

Carbon Neutrality Plan Quarterly Update

January 11, 2022





Today's Discussion

1. Introducing Jenna Ortega, Climate Engagement Coordinator
2. Reaching Carbon Neutrality - Action Update
 - Strong neighborhoods
 - Clean Energy Sources
 - Managed Consumption
 - Upholding our Commitment
2. Engagement Update
3. Implementation Tools Update
4. Investment Strategy Update
5. Highlights of Upcoming Actions



Welcome, Jenna!

Jenna Ortega joined our team as the Climate Engagement Coordinator in November.



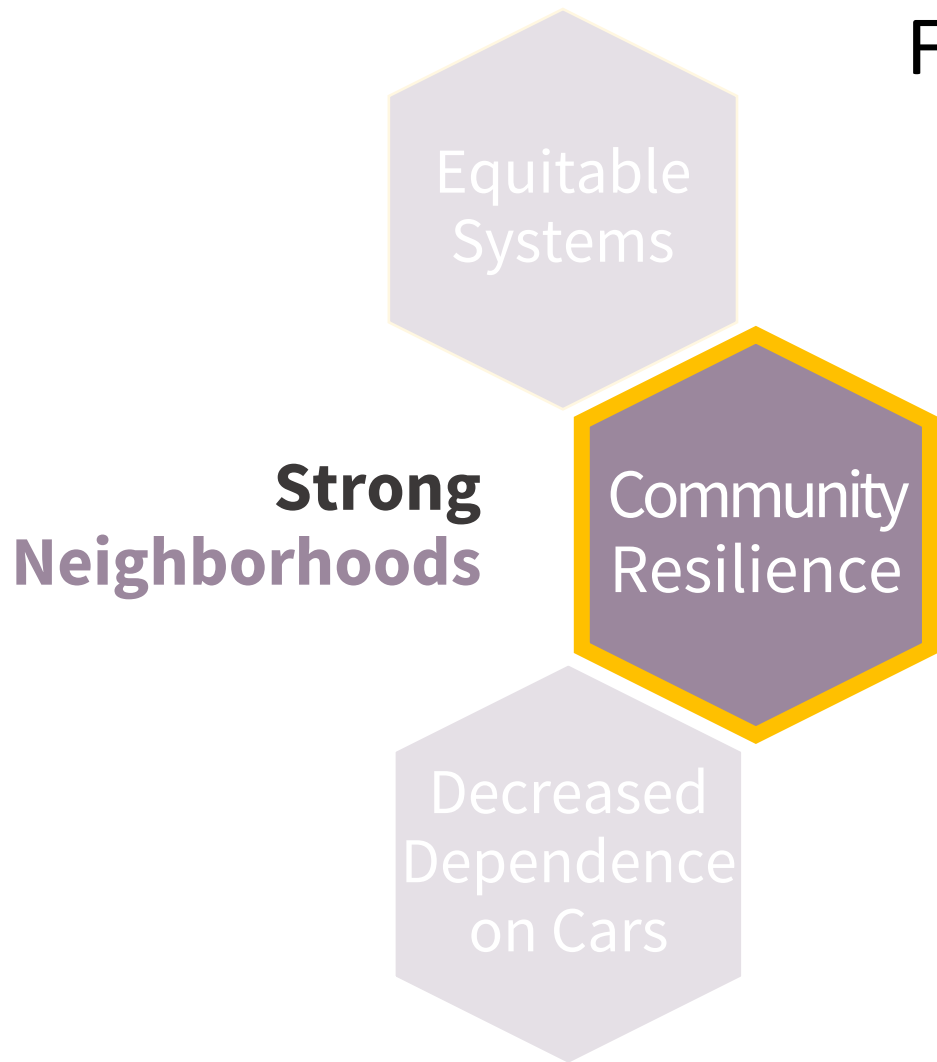
- Encourage community participation and advance climate action.
 - Educational programs
 - Increase inclusiveness and accessibility
 - Advisory Groups
 - Strengthen relationships, trust, and accountability
 - Youth engagement

Carbon Neutrality Action Updates



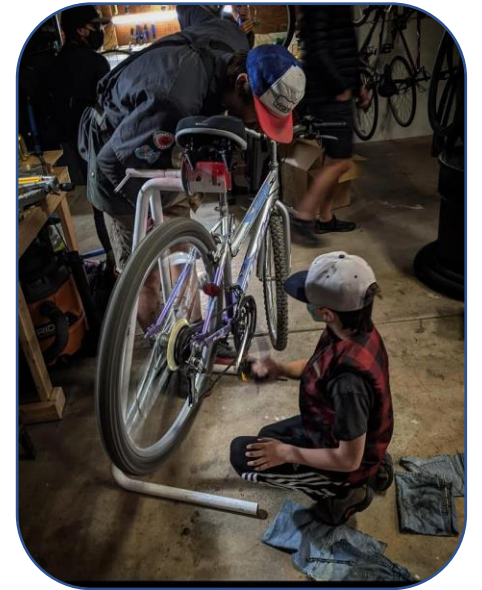


- Make a Difference Day
- Flagstaff HEPA Filter Program
 - APS Grant award of \$2,500
- Flagstaff Climate Resilience Community Survey
- Neighborhood Sustainability Grants
- Key Partners advancing climate planning:
 - Flagstaff Unified School District
 - Coconino County
 - MetroPlan
 - Northern Arizona University



FY21-22 Neighborhood Sustainability Grants

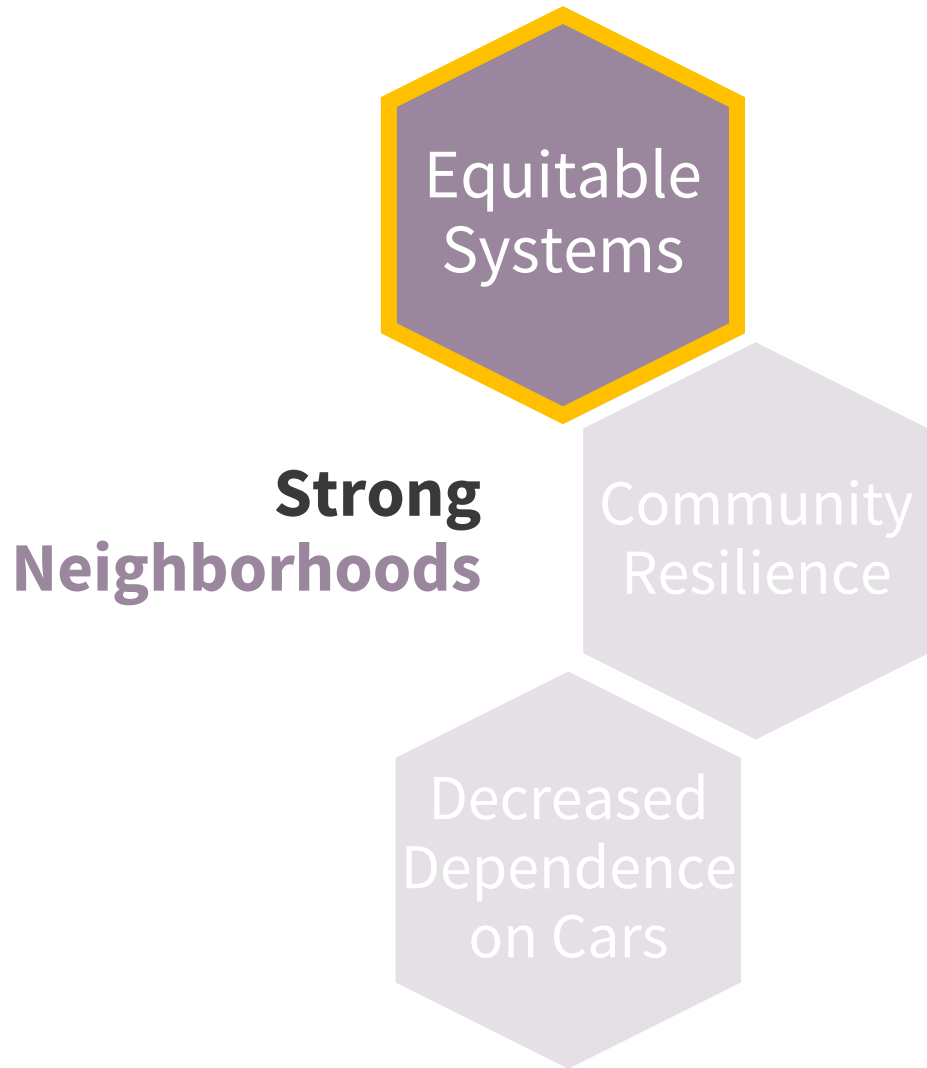
1. Lefty Loosey Bikes
 - Bike building and bike repair pop-up events
2. Friends of Flagstaff Future
 - Air quality monitoring and toolkits for schools
3. Superyard Farms
 - Carbon Farm
4. COCO-OP
 - Community Tool Library
5. Dr. Ricardo Guthrie
 - Informing people about racial reconciliation and progress



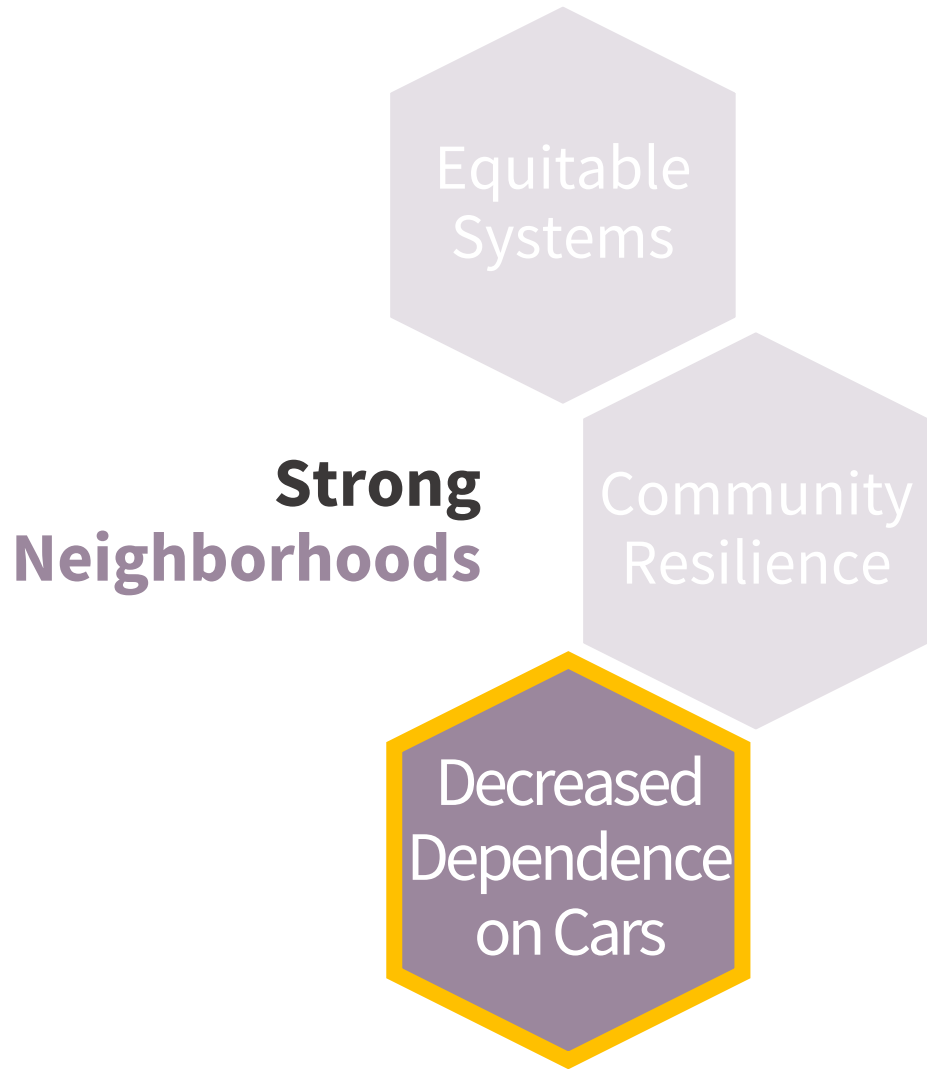


FY21-22 Neighborhood Sustainability Grants

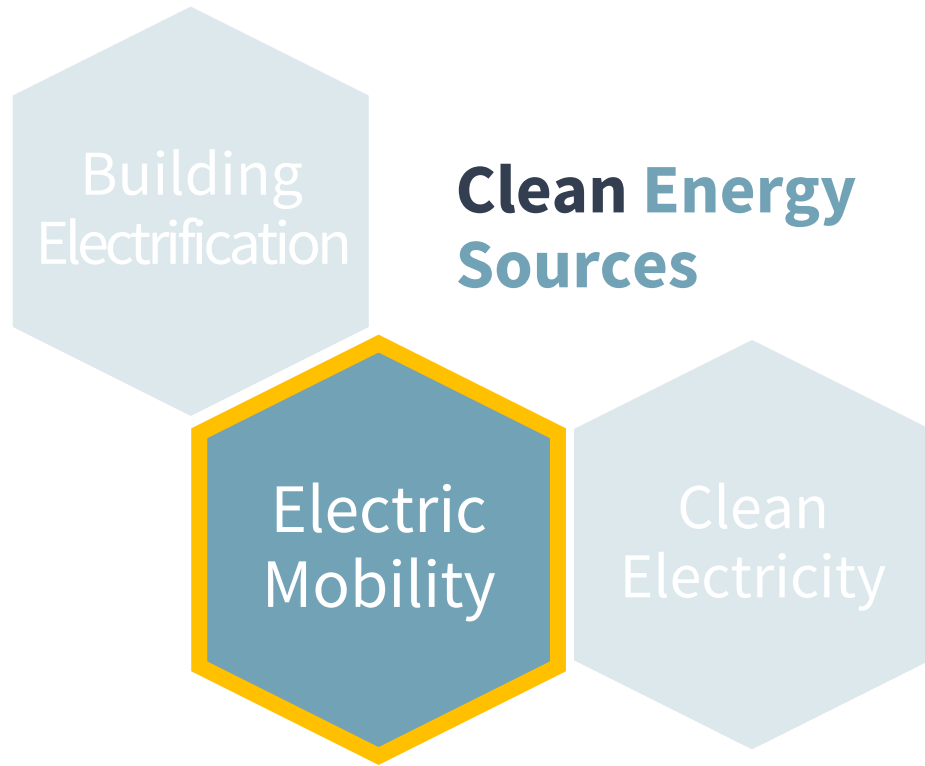
6. AZ Custom Plastics
 - Nonrecyclable plastics recycling infrastructure
 - Community Assistance Teams of Flagstaff
 - Bus to aid unsheltered relatives
7. Tynkertopia
 - Rainwater harvesting and composting
8. Northland Family Help Center
 - Repair garden beds and make cuttings and sprouts available
9. Liminal Flagstaff
 - Pay-as-you-can food plates and a community fridge
10. Coconino County Cooperative Extension
 - Rainwater harvesting basins



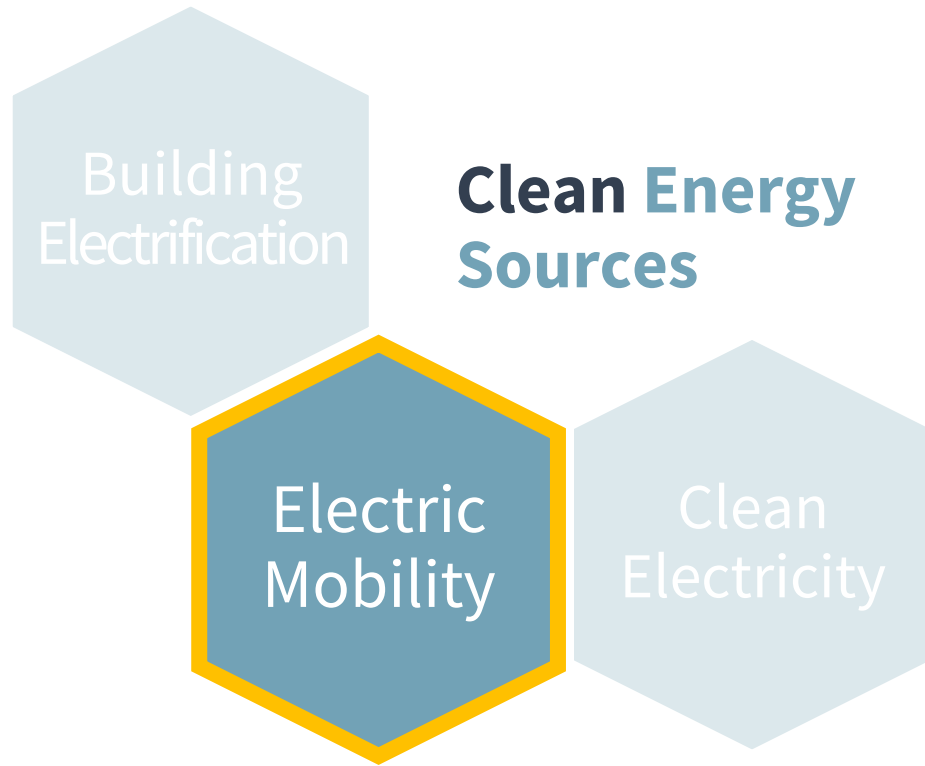
- **Youth, Business, and Equity Climate Advisory Groups**
 - Bring community voices and participation into local climate action
 - Advisory Groups will provide advice and recommendations to:
 - Advance the city’s carbon neutrality goals
 - Identify opportunities for, and challenges to, climate action
 - Improve the inclusiveness, relevance, effectiveness, and accessibility of climate programs and services
 - Ensure that everyone can benefit from climate action
 - Connect the City with the people, communities, and businesses it serves



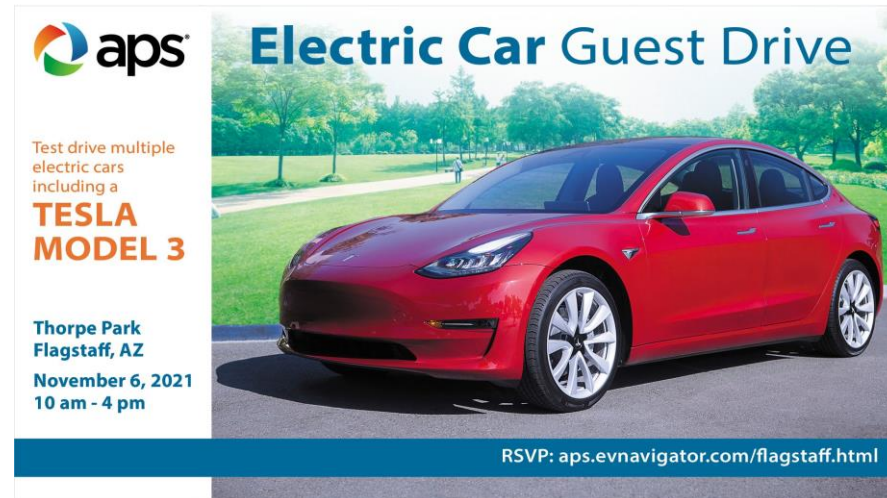
- Awarded a MetroPlan grant in the amount of \$100,000
- Update to the Sustainable Building Incentive
- Update to the High Occupancy Housing zoning code amendments
- Regional Plan amendment for carbon neutrality
- Community University Public Inquiry (CUPI) at NAU community research projects.

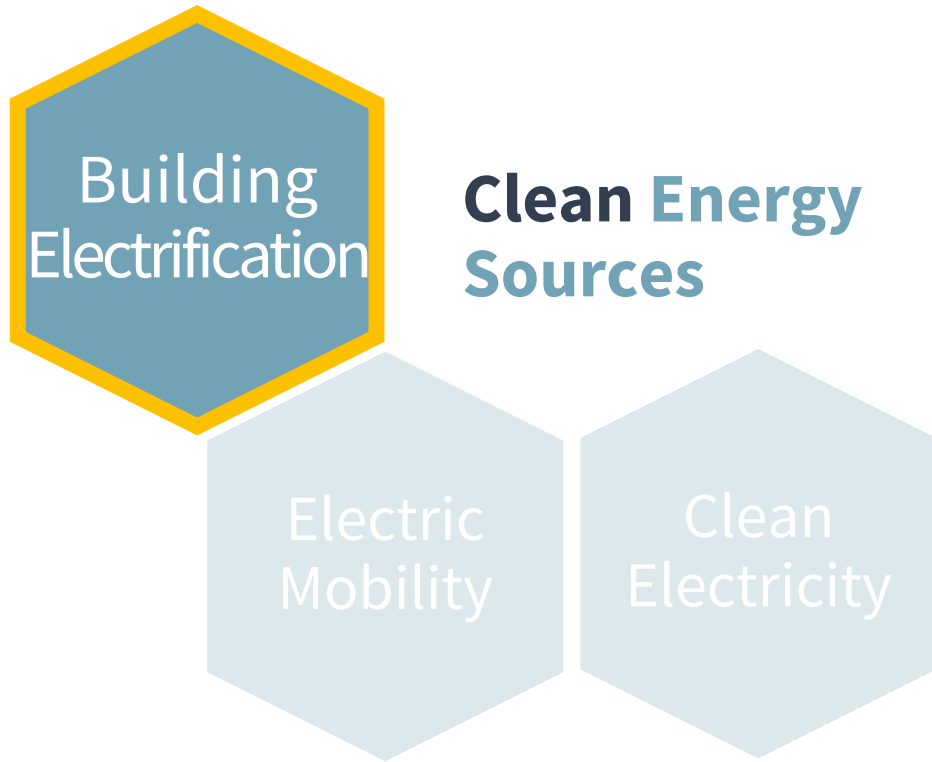


- Electric Vehicle Charging Stations:
 - Aquaplex – available for public use
 - Airport – construction January 2022
 - Visitor Center – awaiting final design
 - NACET Campus - waitlisted
- City Fleet purchases past 6 months
 - In-Service:
 - 1x Electric Riding Mower
 - 1x new Plug-in Hybrid EV for City Hall pool use
 - On Order:
 - 2x Hybrid SUVs for Building Inspectors
 - 1x EV Sedan for Parks
 - 5x EV Pickups

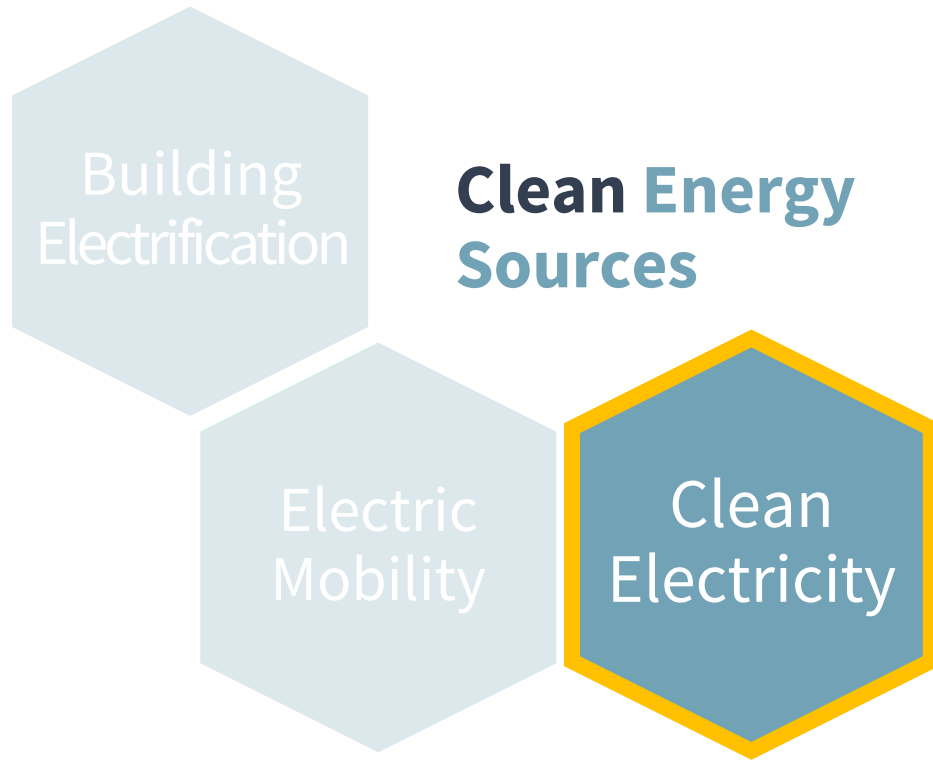


- Arizona Corporation Commission approved the final phase of the Transportation Electrification Plan
- Sustainable Automotive Rebates:
 - To date, have distributed just over \$7,000 and supported 15 sales
- Over 200 people experienced EVs during the Ride & Drive event with APS in November

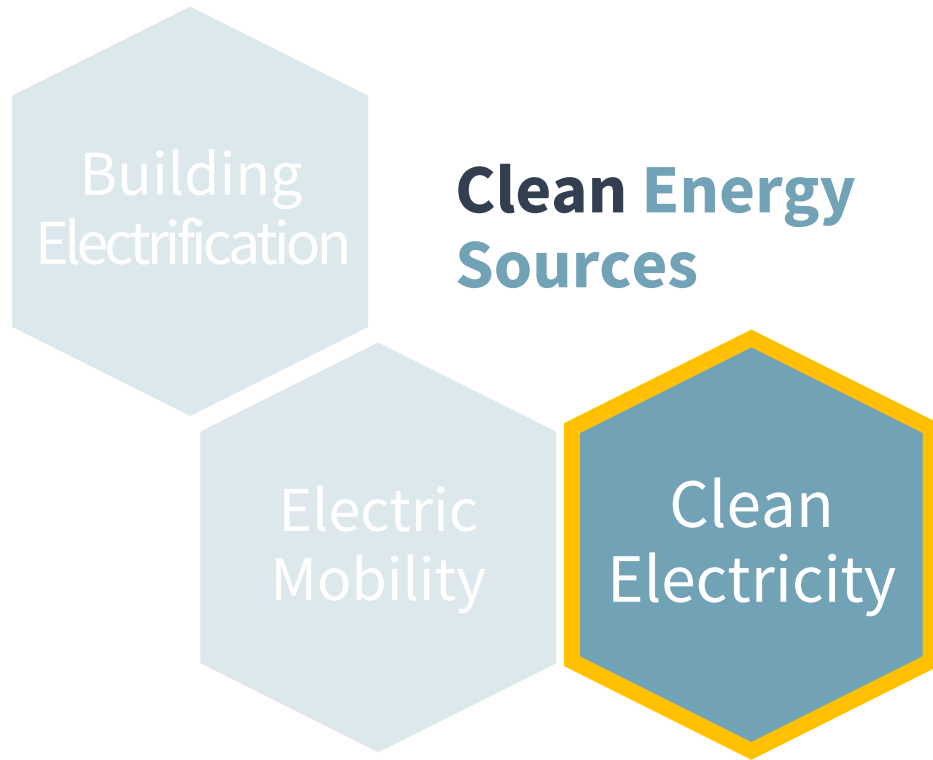




- Early adopter listening tour
 - Learnings, challenges, outcomes, etc.
- Community education and training
 - Working with the Electric League of Arizona, APS and other potential partners
 - Contractor training
 - Residential training
 - Programs for both residents and contractors

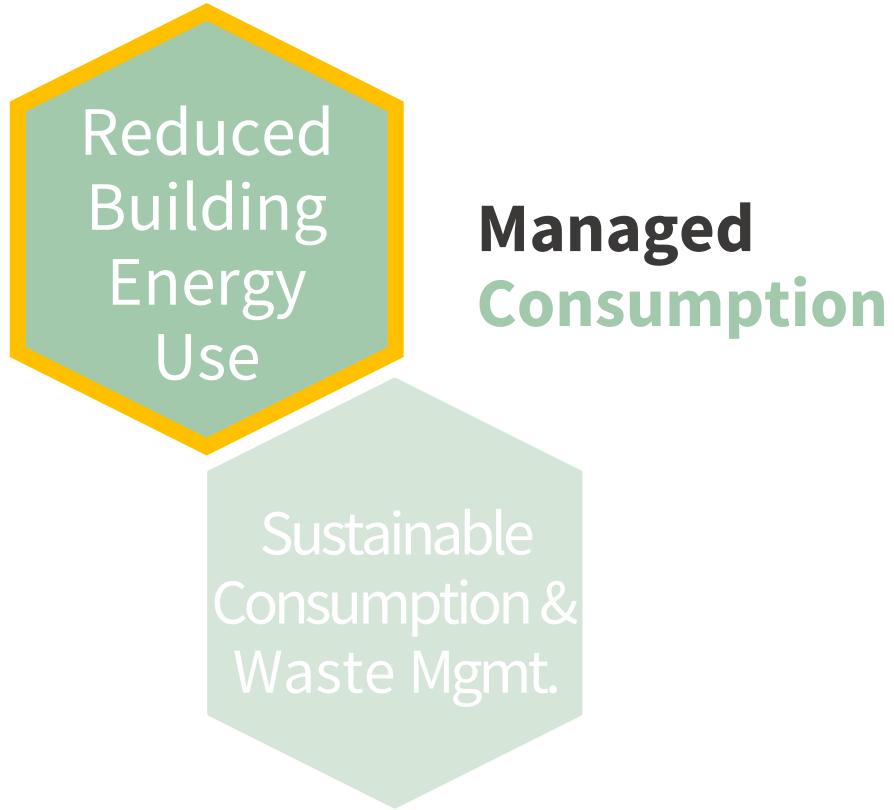


- Hoover (Year 4 of 50)
 - Water Year 2021 (Oct 20 – Sep 21)
 - Received 628 Megawatt Hours
 - Savings of \$21,000
 - 4-year cumulative savings:\$71,500
- Approved by Budget Team to purchase 100% of the City organization’s electricity through APS Green Power Partners Program for the next six months
 - Leeward Wind Farm in New Mexico
 - 1st step in our energy independence trajectory

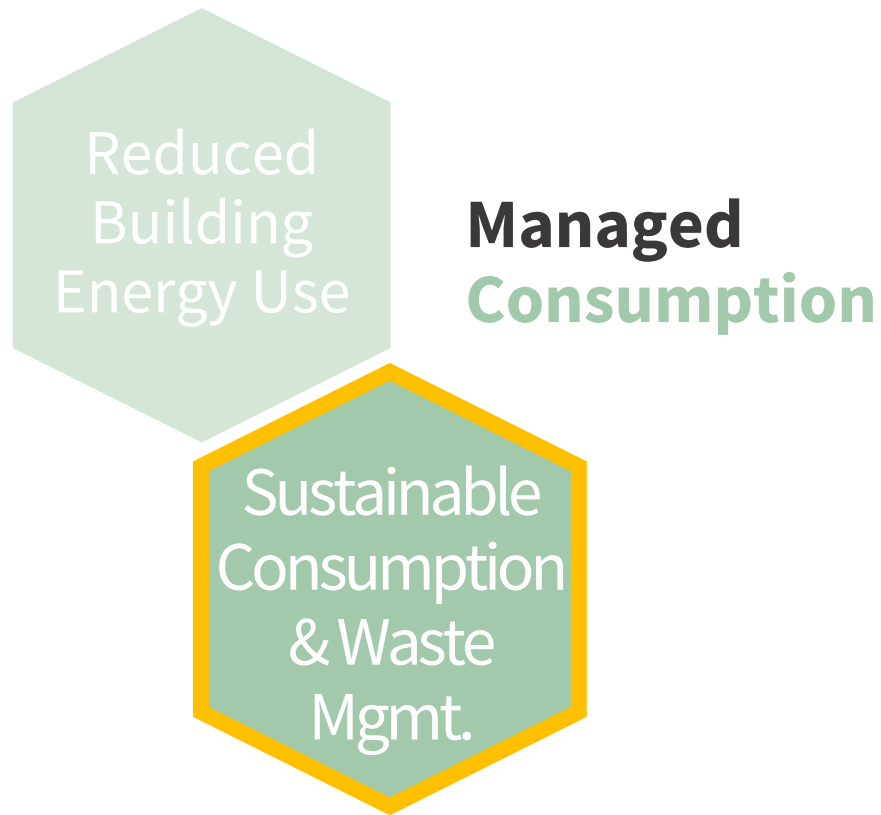


• Solar Coop Update

- 68 installations now expected
 - 39 projects complete
 - 9 projects in cue
 - 20 projects in design/engineering/update
 - Will be installed in next 2-3 months
 - 681 kW total capacity
- Employment and Business Impact
 - 5 new local hires
 - Installation, project mgmt., site analyst
 - “Coop nearly doubled our local business in 2021. Non-coop business was also up in 2021 from 2020 (which was a record year).”



- Energy Rebate Funds have been fully distributed
 - Will be dormant until FY 22 (July 2022)
 - In 4 of last 5 years all funds allocated by December/January
- Home Energy Efficiency Workshops
 - 4 workshops held so far
 - 2 in-person, 2 remote
 - Online course available anytime!
- Energy Services Contract
 - Work has begun - six sites audited: Aquaplex, City Hall, Lake Mary, Library, Rio de Flag, and Wildcat



- Waste Diversion Events
 - Drop-off Day
 - Pumpkin Drop-off
 - Fix-it Clinic
- Community Gardens/ Composting
 - Residential Food Scraps Drop-Off
- Trash Less Save More
 - Completed audit of Ponderosa Trails pilot area
 - Collected 3,200 data points

Upholding our Commitment



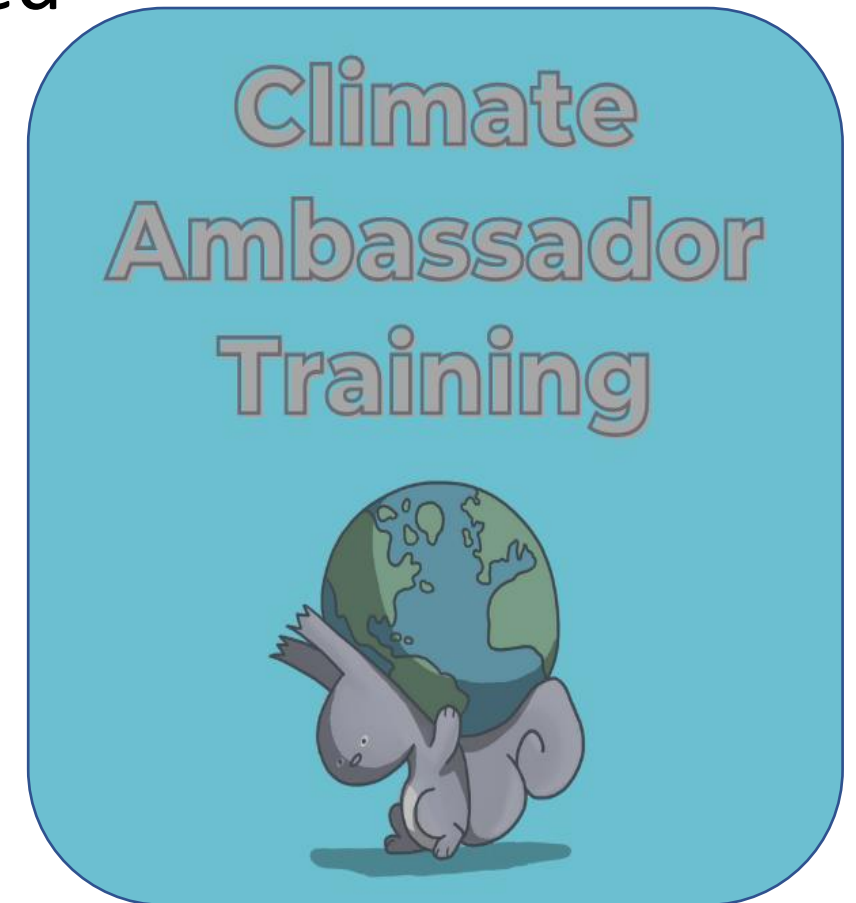
- Kicked Off the Innovate Waste and Carbon Removal Challenge with NACET
- Delivered a [presentation](#) during the United Nations Climate Change Conference in Glasgow (COP26)
 - Co-presenters include Boulder County, Colorado, Center for Negative Carbon Emissions, Carbon Direct, and the OpenAir Collective
- Announced the launch of a Carbon Dioxide Removal coalition w/ Boulder County
 - To aggregate demand and help develop the market transformation for CDR

Engagement

- Sustainability Leaders: 3rd cohort graduated
- Recognition by Arizona Forward
- Active Transportation Master Plan
- Climate Advisory Groups

Upcoming Opportunities

- Home Energy Efficiency Workshop
 - 1/24/22
- Climate Ambassadors
 - 1/26/22 and 1/27/22





Implementation Tools

- Carbon Neutrality Plan (CNP) information in Council Staff Summaries
- CNP information collection through new funding requests
- CDP A-List City Recognition
 - Based on inventory, disclosure protocol and CNP
 - 3rd year in a row
 - Less than 10% that disclose receive an A-list recognition
 - 94 cities worldwide in 2021



Investment Strategy

- Completed the first Program Design Sprint with investment consultants for COF Residential Deep Decarbonization Initiatives:
 - Whole Home Retrofit Program
 - Rebate and Bulk Buy Programs
 - Note: Costs/Impacts incorporated into ongoing Bond discussions
- Preliminary finance model for Smart E-Loan program
 - Interest rate buy-down
 - Loan risk buy-down



Investment Strategy

- Developed proposal for eight highly impactful projects to be considered by the Citizen Bond Committee:
 1. Healthy and Efficient Homes
 2. Energy Independence Initiative
 3. Safe and Accessible Bike and Pedestrian Infrastructure
 4. Community Health and Resilience Initiative
 5. Accessory Dwelling Units Infill Accelerator
 6. Healthy Homes and Stoves
 7. Community Electric Mobility
 8. Northern Arizona Food Systems Support



Highlights of Upcoming Actions

- Update to the Sustainable Building Resolution with a focus on resiliency
- Prepare for Northern Arizona Solar Coop Round 2
- Prepare for earmark funding of a retrofit program through the Omnibus spending bill
- Complete tools and resources for the Residential Electrification Information Hub
- Expand the “Business Opportunity of Carbon Removal” programming with NACET
- Advance the Carbon Dioxide Removal Coalition
- Introduce Carbon Dioxide Removal Zoning Code Relief
- Propose Legislation to accelerate business development in Carbon Dioxide Removal (Carbon to Value)
- Present impacts of proposed bond projects to the Citizen Bond Committee

Thank you

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Home Energy

Efficiency

Workshop

January 24

6:00 - 7:00 pm

in-person (TBD)

Climate

Ambassador

Training

January 26 + 27

6:00 - 7:30 pm

virtual 2-day training