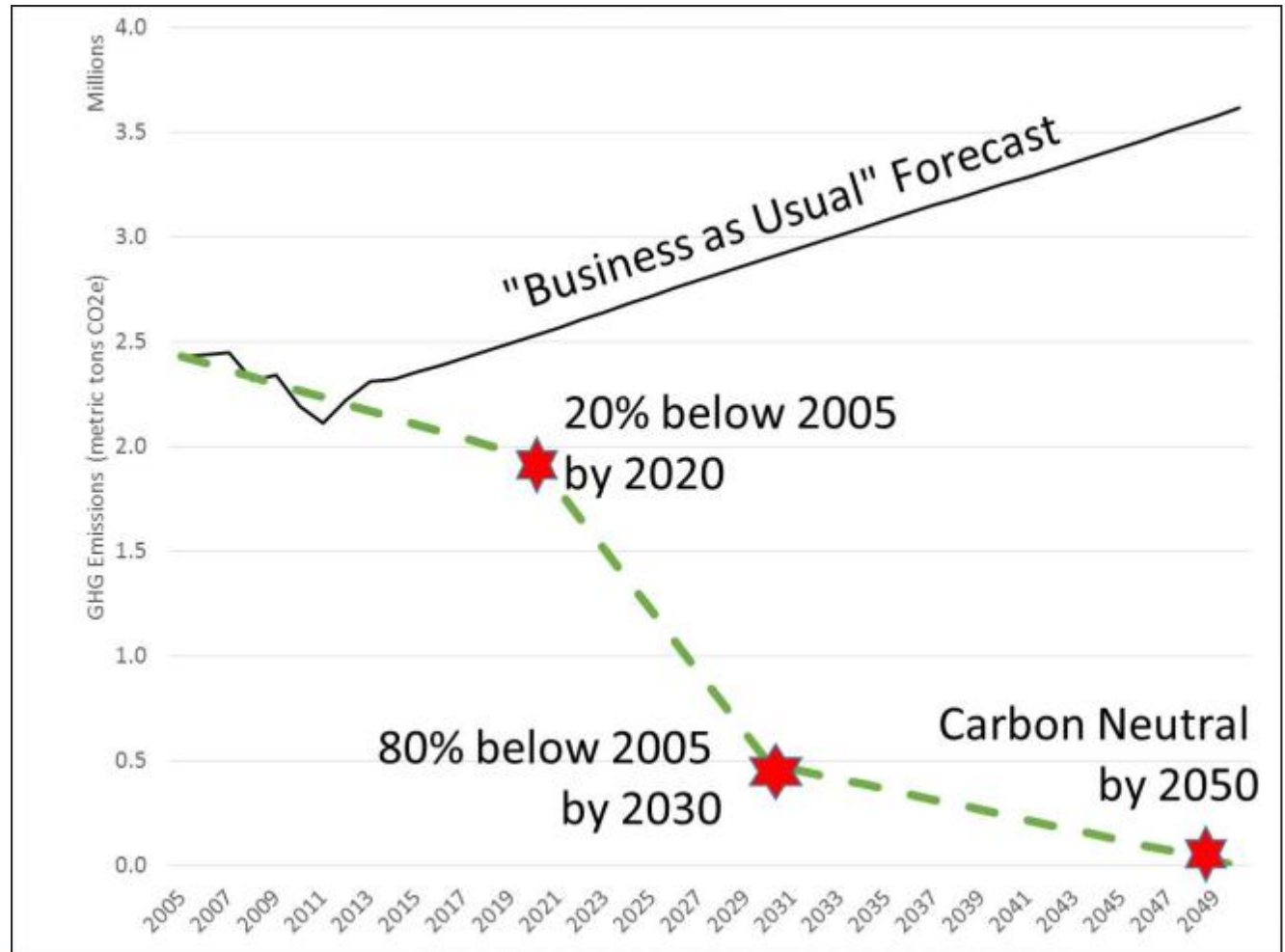


Advancing technologies,
lower costs



....describe the steps the Fort Collins community will need to take to achieve a community-wide greenhouse gas emissions reduction goals...

*Goal relative to 2005 levels



Community

- Citizen Advisory Committee
- Council Advisory Boards
- Public / Stakeholders

Subject Matter Experts

- Citizen Advisory Committee
- Local & National experts

Consultants

- Brendle Group
- Rocky Mountain Institute
- Platte River Power Authority

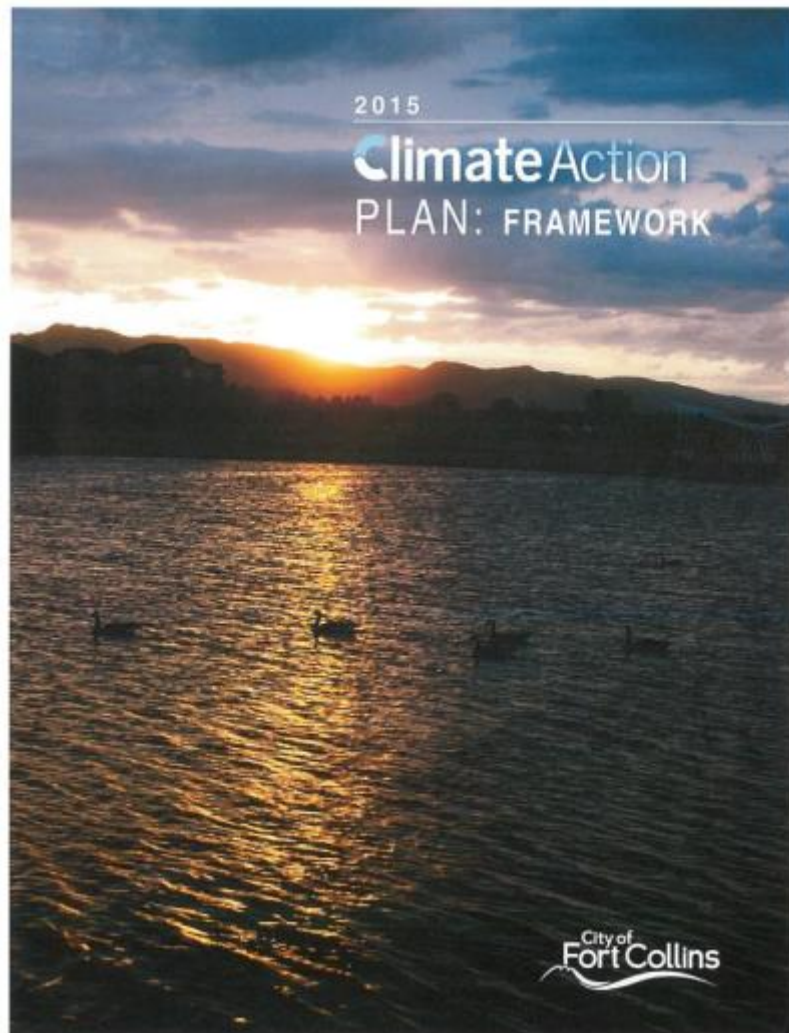


Quantified Strategies - Estimates

	2020	2030	2050
Buildings	50%	35%	45%
Transportation	12%	9%	14%
Energy Supply	21%	48%	33%
Waste Reduction	17%	7%	9%
Total	100%	100%	100%
Total Reductions (MTCO ₂ e)	272,200	1,119,000	1,192,000

- **15 stakeholder groups**
- **8 City Council Advisory Boards**
- **Three public open houses**
- **Web comment opportunity**





GHG Goals - adopted March 2015

Climate Action Plan (CAP) Framework

- High level strategic plan
- Requires periodic updates
- Each action requires further analysis and vetting

[Fcgov.com/climateprotection](http://fcgov.com/climateprotection)

NEW Buildings

- Drive incrementally downward to net zero energy



EXISTING Buildings

- Increase efficiency of existing buildings (codes, incentives)



TRANSPORTATION (25% of emissions)



- More Fuel Efficient & Electric Vehicles
- Increase Multi-Modal Transportation

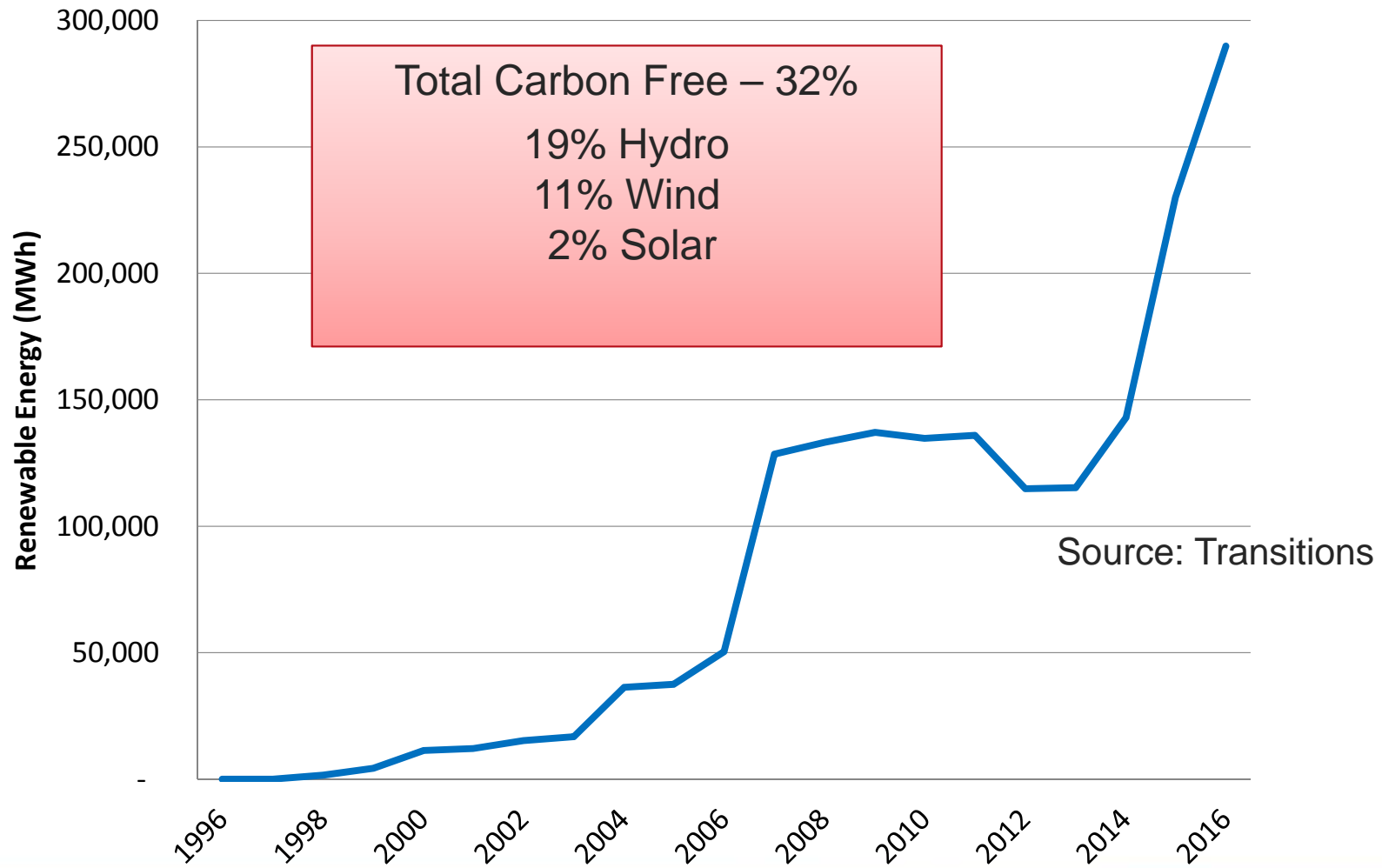


ENERGY SUPPLY

- Advance Utility Scale Renewable Energy Supply
- Advance Residential and Commercial Solar Adoption
- Shift Heating Loads to Biofuels, Geothermal, and Electrification



Platte River Current Wind and Solar Supply Trend



RECYCLE

METAL CANS & GLASS



PLASTIC BOTTLES, TUBS, JUGS & JARS



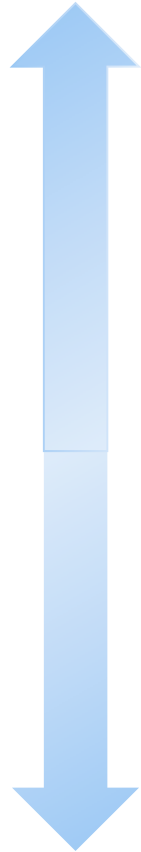
CONTAINERS & CARTONS



PAPER & CARDBOARD



- Outreach/education
- Organics - Food scraps and yard waste
- Provide recycling to all multi-family residents and businesses
- Open expanded Community Recycling Center



Municipal financing
Direct borrowing
New revenue streams
Vendor financing
Public-private partnerships
Federal funding program / grant monies
Create "Green Bank" to co-fund investments
Foundation/not-for-profits pool of capital
Sales of advertising/naming rights
Venture fund
Carbon tax or fee

City of Fort Collins

- No significant adverse impact on the City's balance sheet
- No adverse impact on the City's credit rating
- The City's investment should catalyze investment in strategies by end-users and the third parties

Consumers / End Users

Businesses / End Users

Private/Third Party Sources of Capital





- Municipal Electric Utility
- Partnerships
- Experience with Energy Innovation
- Platinum Bike Friendly Community

- How to converge finance and implementation in a systems approach which the community will endorse and has manageable risk?
- Building support for community members to embrace and adopt the actions

Question for us?



Questions for you

- What are the biggest **Barriers** the City needs to address to advance CAP strategies?
- What are the biggest **Opportunities** Fort Collins has from advancing CAP strategies?
- How should we best frame CAP Strategies? (Which words resonate?)
- What information do you most want to know now?
- Who would you select as the best (top 1-2) sources for climate change information?
- Which avenues are best (top 2) to reach you with information about CAP strategies?

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