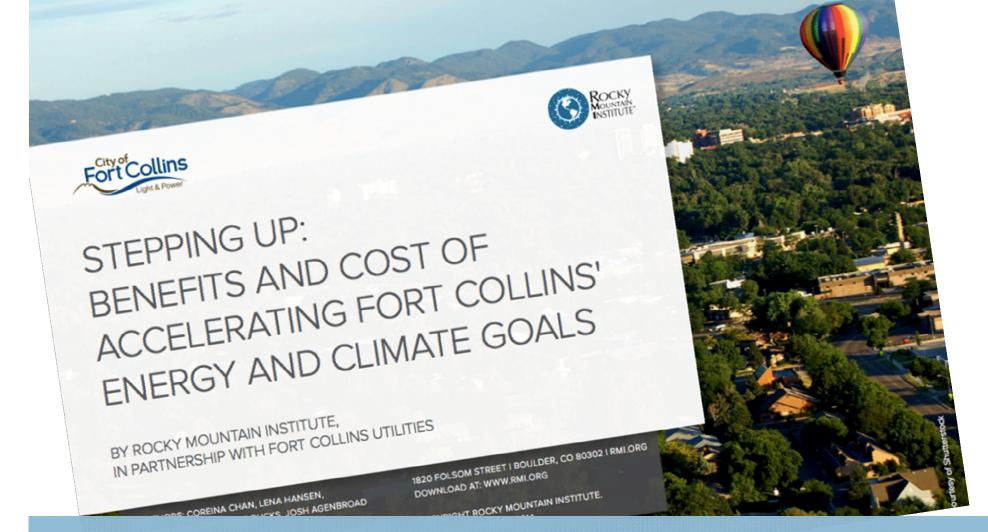
COREINA CHAN, MANAGER

A State St

JUNE 12, 2014

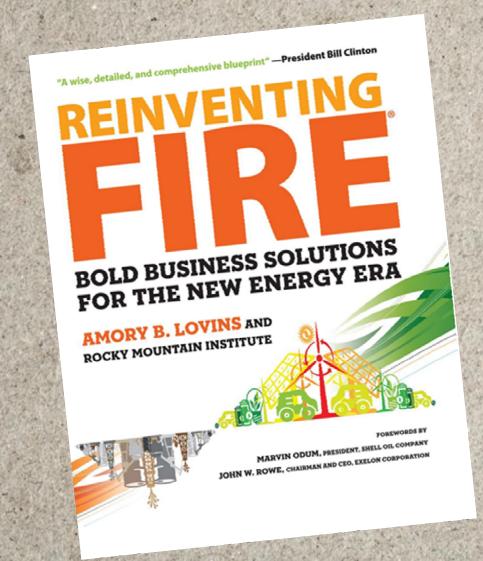








A NATIONAL LEVEL LOOK AT WHERE OUR ENERGY FUTURE COULD BE HEADED



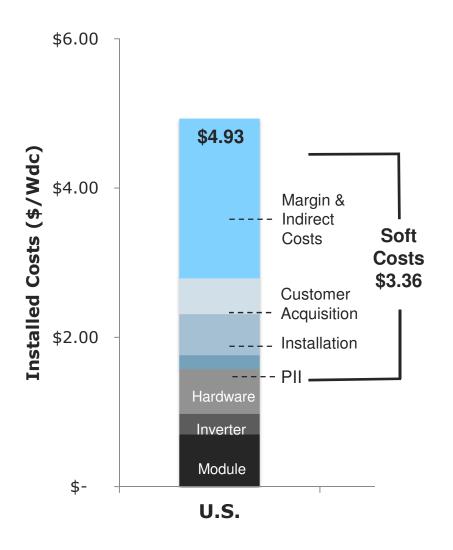
CHANGING THE WORLD FROM THE BOTTOM UP



NEW TECHNOLOGY DRIVES NEW OPPORTUNITY



FALLING PV SOFT COSTS: US, GERMANY, AUSTRALIA



FORT COLLINS CAN CAPTURE SIGNIFICANT BENEFITS BY ADVANCING ITS ENERGY GOALS



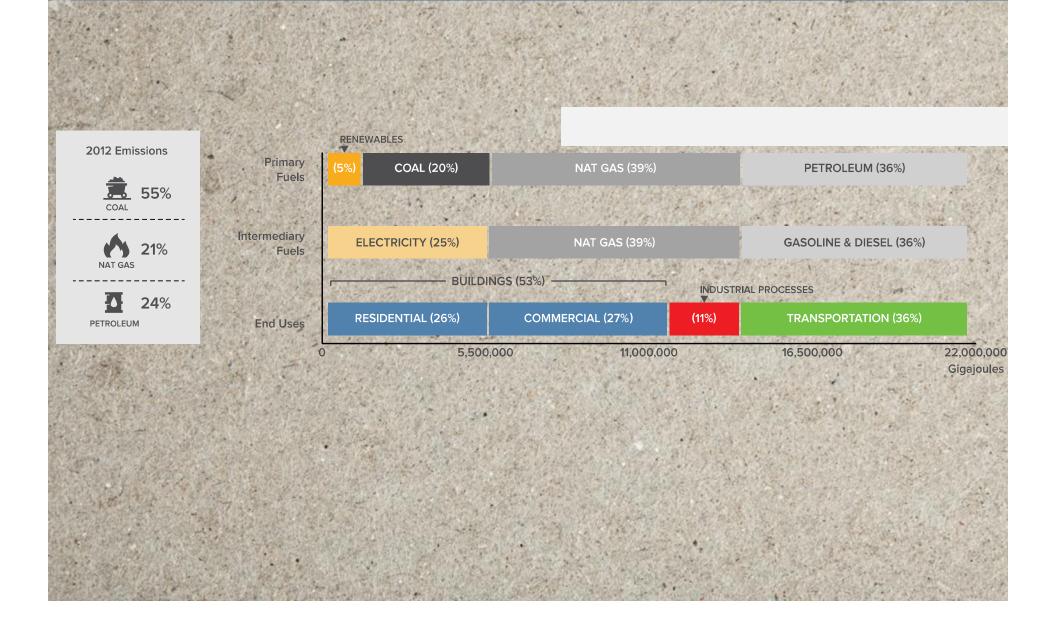


STEPPING UP: BENEFITS AND COST OF ACCELERATING FORT COLLINS' ENERGY AND CLIMATE GOALS

BY ROCKY MOUNTAIN INSTITUTE, IN PARTNERSHIP WITH FORT COLLINS UTILITIES

AUTHORS: COREINA CHAN, LENA HANSEN, AUTHORS: COREINA CHAN, LENA HANSEN, GREG RUCKS, JOSH AGENBROAD 1820 FOLSOM STREET I BOULDER, CO 80302 | RMI.ORG DOWNLOAD AT: WWW.RMI.ORG COPYRIGHT ROCKY MOUNTAIN INSTITUTE.

FORT COLLINS' ENERGY USE - 2012



RMI'S ANALYSIS APPROACH

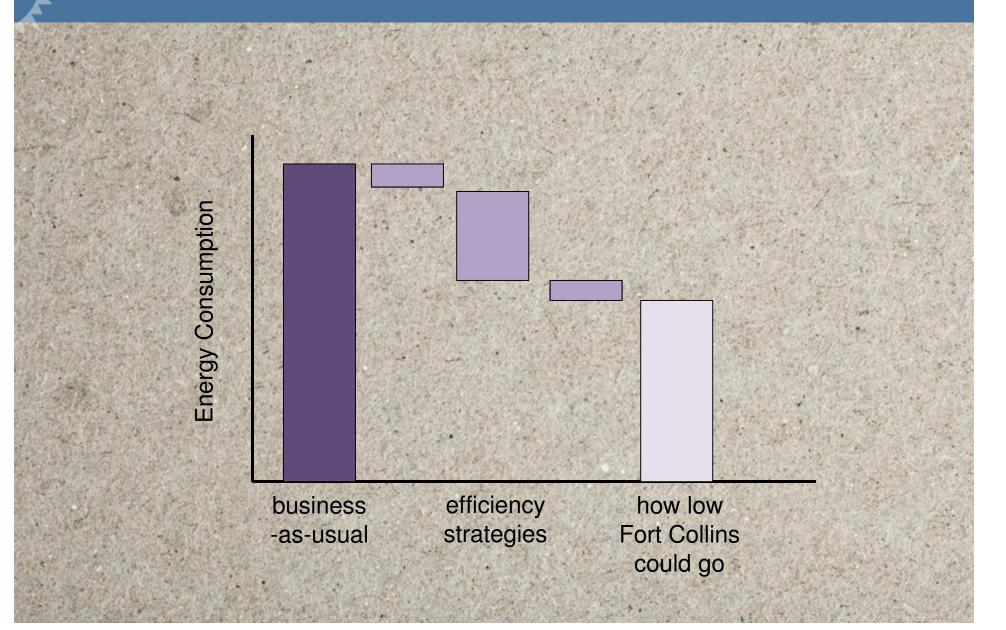
Focus on three key questions:

- 1. How much can building efficiency be improved?
- 2. How much of Fort Collins' electricity supply can be derived from clean local resources?
- 3. How much can the city reduce fossil fuel use from transportation?

Analysis methods drawn from:

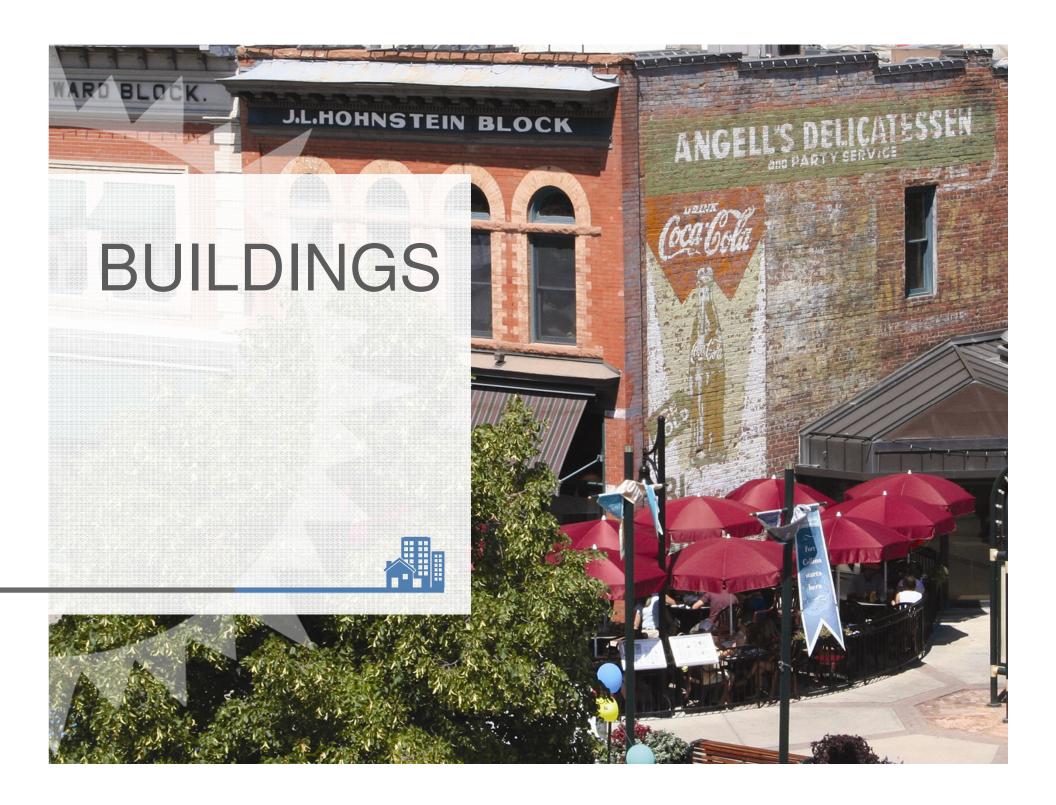
- Reinventing Fire, published studies and analyses
- Adapted to Fort Collins with data and assessments provided by Fort Collins Utilities and the City of Fort Collins
- RMI's research and advisory work with cities and states, universities, building portfolio owners, and industrial partners

RMI'S ANALYSIS APPROACH

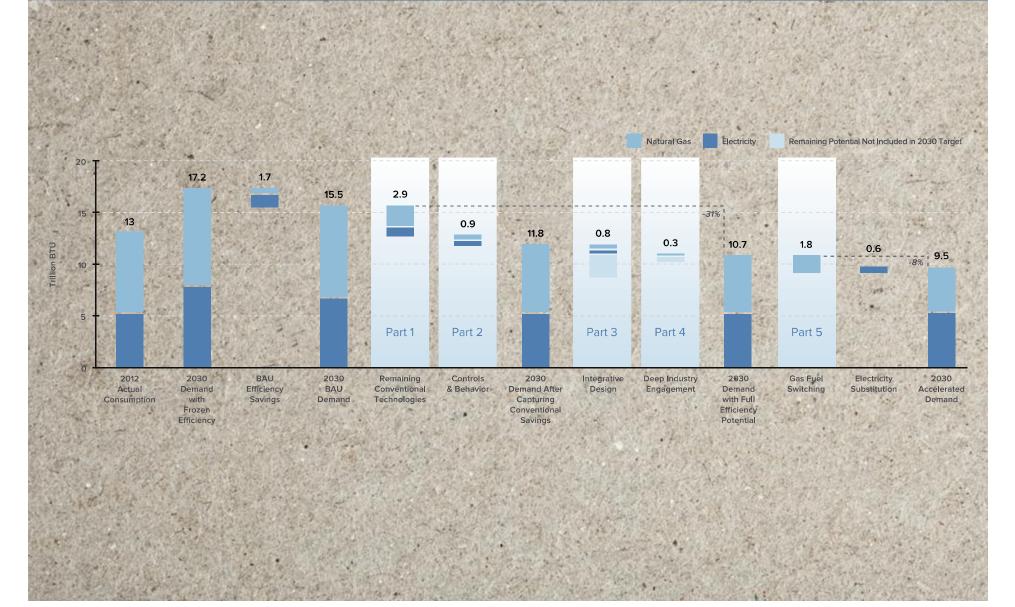


ASSUMPTIONS

- Currently available technologies
 - Industry-accepted cost projections
- Implementation rates observed in best-of-class
- Customized to Fort Collins' infrastructure and demographics

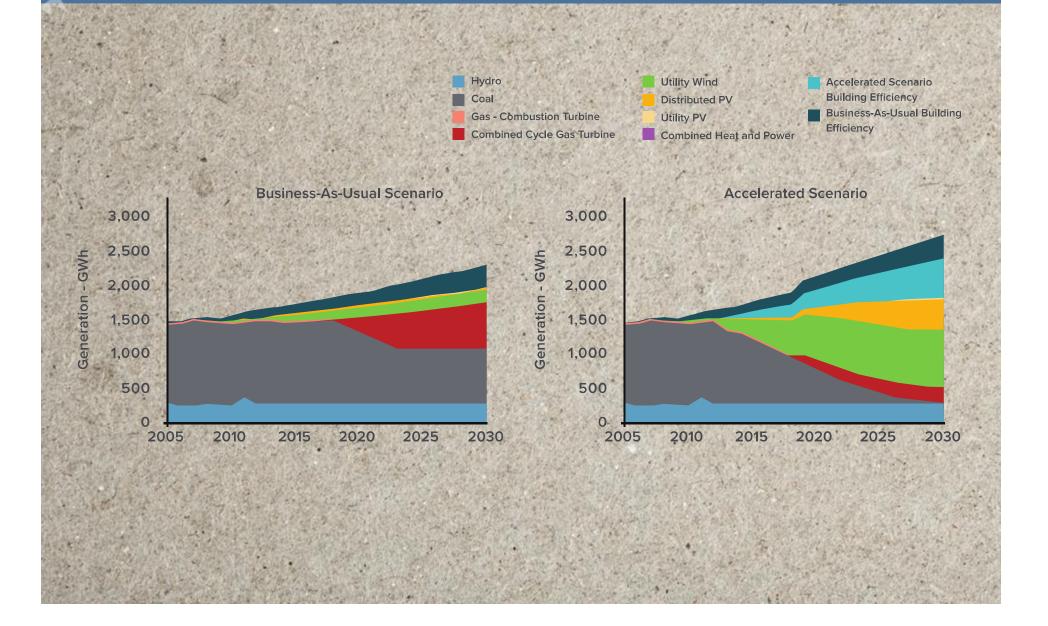


31% IMPROVEMENT IN EFFICIENCY IN BUILDINGS

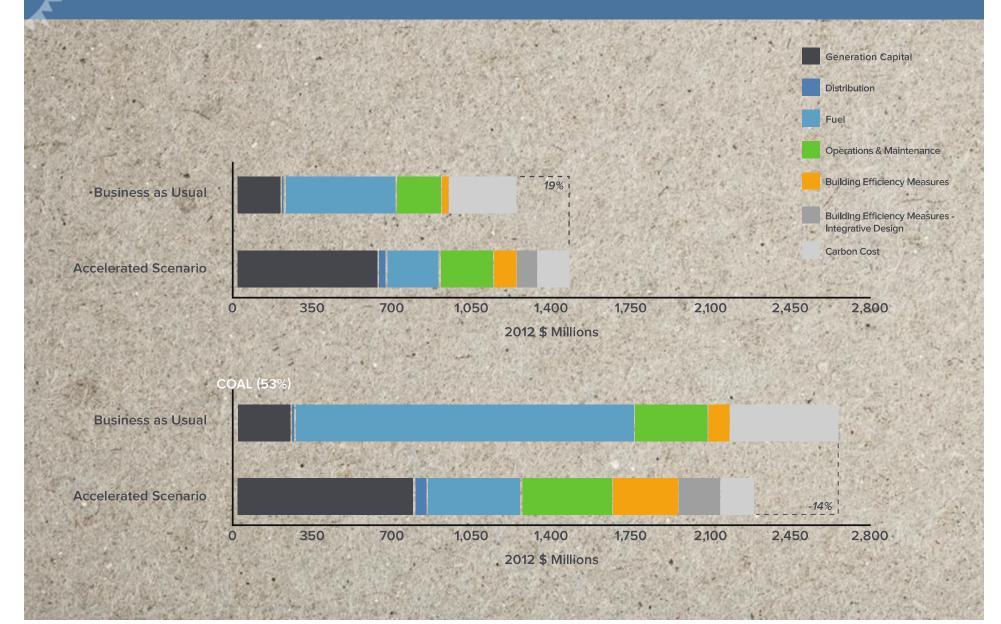


ELECTRICITY

NET ZERO ELECTRICITY SYSTEM



NET IMPACT ON ELECTRICITY COSTS AND RISKS



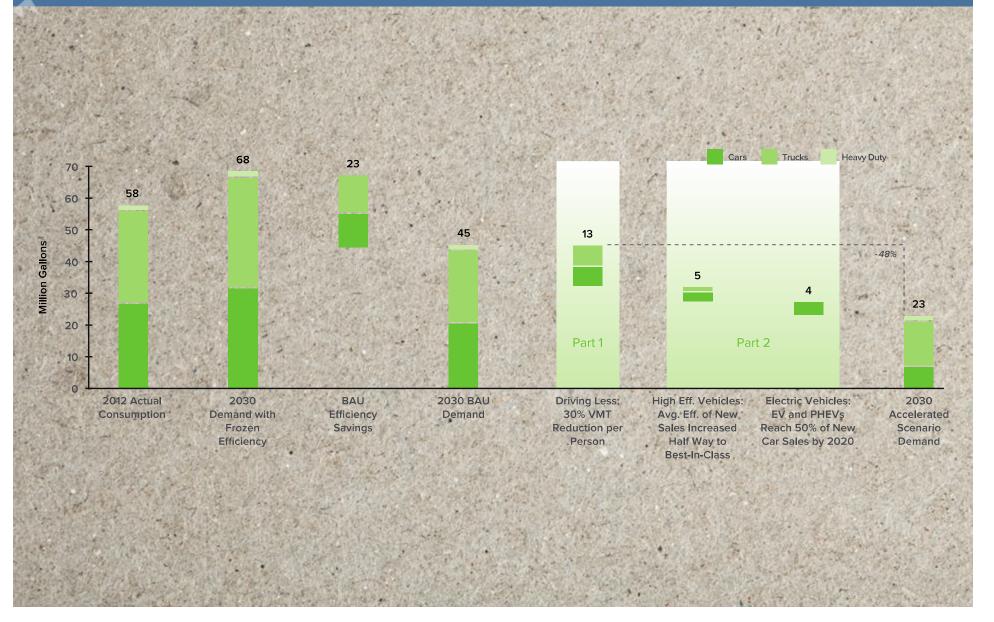




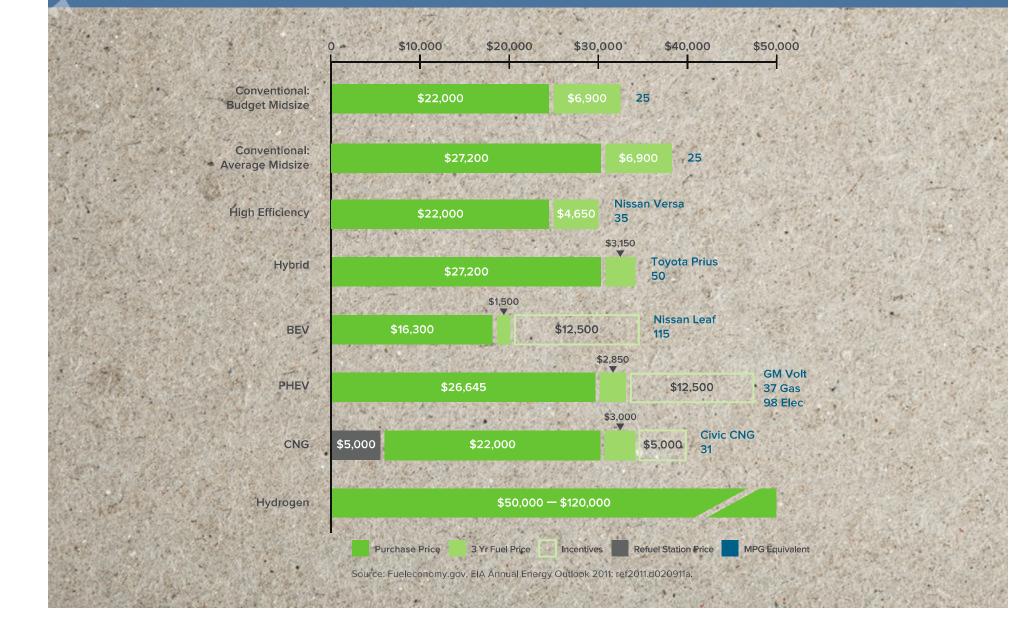




48% ENERGY USE REDUCTION IN TRANSPORTATION



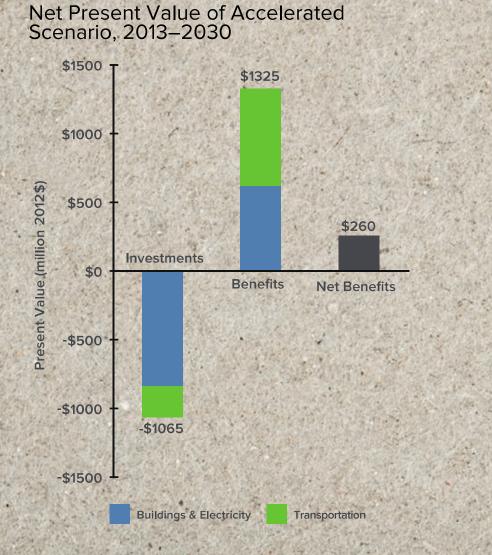
EFFICIENT AND ELECTRIC VEHICLE OPTIONS



WHAT DOES IT ADD UP TO?

SUMMARY OF KEY FINDINGS

- Accelerate carbon goals by 20 years
- Net benefit of \$260 million for the community, while reducing CO2 emissions by 15 million metric tons.



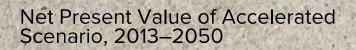
NET PRESENT VALUE COSTS AND BENEFITS

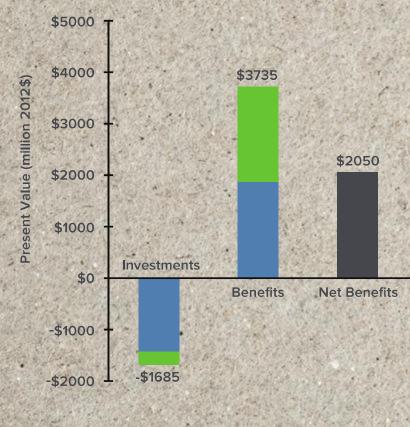
Reduces cash outflows to pay for coal and natural gas fuel by \$16M / yr.

Raises local investment in efficiency, and local energy assets by \$20M / yr

Generates > 400 jobs over the entire period from 2013-2030.

- NET PRESENT VALUE COSTS AND BENEFITS TO 2050





Buildings & Electricity

Transportation

Walker, there is no path The path is made by walking

—Antonio Machado (1875-1939)

HOW CAN THE CAP ENABLE THIS TRANSITION?

- 1. Detailed collaboration with Platte River
- 1. Annual adoption goals and costs

1. Business, financing, and customer adoption models that will attract private capital and drive lower costs

1. Triple bottom line benefits