

# Section 09 **Climate Economy**









### Why Climate Economy Is Important

Climate change and the economy are inexorably linked. Left unabated, the impacts of man-made climate change through the end of this century will cost the United States billions of dollars. According to a 2019 study by two EPA scientists, the difference in economic impact between the mid-range climate model and the high range climate model may account for as much as \$224 billion in economic impact annually by 2090. According to a 2019 World Bank report on trends in carbon pricing, a carbon price range of \$40-\$80 per ton is necessary by 2020 to reach the goals set by the 2015 Paris Agreement, while other studies have placed the full cost of carbon at \$200-\$400 per ton.

### **Climate Action and Economic Development**

Rather than weakening the economy, climate action can support economic development. Transitioning away from fossil fuel use, improvements to public transit systems, and growth of local food industries are all, in part, a transition to local energy and labor sources. These transitions represent opportunities for communities to reduce the community wealth that is being exported and increase the percentage of community wealth that remains in the community in the form of local jobs. Additionally, many of the jobs potentials in Climate Action redirect funds away from less labor intensive (but more material resource intensive) sectors of the economy to support greater overall employment combined with less resource utilization. In general, economic opportunities include:









### **Climate Change Considerations**



In many sectors, climate change will impact water and energy consumption and costs. Extreme weather and increasing variability in temperatures and precipitation may stress transportation systems and fleets. Increasing extreme weather hazards may threaten supply material and product supply chains.

### Opportunities

Climate mitigation strategies like transformation of Albert Lea's energy system, improvements to the energy efficiency of the City's building stock, enhancement of transportation alternatives, and the implementation of goals like tree canopy increases and reduction to impervious surfaces represent opportunities for the development of new businesses and job creation.





### **Equity Considerations**

- Low income individuals in our communities are especially prone to the impacts of climate change and bear a greatly disproportionate share of the costs—including vulnerability to job instability that can be brought about by extreme weather events and other climate change impacts.
- Income inequality is rising in the US, with September 2019 levels being the highest in 50 years—and the impacts of the COVID-19 pandemic have only increased these inequities. High inequality leads to lower life spans, increased instances of mental health issues, and increased obesity rates among other social impacts. Because the impacts and the costs of climate change are disproportionately felt by vulnerable populations and low-income individuals, climate change impacts will exacerbate income inequality in our communities.

### **Strategies Supporting Sector Goals**

As indicated in the introduction, the Climate Action Plan is intended to be a 9 year plan to be updated at the completion of that time. Consequently, the goals and strategies outlined in this section are intended to be achieved by 2030 (or earlier) unless otherwise noted.

Implementation of actions are anticipated to be initiated over 3 phases: phase 1 within 1-2 years, phase 2 within 2-7 years, and phase 3 within 4-8 years of CAP approval. **Strategy CE-1:** Capture local economic potential of climate action.

**Strategy CE-2:** Increase workforce development for the climate economy.

**Strategy CE-3**: Build marketplace climate resilience.

Strategy CE-4: Establish sustainable financing for the City's climate action implementation.

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## **Strategy CE 1:** Capture local economic potential of climate action

	Actions	Implementation
		Phase
CE-1-1	Conduct a Climate Economy Economic Development Assessment to identify econom- ic development potential of climate adaptation, climate mitigation, and energy ac- tion planning.	1
CE-1-2	Establish a Clean Energy business incubator to support the establishment of innova- tive energy efficiency and renewable energy business models within the community.	1
CE-1-3	Leverage Community Development Block Grants from the Department of Housing and Urban Development, or HUD, to invest in resilient and equitable communities	2
CE-1-4	Focus the City's business development efforts on businesses that have lower impacts on natural resources, that are non-polluting, offer or support environmentally sus- tainable goods or services, and/or actively promote telecommuting, alternative work schedules, and alternative transportation modes.	2
CE-1-5	With community stakeholders and partners, conduct a study and host a community conversation to identify threats to current industries, opportunities for new businesses and industries, and areas that need support.	3







# Strategy CE 2:

Increase workforce development for the climate economy.

	Actions	Implementation Phase
CE-2-1	Develop job training programs focused on building resiliency, solar construction, weatherization, etc. Potential example program: Colorado solar training program.	1
CE-2-2	Work with local union hall and Riverland College to ensure that apprenticeship pro- gram includes solar and energy efficiency training.	1
CE-2-3	Explore the development of a job training and entrepreneurial development program similar to Operation Fresh Start. Program to focus on developing green jobs skills within vulnerable and underserved populations in local sustainable agriculture, energy efficiency audits and upgrades, renewable energy, and other skills that support the goals of the CAP. (http://www.operationfreshstart.org/)	-
CE-2-4	Promote alternatives to traditional building demolition such as relocation, decon- struction and salvage. Establish a jobs training program focused on building work- force with deconstruction skills and capacities. Job training program should focus on establishing job skills and placement for low income individuals. See Better Futures Program (https://betterfuturesminnesota.com/services/building-deconstruction/)	2
CE-2-5	Create an intern program similar to the Minnesota GreenCorps internship. Task in- terns with finding resiliency solutions and cost savings. Intern development should focus on increasing community equity (https://www.pca.state.mn.us/waste/ minnesota-greencorps)	2
3	Strategy CE 3: Build marketplace climate resilience.	
	Actions	Implementation
CE-3-1	Conduct a planning effort focused on identifying economic vulnerabilities and oppor- tunities, especially those affecting the city's vulnerable populations. Identify econom ic resilience strategies and strengthen public-private economic communications, es- pecially with targeted group businesses (minority-owned, veteran owned, economi- cally disadvantaged, etc.). Planning effort could be implemented in conjunction with Climate Economy Economic Development Assessment. Possible example process: https://www.eda.gov/ceds/	
CE-3-2	Make sure key business infrastructure is recognized in the City and County's general hazard mitigation plan and emergency response plan	1
CE-3-3	Create an online assessment of business' vulnerability/resiliency, including the fol- lowing topics and content: Potential Climate Impacts and Risks— Climate Resiliency—Energy: efficiency and re- newables—Emergency Response—Zero Waste improvements—Potential Incentives or Tax breaks available.	2







# Strategy CE 4:

Establish sustainable financing for the City's climate action implementation.

	Actions	Implementation
		Phase
CE-4-1	Establish a policy that savings generated by energy efficiency measures and renewa- ble energy installations/agreements for City facilities and operations shall be used as a fund to support future energy efficiency and renewable energy projects in support of the CAP goals.	1
CE-4-2	Explore opportunities to utilize Tax increment Financing (TIF) to incentivize Mitiga- tion and Adaptation actions. Options include the establishment of a Renewable En- ergy TIF district incentivizing on-site renewable energy utilization or a Net Zero TIF funding mechanism incentivizing high energy efficiency and Net Zero buildings.	1
CE-4-3	Explore the "green marketplace" utilization potential of the city's urban forest with all revenue being invested in Climate Action Plan strategies. Strategies may include sale of downed and select removed trees through marketplaces such as the Urban Wood Network (http://urbanwoodnetwork.org/members), as well as exploring lease of benefits of select city owned tree stock such as "sugaring" rights of maple trees. Utilization should be prioritized to maintain quality of the city's urban forest and quality of life benefits.	1
CE-4-4	Establish a policy that designates City Electric and Natural Gas Franchise Fee Income as funding source for Climate Initiatives. https://ilsr.org/energy/utility-franchise- fees/	2
CE-4-5	Explore Issuing "resilience bonds" that generate risk-reduction rebates from a city's catastrophe insurance premiums to pay for resilience projects, prioritizing projects with high resilience, GHG mitigation, and climate adaptation potential.	2
CE-4-6	Explore the potential of developing a "Carbon Impact Fee" similar to the City of Wat- sonville CA. Additional funds raised to be used for Climate Mitigation and Adaptation implementation. Increased revenue to be used to fund Climate Mitigation and Adap- tation implementation with a focus on the actions and strategies which increase the community's equity. https://www.cityofwatsonville.org/DocumentCenter/View/198/ Frequently-Asked-Questions-About-the-Carbon-Fund-Ordinance-PDF https:// www.cityofwatsonville.org/DocumentCenter/View/3944/Carbon-Fund-Voluntary- Compliance-Worksheet?bidId=	

