



PARTNERS IN ENERGY
An Xcel Energy Community Collaboration

Renewable Energy Action Plan

Steering Committee Workshop #4
September 19, 2019

WELCOME & ORIENTATION



Agenda

WELCOME & ORIENTATION

5 min	Welcome and Workshop Recap
5 min	Process Recap and Goals for Today

NEAR TERM STRATEGIES

45 min	Review and Revise Strategy Goals and Metrics
10 min	Share out with Full Group

BREAK

LONG TERM STRATEGIES

30 min	Activity: Building Blocks for Long Term Strategies
10 min	Share out with Full Group
5 min	Next Steps & Wrap Up



Public Art Engagement

- Public shares how they would take action related to the REAP plan/2050 goals
- Check it out October 1st – 8th in Haymarket Plaza and tell others to share!



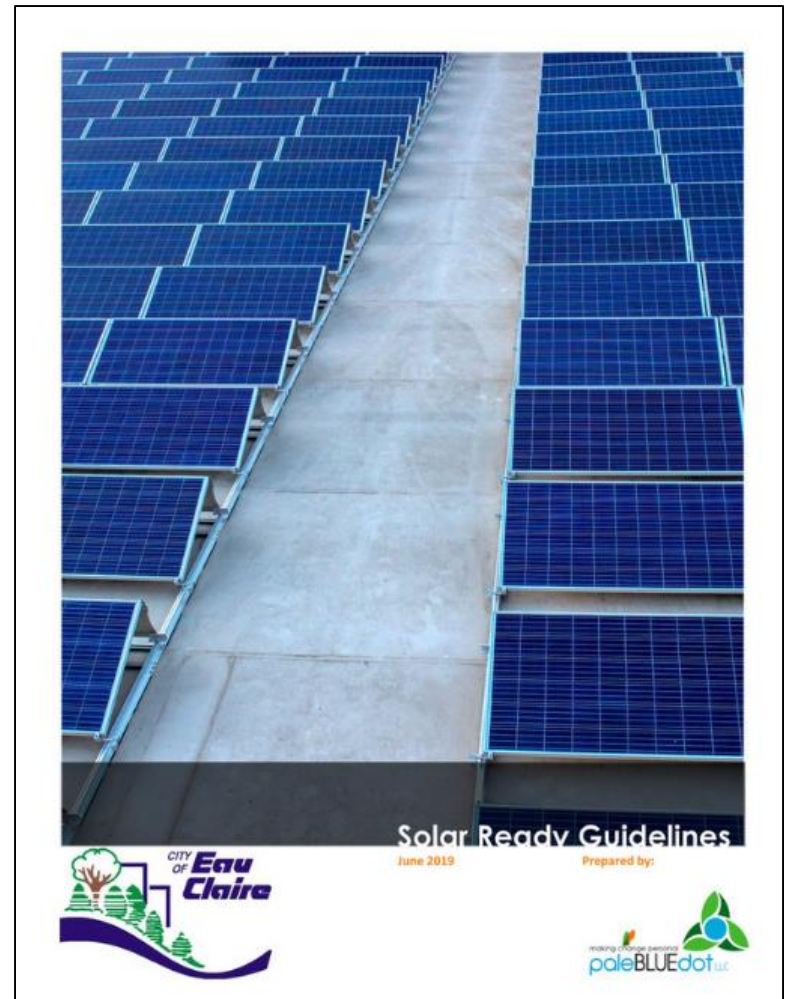
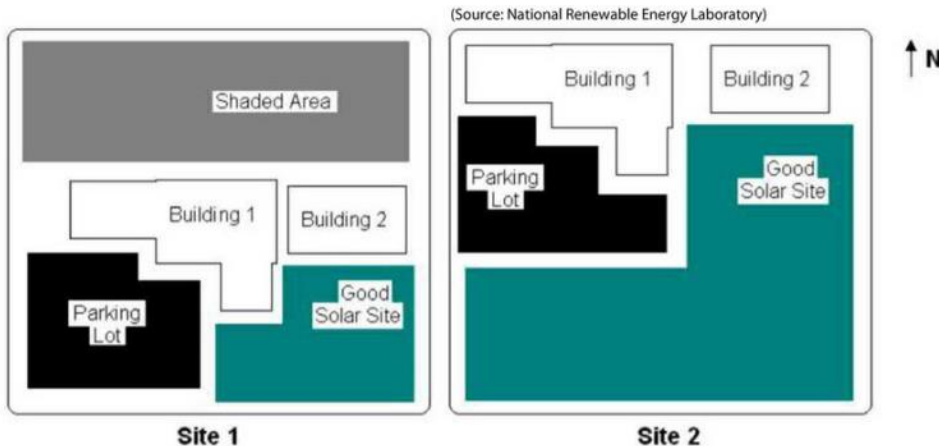
Artist Dez Lezotte



Progress on Action Sub-Plans

- **Net Zero Energy Building Guide**

- Public feedback survey closed
- Successful community input meeting
- Drafted solar-ready checklist
- Drafting guide sections
- December draft finalized



Progress on Action Sub-Plans

• Electric Vehicle Roadmap

- Working strategically with Xcel
- Xcel Toolkit
- Possible refining baseline VMT & forecasting EV growth
- Focus on municipal fleet & public infrastructure (fold in REAP ideas)
- Two upcoming workshops
- December draft finalized



Solarize Eau Claire Status

- Local group purchasing solar buy
- 11 solar power edu. hours complete
- Next 9/23 – 9/24 at CVTC Energy Center, Eau Claire and Altoona libraries
- Free Site Assessments
- Contracts signed by end of October
- <https://www.growsolar.org/eauclaire/>



ABOUT THE PROGRAM



SIGN UP



SOLARIZE EAU CLAIRE IS A GROUP PURCHASING PROGRAM FOR RESIDENTIAL & COMMERCIAL SOLAR.

BROUGHT TO YOU BY

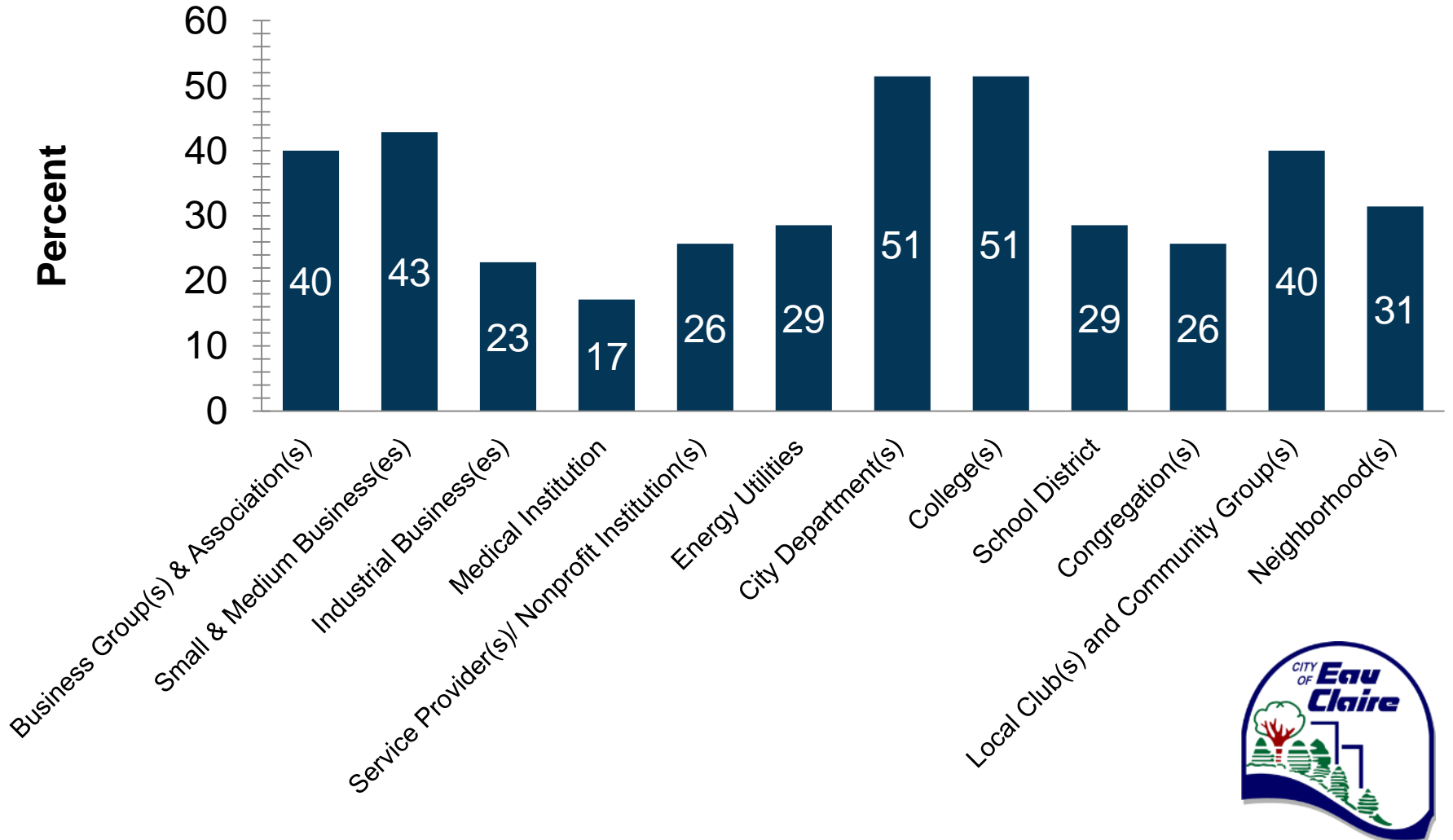


PLANNING PROCESS RECAP



Intro Survey

6. Check all the entities that you have connections to in Eau Claire.

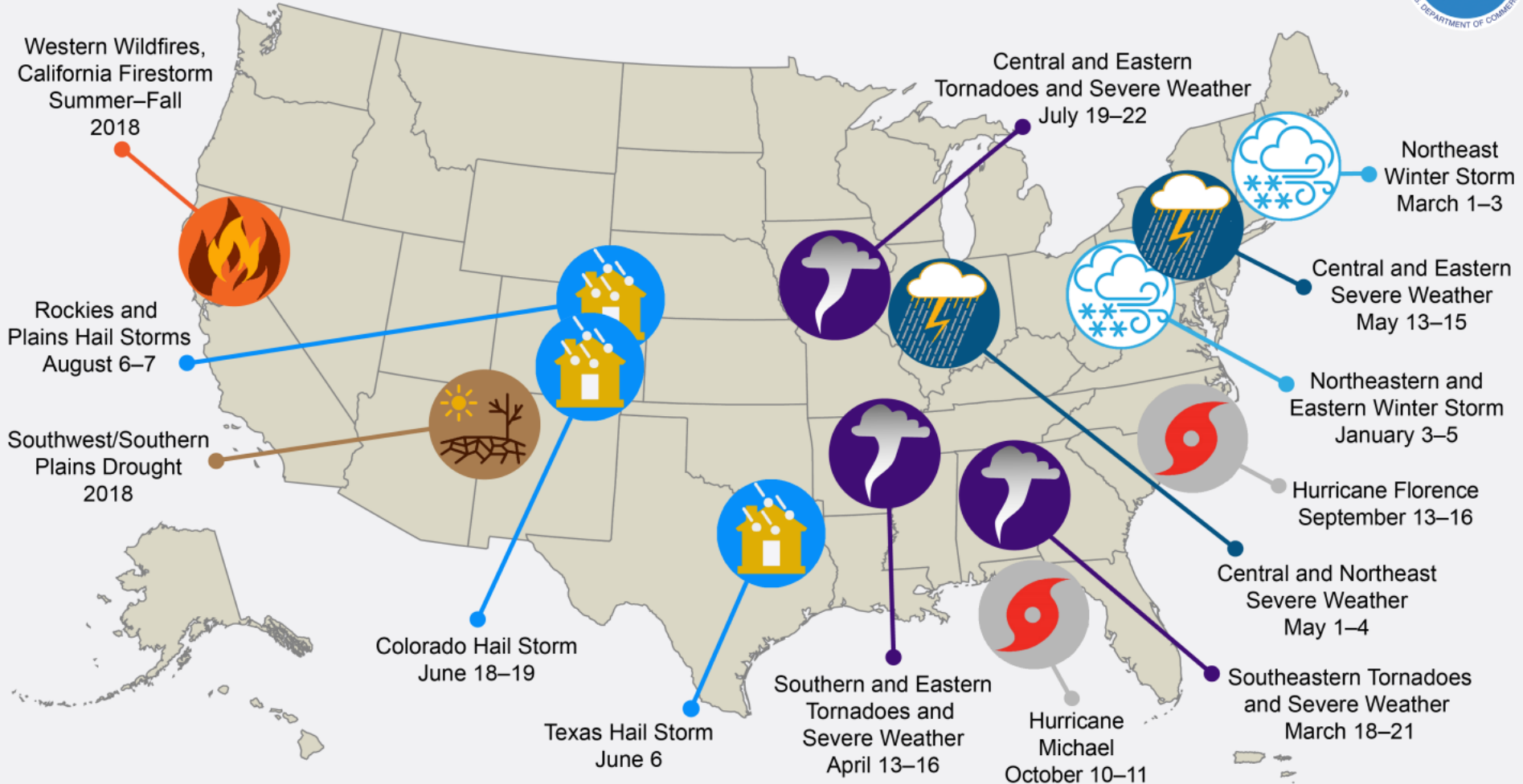


Why We are Here



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U.S. 2018 Billion-Dollar Weather and Climate Disasters



This map denotes the approximate location for each of the 14 separate billion-dollar weather and climate disasters that impacted the United States during 2018.

REAP Vision Statement

Eau Claire's Renewable Energy Action Plan will be guided by an **evidence-based, transparent, equitable, and inclusive process** to meet the goals of **100% renewable energy and carbon neutrality by 2050.**

These ongoing efforts will strengthen our leadership in sustainability and renewable energy development for generations to come.



REAP Guiding Principles

Equity and Inclusiveness

Our work will engage and support the entire community, increasing benefits for under-resourced populations

Economic Development

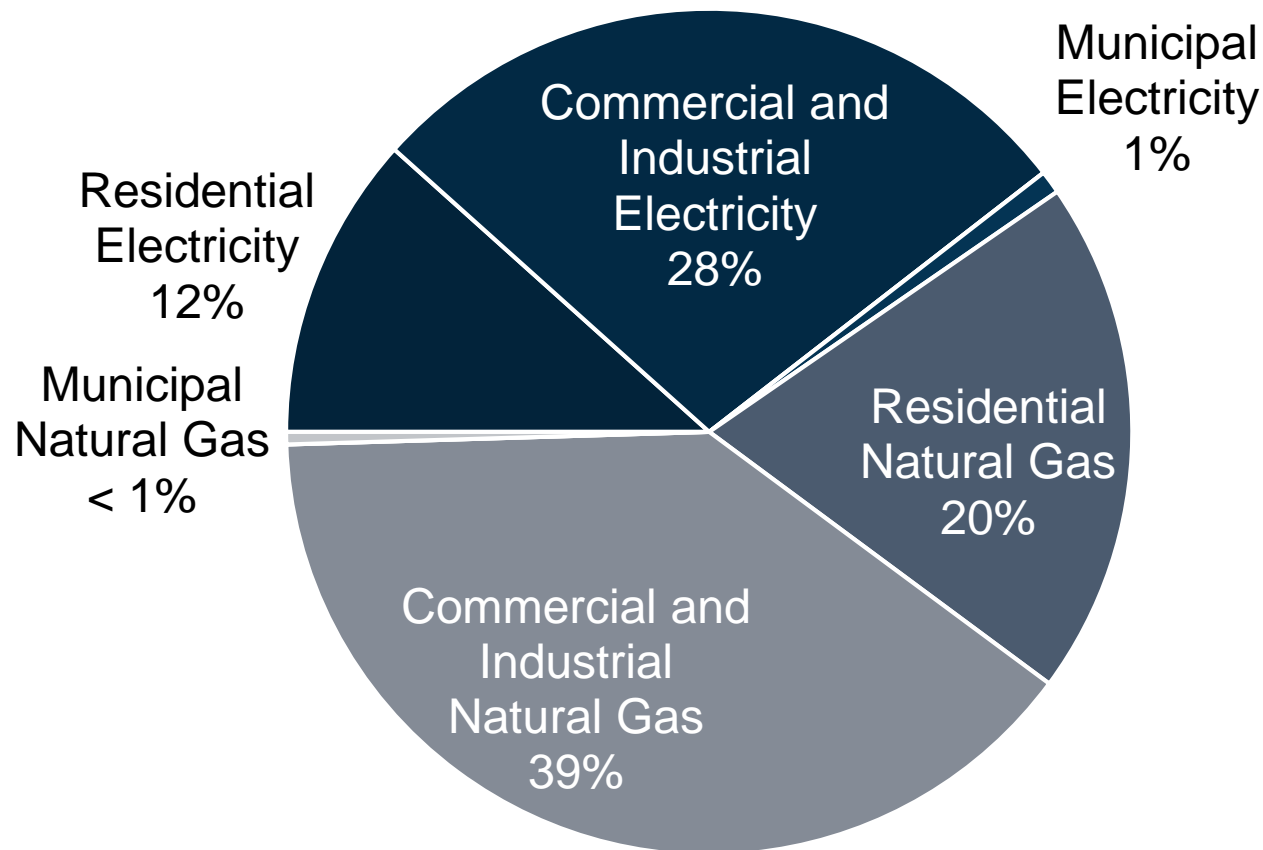
We will develop and implement ideas that maximize community investment and local economic opportunity

Ecosystem Stewardship

We will preserve, protect, and enhance the natural world around us, for our benefit and for generations to come



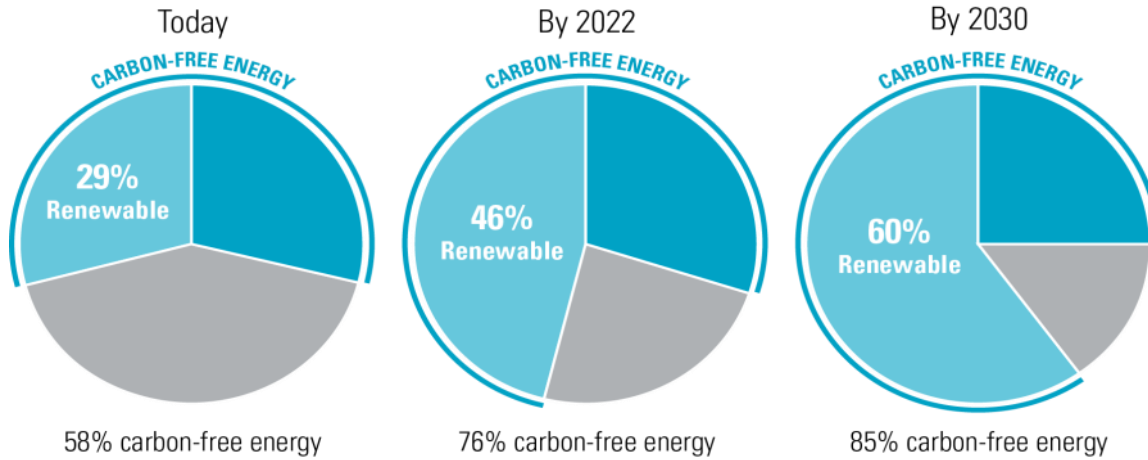
Total Energy Consumption (2018)




Total MMBtu = 7,433,650



Existing Resources

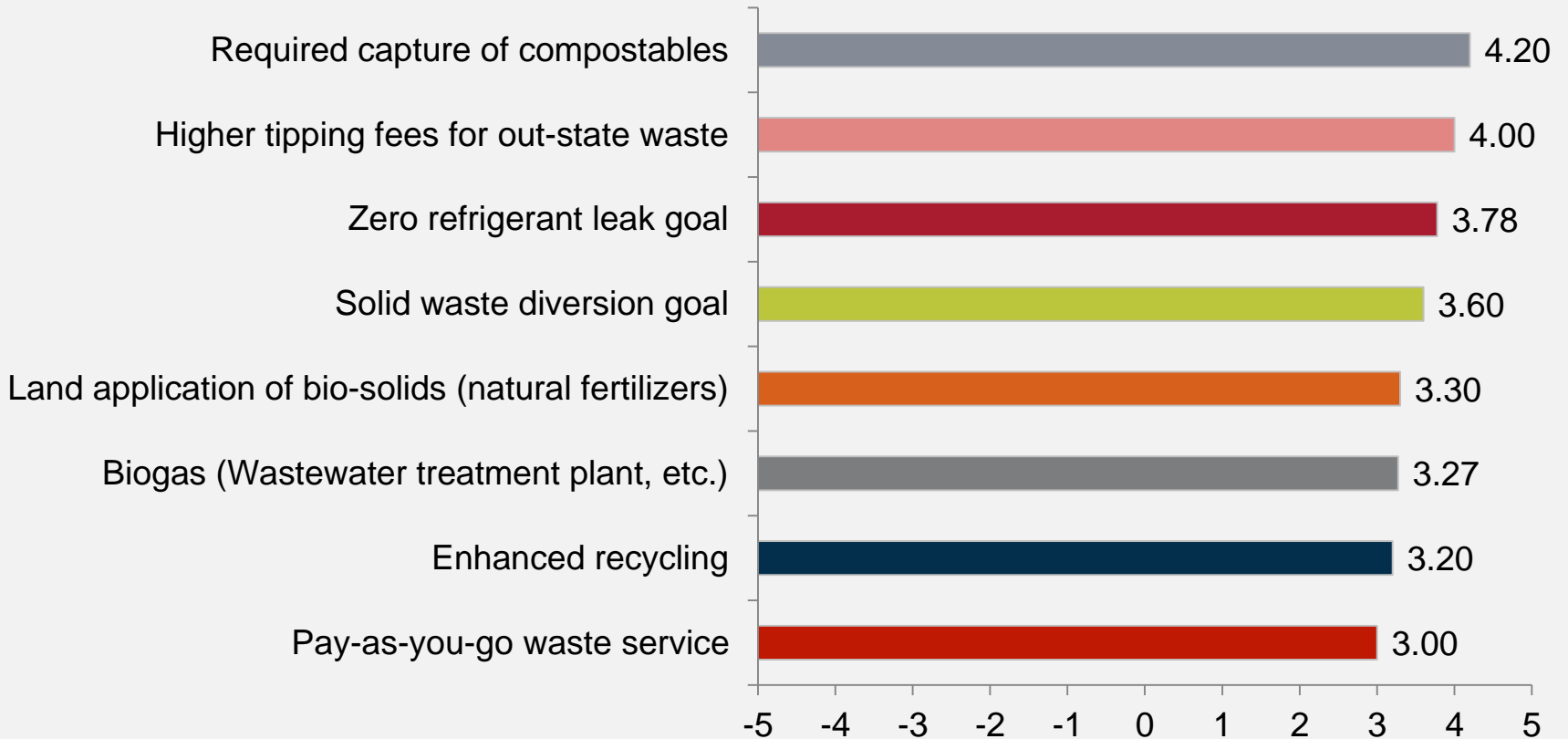


Eau Claire Energy Cooperative

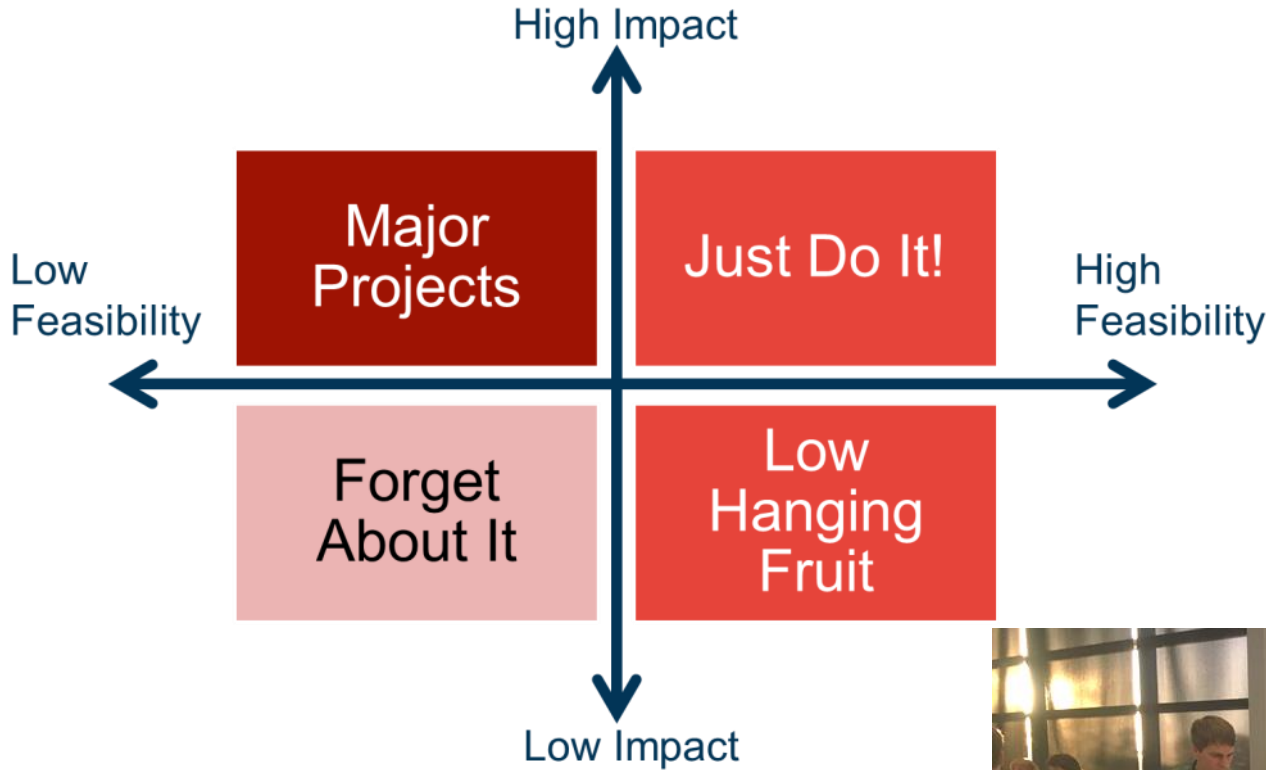
Your Touchstone Energy® Partner 



Waste Management

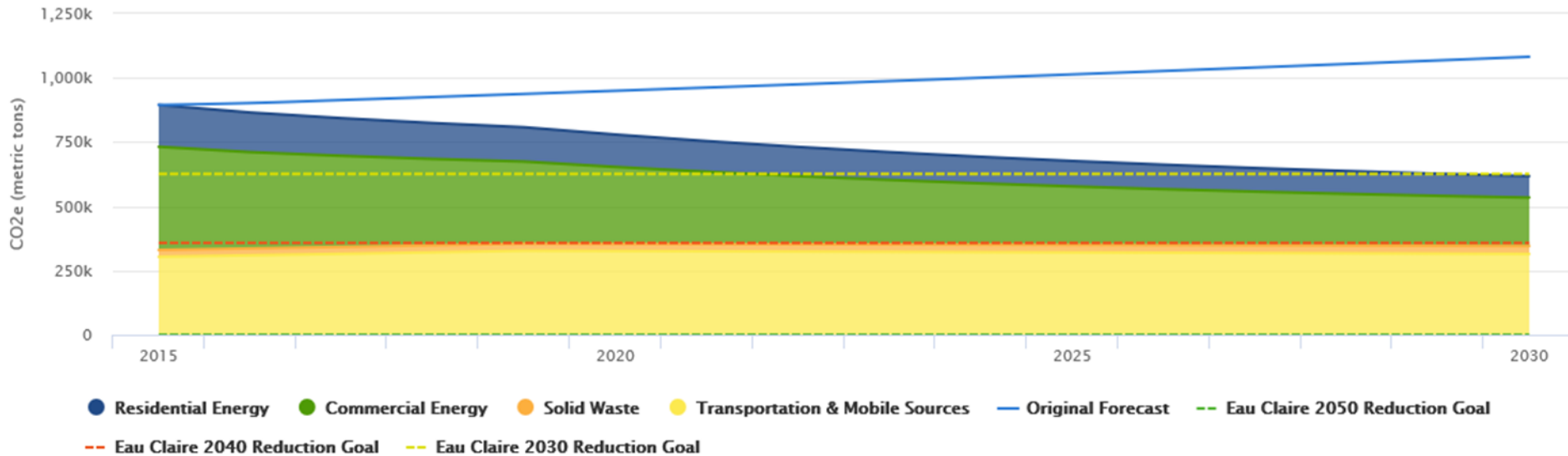


Impact and Feasibility



80% Carbon Free Electricity

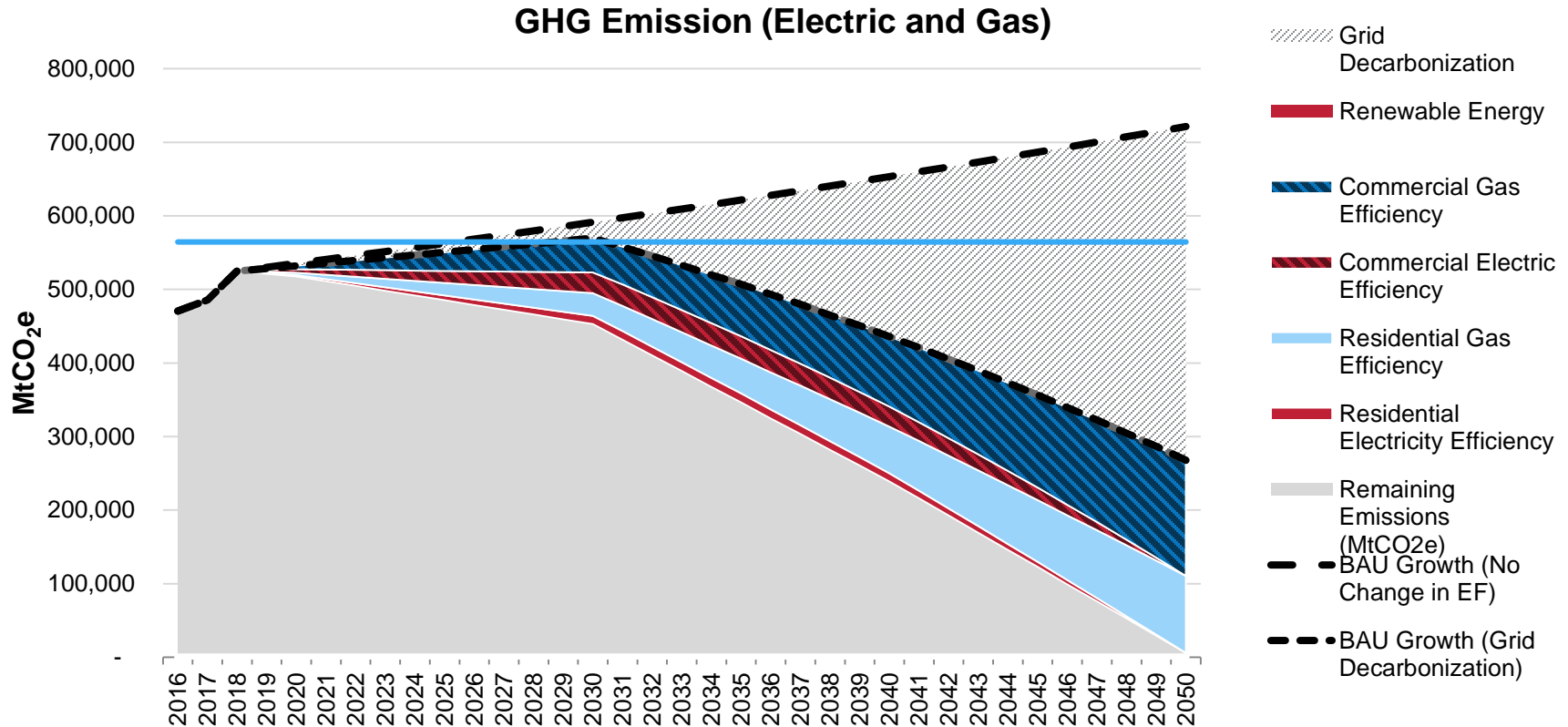
Projected CO₂e Values With Reductions Applied



- We are assuming that a from our baseline of 2015 out to 2030 we will gradually reach 80% carbon free electricity across residential and commercial sectors.



Commercial and Residential



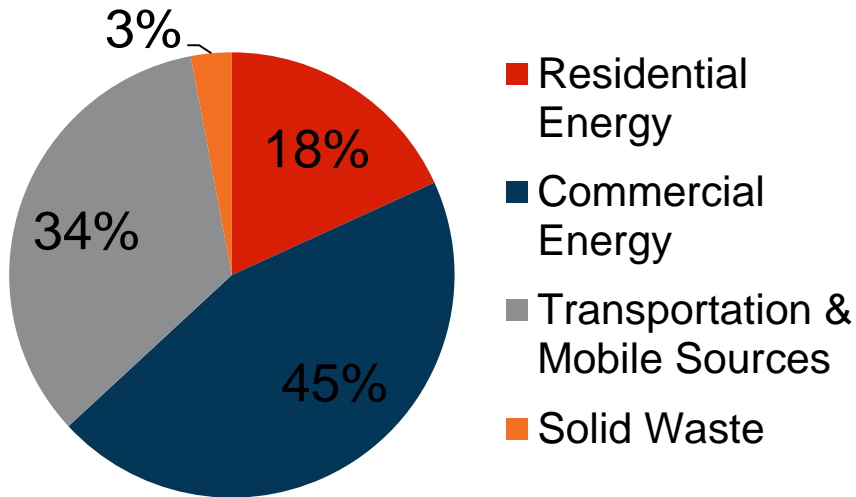
Notes

- 1% annual growth across all sectors and sources
- Goal of Carbon Neutrality by 2050
- Assumes electricity use will remain flat, and Gas use will decrease annually to meet the reduction targets, incl. zero use by 2050
- Grid Decarbonization refers to the decrease in carbon intensity of the electricity only, using Xcel Energy's Upper-Midwest goals

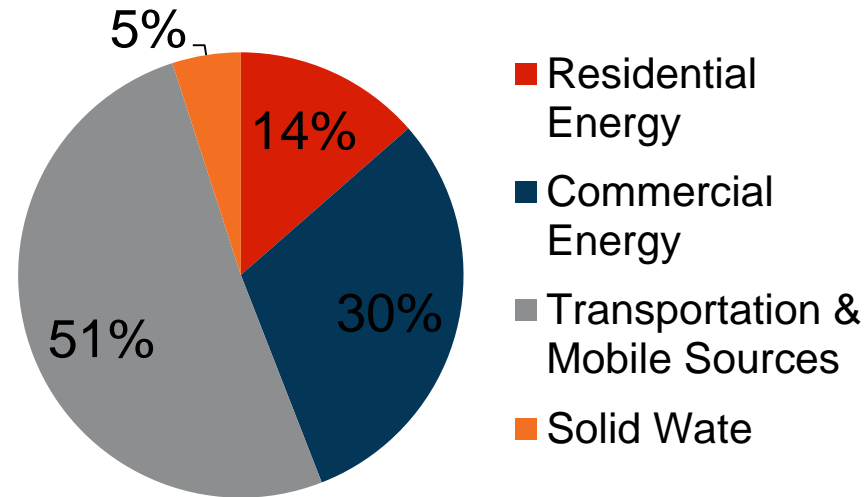


Sector Changes in Carbon Footprint Based on Scenario

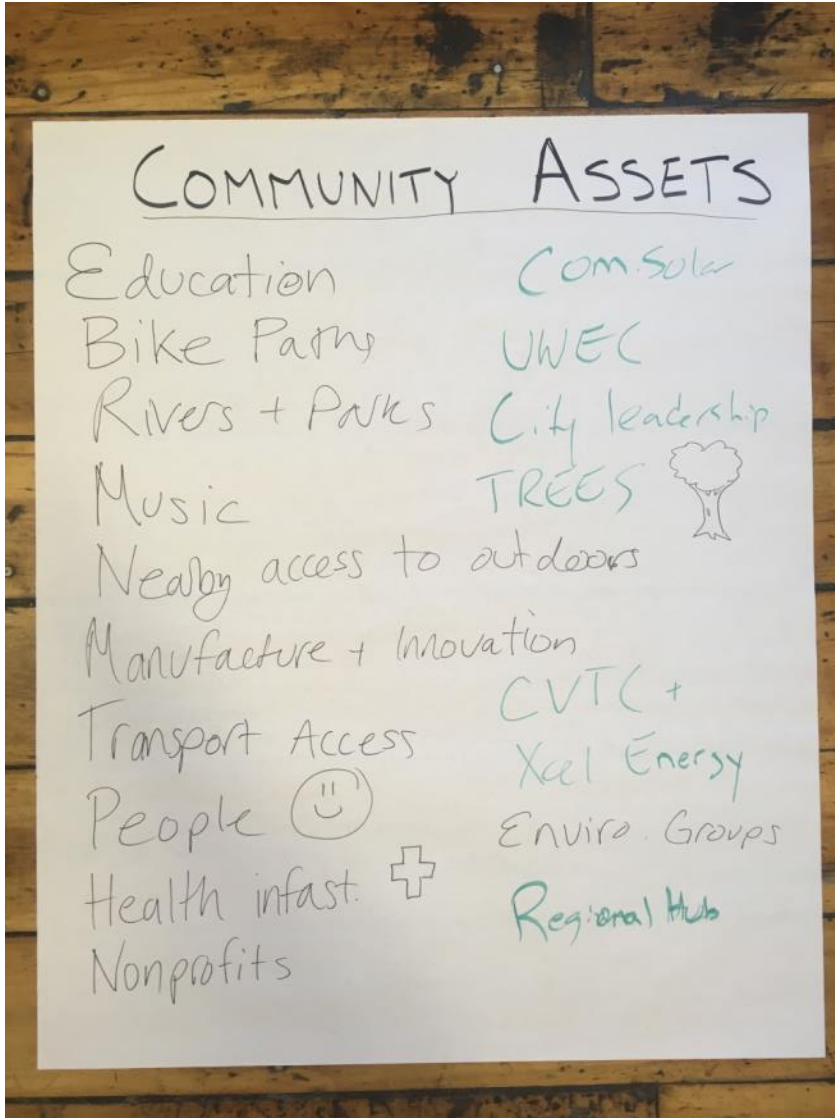
2015 Emissions
% by Sector



2030 Emissions
% by Sector



Develop and Revise Tactics



Eau Claire Renewable Energy Action Plan

Strategies and Draft Tactics

Sent to Renewable Energy Action Team Steering Committee for Review on 8/15/19

Updated with Renewable Energy Action Team Steering Committee Comments on 9/10/19

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Plan Development Steps

1. Anchoring

2. Baseline

3. Vision

5. Draft Goals

4. Focus Areas

6. Diverging Strategies

7. Converging Strategies

8. Goal Refinement

9. Action Planning

10. Plan Finalization

11. Launch



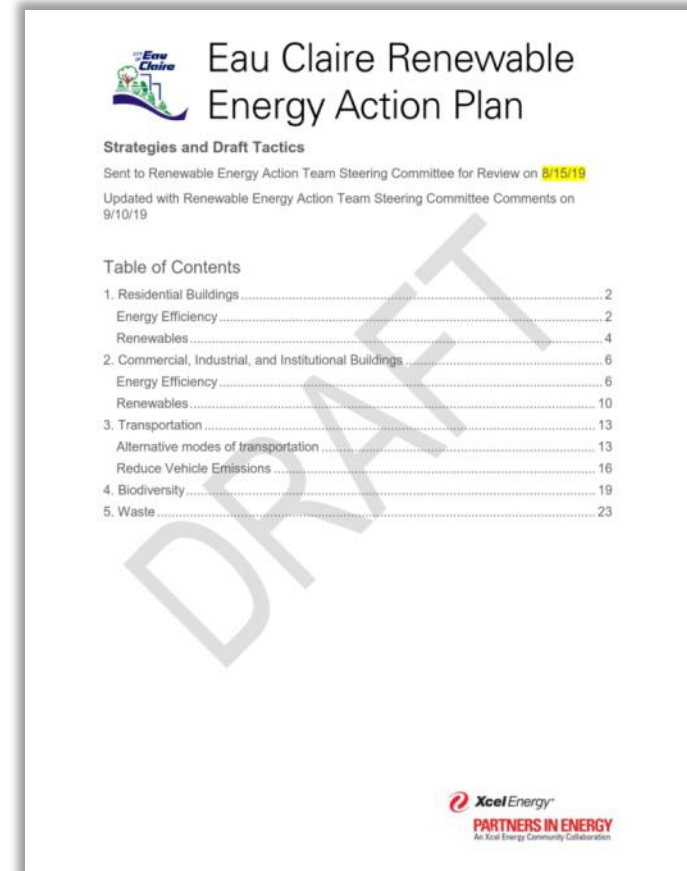
NEAR TERM STRATEGIES



Feedback From Strategy Review

Some feedback we heard:

- Adding additional resources to explore
 - Especially tying into existing resources such as **Focus on Energy and the utilities**
- Flipping energy efficiency and renewable energy to **“Complete efficiency first”**
- Softening language in some areas **“incentivize”**
- Feedback regarding the **feasibility** of some targets and tactics
- Questions regarding the specifics of a **green business recognition** program
- Ideas that tie in with **longer-term strategies**
- Interest in a **“Green Jobs”** component



Summary of Near Term Strategies

SECTOR	# Strategies	Status
Residential Buildings	8 Strategies	Good detail – increase program integration
Commercial, Industrial, Institutional Buildings	13 Strategies	Good detail – increase program integration
Transportation	16 Strategies	Reorganized into more manageable sections
Biodiversity	10 Strategies	Decisions on near-term vs long-term
Waste	6 Strategies	Decisions on near-term vs long-term



Small Group Activity

2. Commercial, Industrial, and Institutional Buildings

Energy Efficiency Strategies **2030 Targets: Achieve 3% energy savings per year in electricity and 1% savings per year in natural gas**

2a. Increase customer participation in energy audits and other energy efficiency incentive programs	Goal: <i>150 participants per year</i>	Major Milestones in Years 1-2: <i>Develop and promote 2 community success stories</i>
	Metric: <i>Number of Participants</i>	

2b. Increase the number of businesses who benchmark their annual energy use	Goal: <i>All municipal buildings and 50 commercial buildings benchmark annual energy use; 25 commercial buildings share results</i>	Major Milestones in Years 1-2:
	Metric: <i>Number of buildings</i>	

2c. Establish Awareness of HVAC commissioning as low-cost energy efficiency action	Goal: <i>50% of eligible businesses have considered or participated in HVAC commissioning</i>	Major Milestones in Years 1-2:
	Metric: <i>Promotions of HVAC commissioning</i>	

Goals, Metrics, and Milestones

GOAL

Specific, measurable, and time-bound

- *e.g. 100 income qualified households participate per year*

METRIC

Something trackable related to the goal

- *e.g. number of income-qualified households*

MILESTONE

Major accomplishments along the way

- *e.g. Identify two community outreach partners*



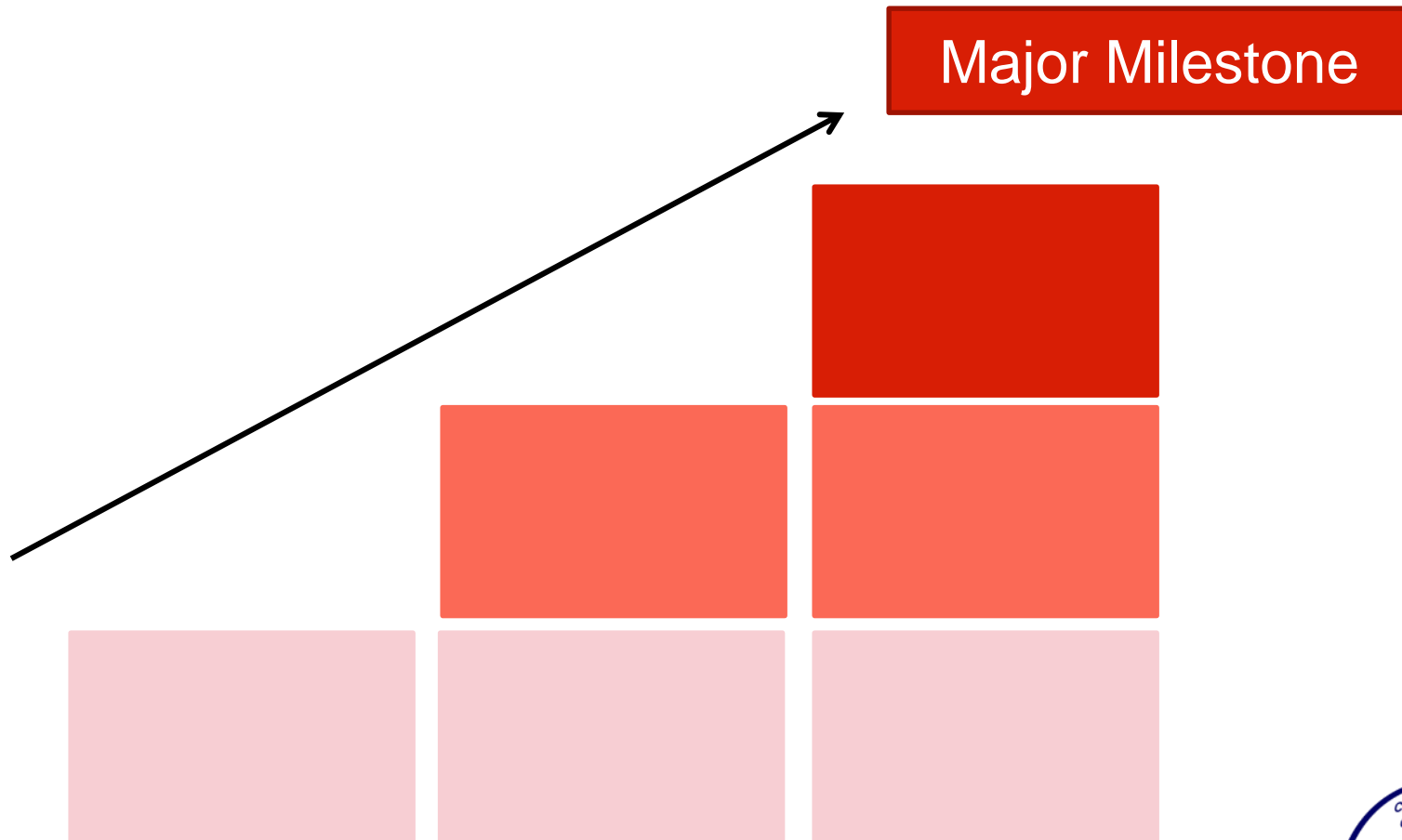
BREAK



LONG TERM STRATEGIES




Building Blocks Activity



Building Block Activity

1. Choose a strategy
2. Identify Present State (what's currently happening)
3. Identify Gaps (why is this lower feasibility?)
4. Lay down the “Building Blocks” to determine what needs to happen to accomplish the strategy
 1. What policies must be in place?
 2. What infrastructure do we need?
 3. Are there pilot programs or demonstrations projects?

Present state	Gaps	Building Blocks	Strategy / Desired Future
High upfront costs Technology not widely adopted	Lack of local projects to increase confidence in investment	Work with partners to develop demonstration projects at local institutions	Increase ground-source heat and geothermal in commercial buildings



WRAP UP & NEXT STEPS



Anticipated Schedule

- **Tuesday, October 29th**
 - Final REAP workshop to review rough draft
 - 6:30 p.m. back at CVTC's Energy Edu. Center
- **November 10th** – Draft plan substantially completed
- **Approvals**
 - December or January – Sustainability Advisory Committee vote
 - December or January – Plan Commission vote
 - December or January – City Council vote

