



# CLEAN CITIES COALITION

OCTOBER 13, 2022

#### **AGENDA**

- Introductions
- Clean Cities Background
- Clark County Objectives
- Benefits
- Upcoming Events

#### **INTRODUCTIONS**

Clark County Department of Environment and Sustainability

Marci Henson, Director

Jodi Bechtel, Assistant Director

Rina Taviv, Planning Manager of Air Quality and Climate

Sam Baker, Sustainability Program Administrator

Nicole Wargo, Clean Cities Fellow



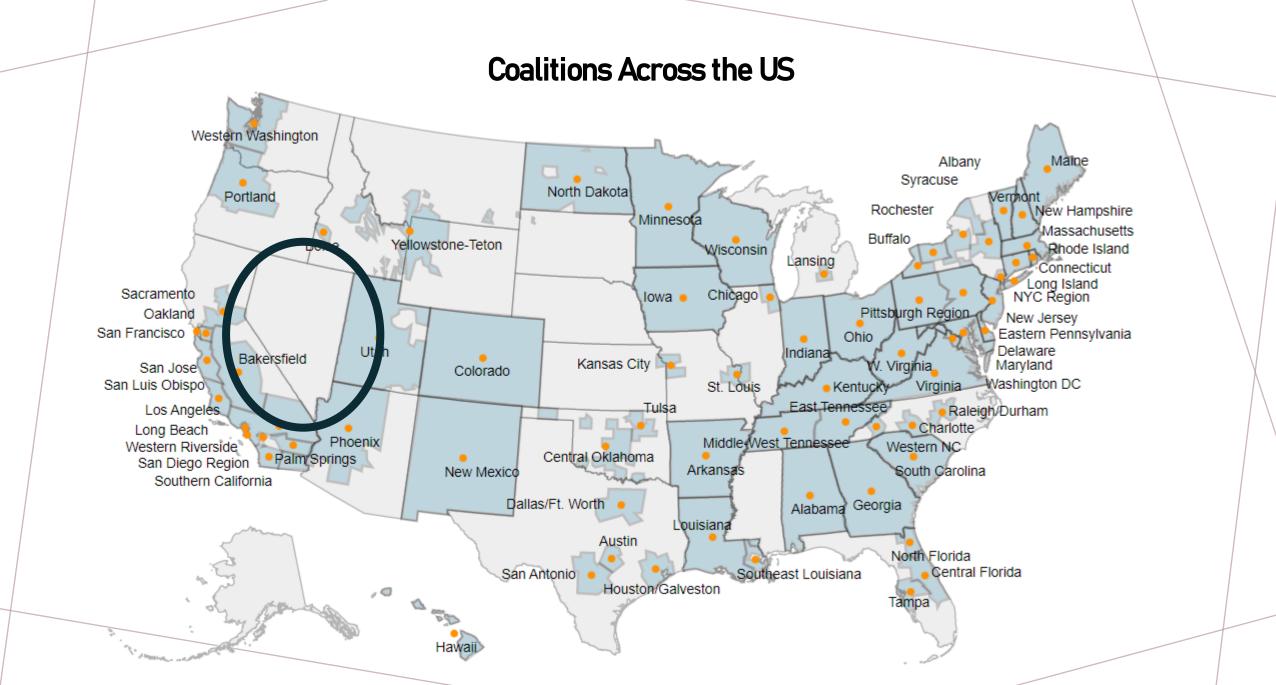
Please introduce yourself in the chat

#### **CLEAN CITIES COALITION**

- A network to reduce petroleum fuel use
  - Approved alternative fuels
  - Idling reduction
- Purpose:
  - Reduce dependence on foreign oil
  - Provide cleaner air
  - Lower greenhouse gas emissions
- Created in 1993
- Run by The US Department of Energy (DOE)
- Requires steps to receive designation
- Over 75 coalitions in the country



Building Partnerships to Advance Affordable, Efficient, and Clean Transportation Fuels and Technologies



# WHY CLEAN CITIES?

Funding opportunities

National recognition

Collaborative space for community

Capacity building

Cleaner air and fewer greenhouse gas emissions

Education and technical support from DOE

#### **CLEAN CITIES ACHIEVEMENTS**

Coalition projects have helped to put more than

1 million alternative fuel
vehicles on the road.2





Clean Cities coalitions have forged partnerships with more than 20,000 stakeholders

nationwide. Through their collective efforts, they are transforming local and regional transportation markets and offering consumers

additional transportation choices.2

Coalition projects have resulted in a cumulative impact in energy use equal to nearly 12 billion gasoline gallon equivalents resulting from reduced fuel use and increased fuel diversity.1



# WHO IS A STAKEHOLDER?

Anyone interested in reducing petroleum fuels!

- We want to work with:
  - Fleet managers
  - Car dealerships
  - Nonprofits
  - Municipalities
  - Fuel providers
  - Public organizations
  - Trade unions and mechanics



#### WHICH FUELS?



US Department of Energy, Alternative Fuels Data Center

Information about these fuels can be found on our <u>website</u>



# VEHICLE AND EQUIPMENT TYPES

Construction equipment

Light duty vehicles

Medium duty vehicles

Heavy duty vehicles

Lawn equipment

Recreational vehicles

Ground support vehicles for operational use

Any type of equipment that uses gasoline or diesel

#### ORGANIZATIONAL STRUCTURE

#### **CLARK COUNTY**

- Run through County government
- Provides funding for Coordinator
- Hosts meetings and events

#### COORDINATOR/DIRECTOR

- Clark County Employee
- Oversees Coalition
- Coordinates meetings and events
- Ensures progress

ADVISORY COMMITTEE & WORKING GROUPS

GENERAL STAKEHOLDERS

#### **GOALS**









**INCREASE NUMBER** OF ALTERNATIVE **FUEL VEHICLES IN REGION** 

**INCREASE NUMBER** OF REFUELING/ RECHARGING **STATIONS** 

**RECRUIT NEW STAKEHOLDERS**  **DEVELOP AND PROMOTE INCENTIVES** 



**COMMUNICATE** MESSAGE TO THE **PUBLIC** 



ACHIEVE FINANCIAL AND MEMBERSHIP **SUSTAINABILITY** 



**EDUCATE POLICY** MAKERS ABOUT BENEFITS OF ALTERNATIVE FUEL **VEHICLES** 

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# DESIGNATION PROCESS

- · Level One: Apprenticeship
  - Begin meetings and events
  - Formation of Advisory Committee
  - Submission of Application
    - Letters of Commitment
- Level Two: Full Designation
  - Demonstrated commitment
  - Strong stakeholder base
  - Formation of Working Groups
  - Submission of Four-Year Plan

### QUESTIONS?



#### **ALL-IN CLARK COUNTY**

Sustainability and Climate Action Initiatives

Sam Baker

Sustainability Program Administrator

#### DIRECTION FROM CLARK COUNTY COMMISSION

- Restructure Department of Air Quality
  - New name
  - Office of Sustainability
    - Sustainability Program Administrator
- Joined County Climate Coalition
  - Reduce greenhouse gas emissions to meet Paris Climate Agreement
- Set goal of "Net Zero by 2050"
- Prepare a Sustainability and Climate Action Plan





#### Planning Process

#### All-In Clark County Planning Timeline



Clark County Department of Environment and Sustainability

10/13/22

# 2 WAYS CLARK COUNTY CAN ADDRESS CLIMATE CHANGE



Reduce greenhouse gas emissions



Prepare for impacts of climate change

#### Sustainability and Climate Action Plan for County Ops



**CLEAN & RELIABLE ENERGY** 



**RESILIENT COUNTY OPERATIONS** 

5



**SMART WASTE MANAGEMENT & REDUCTION** 

KEY AREAS



**SUSTAINABLE TRANSPORTATION** 



**WATER CONSERVATION & PROTECTION** 



#### SUSTAINABLE TRANSPORTATION

#### **GOALS**

- Reduce emissions from vehicles in County operations.
- Support County employee commuting alternatives.
- Promote policies, programs, and infrastructure investments that prioritize multi-modal, clean, efficient transportation options throughout Clark County.

#### POTENTIAL ACTIONS

Shifting the way the County's employees commute, the composition of its vehicle fleet, as well as the way the County thinks about transit-oriented development can significantly reduce the County's greenhouse gas emissions. The following actions have been identified to help the County achieve its goals for transportation.



#### **ACTION**

#### **DESCRIPTION**

Adopt policies and employ technology that allows for remote work/meetings, where practical and appropriate. Technology and software for remote work options have become robust and readily available in recent years. While practicality and optimization of service must be taken into consideration, transitioning appropriate County employees to flexible work arrangements can reduce transportation emissions and traffic congestion. Given demands for remote work during the current pandemic, the County has already begun identifying and implementing additional telecommuting practices and policies that will be further expanded upon in the coming months.

Expand employee commuting programs that incentivize and encourage alternative commuting modes.

By expanding incentives programs, including the County's participation in ClubRide, the County can encourage commuters who have the ability to take alternative modes of transportation to do so. Many employee commuting programs offer rewards such as gift cards, tax benefits, social recognition, and subsidies.

Establish a formal vehicle purchasing and replacement policy that considers right-sizing of vehicles, assesses lifecycle costs and benefits, and shifts the County fleet to low-/zero-emission vehicles.

Establishing a formal policy for County fleet purchasing and replacement can help the County set centralized standards for vehicle performance, type, cost, and emissions potential, such that the County can easily monitor fleet contributions to greenhouse gas emissions and other embodied costs. While the County currently follows a framework for these procedures, it is informal.

Install electric vehicle charging infrastructure needed to support County staff vehicles.

While the County currently has infrastructure in place for fleet and public charging, there are no stations dedicated for employee use. Installing electric charging infrastructure can encourage employees to make the transition to electric vehicles into the include the charging of anable at the workplace.

Apply to become a Clea City through the Clean Cities Coalition. The Clean Cities Coalition supports transportation efficiency at local, state, and national levels. Clark County can amplify its transportation efforts and funding opportunities by joining the Coalition as a Clean City.

#### CLARK COUNTY OPERATIONS ACTIONS

## TRANSPORTATION ELECTRIFICATION WORKING GROUP



"develop, coordinate, and implement local programs and strategies to support transportation electrification in Southern Nevada in an equitable manner."

- Discover current transportation electrification efforts
- Uncover barriers and challenges
- Develop model EV charging infrastructure ordinance including costs
- Work with core collaborators to house actionable goals
- Work with utilities and PUON to accelerate electrification strategically

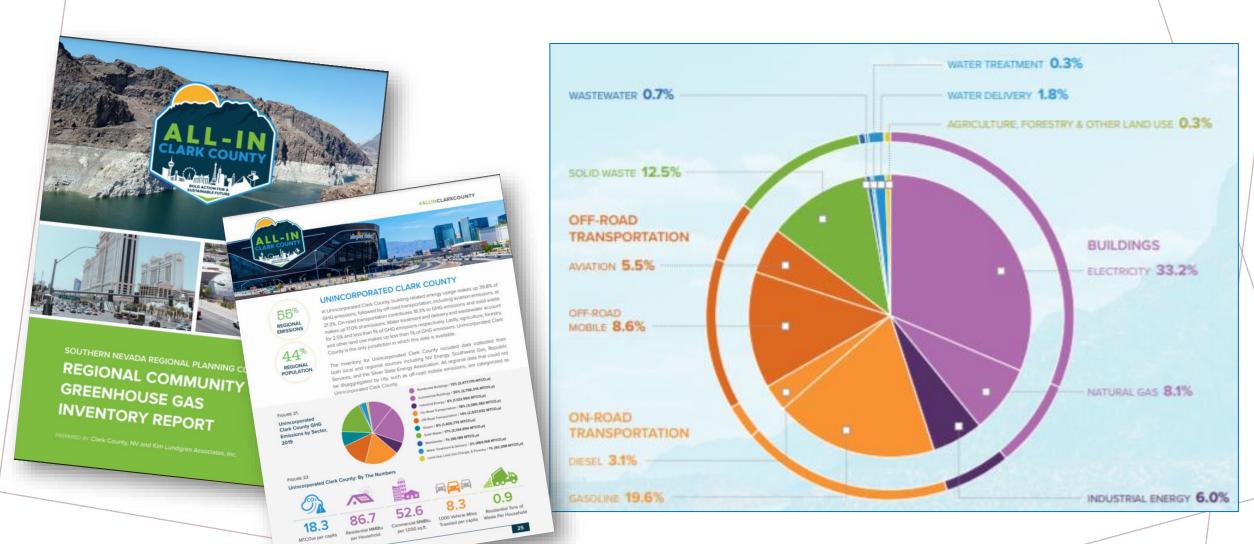


# ALL-IN COMMUNITY PLAN



CLARK COUNTY'S
SUSTAINABILITY AND
CLIMATE ACTION PLAN

#### **GREENHOUSE GAS EMISSIONS INVENTORY - 2019**



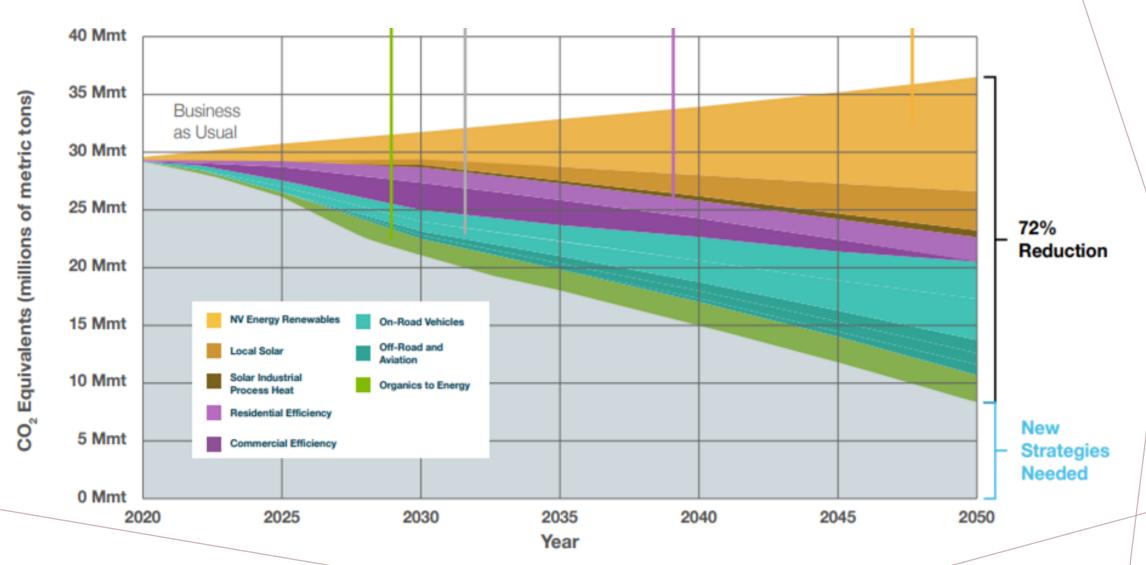
Clark County Department of Environment and Sustainability

SOURCE	MTCO <sub>2</sub> e	% OF TOTAL
On-Road Transportation	6,734,219	23.0%
Gasoline	5,747,487	19.6%
Diesel	904,285	3.1%
Electric	8,705	0.0%
CNG	6,483	0.0%
Transit CNG	51,029	0.2%
Transit Biodiesel	16,230	0.1%

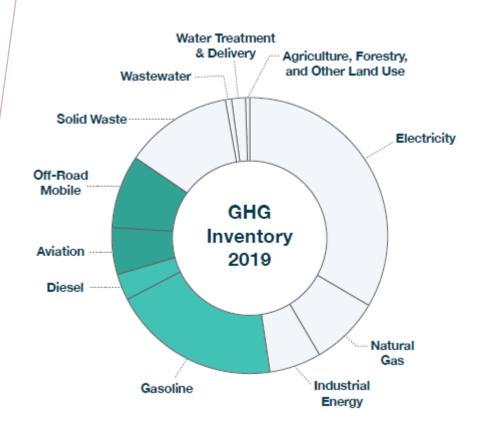
#### GREENHOUSE GAS EMISSIONS FROM TRANSPORTATION

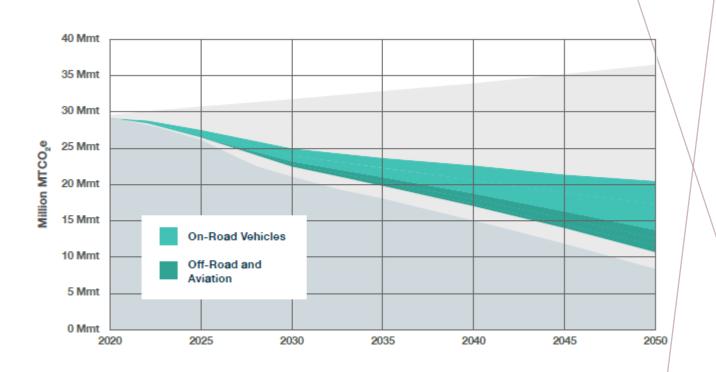
SOURCE	MTCO <sub>2</sub> e	% OF TOTAL
Off-Road Transportation	4,145,745	14.1%
Off-Road Mobile	2,511,500	8.6%
Aviation	1,608,713	5.5%
Waterborne Navigation	17,589	0.1%
Railways	7,944	0.0%





#### GHG PATHWAYS ANALYSIS FOR TRANSPORTATION





#### Community-Wide Plan Six Key Areas







Connected & Equitable Mobility



Resilient & Healthy Community



Diverse & Circular Economy



Smart Buildings & Development

#### Connected and Equitable Mobility



**Vision**: Developing a safe, connected, and accessible transportation system that prioritizes low-carbon mobility, public transportation, and active lifestyles.

Goal #2: The transportation system minimizes energy use and eliminates fossil fuels.

- Transition 25% of passenger and light-duty vehicles to zero emissions by 2030.
   Potential Actions Include:
- Advocate for equitable access to fossil-fuel-free transportation resources.

# NEXT STEPS FOR ALL-IN INITIATIVES

- Continue with implementation of actions in County operations plan
- Release draft All-In Community Plan Jan 2023
  - Develop implementation strategies



## QUESTIONS?

#### BENEFITS OF THE CLEAN CITIES COALITION

#### OUTREACH TO DATE

Participated on panel at the International Car Rental Show

Exhibitor Booth at FleetCon

Notices at
Transportation
Electrification Working
Group

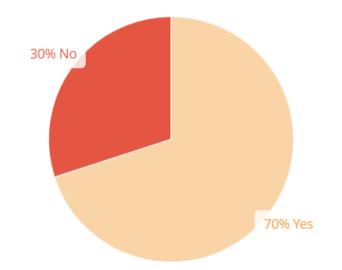
Surveys

Email and digital communications

Exhibitor Booth at NV Energy & NV Franchised Auto Dealers Association EV Ride and Drive

#### **SURVEY RESULTS**

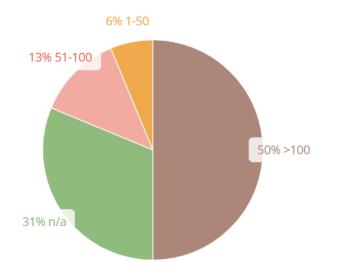
Have you heard of the Clean Cities Coalition?



What is your level of interest in alternative fuel use, including electric, in Southern Nevada?



#### How large is your organization's fleet?





## GENERAL STAKEHOLDER MEETINGS

- Quarterly
- Presentations from local stakeholders
  - o Including you!
- Opportunity to network
- Opportunities to have joint meetings with other transportation-related organizations
- Community to share best practices



# EVENTS & OUTREACH

- Programming during months without meetings
  - Funding opportunities
  - Technical trainings
  - New products and technology
  - Ride and Drives
- Resources via website and newsletters

## FUNDING OPPORTUNITIES

- Local/State Funding and Grant Writing Workshops
- Incentives posted on website
- Additional opportunities through Department of Energy
  - 2021: 20 projects awarded \$71 million

Applicant	Location	Project	Federal Share
Metropolitan Energy Center (nonprofit)	Kansas City, MO	EV Market Stimulation in Divested Economies	\$5,222,326
Columbia-Willamette Clean Cities Coalition	Tualatin, OR	Equitable Mobility Powering Opportunities for Workplace Electrification Readiness (EMPOWER)	\$3,970,539
BorgWarner Inc. (automotive supplier)	Auburn Hills, MI	Technology & Design Innovations to Maximize the Reduction Effect on DCFC Unit Cost Economics (MAX-REDUCE)	\$4,093,880

US Department of Energy

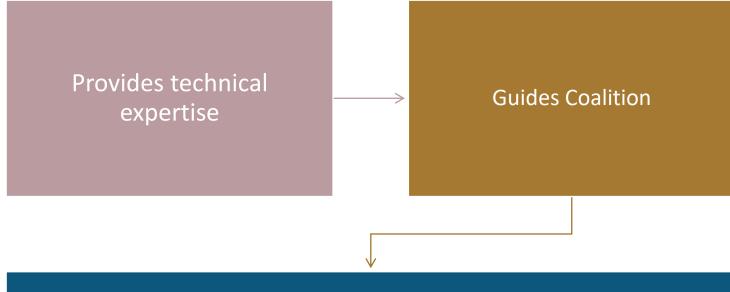
## GENERAL STAKEHOLDER

- Anyone!
- Those here to learn
- Organizations outside community
- Providers of available products and technologies to support Clean Cities efforts

## ADVISORY COMMITTEE

- Subject matter experts
- Connected to community
- Local service agencies
- Municipalities/government agencies
- Utilities and fuel providers
- Vehicle and equipment providers
- Reet managers (large and small)

## ADVISORY COMMITTEE



#### **Expectations:**

- 1 year commitment
- Attend Committee meetings
- Champion Coalition mission through active participation
- Deliver needed information to Coordinator/Director
- Recommend programming, funding opportunities, etc.
- Coordinates and organizes working groups
- Note: this is not a formal board

Looking for 9 to 15 committed stakeholders



## **WORKING GROUPS**

- Examples:
  - Fuels and Infrastructure
  - Communications/Outreach
  - Education/Training
  - Idle Reduction
  - Coalition Membership

















Clean Fuels • Clean Strategies • Clean Air

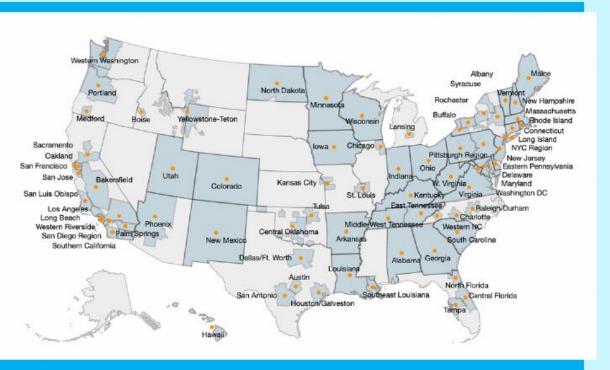


**Tammie Bostick** 

Executive Director
Tammie.Bostick@utahcleancities.org

801.580.1922

#### **Clean Cities Coalitions**



Clean Cities coalitions foster the economic, environmental, and energy security of the United States by working locally to advance affordable, domestic transportation fuels, energy efficient mobility systems, and other fuel-saving technologies and practices.

## Clean American Fuels

**Advanced Fuels for Americas Fleets** 

75+ Coalitions

OVER 75 CLEAN CITIES SUPPORTING CLEAN FUEL STRADEGIES THROUGHOUT THE UNITED STATES.

2:1 Match

CLEAN CITIES COALITION-SUPPORTED PROJECTS HAVE HISTORICALLY LEVERAGED ALMOST 2:1 IN MATCHING FUNDS AND IN-KIND CONTRIBUTIONS FROM PRIVATE AND PUBLIC SECTOR PARTNERS. \$460 Million

SINCE 1993, THE U.S.

DEPARTMENT OF ENERGY'S
(DOE) VEHICLE TECHNOLOGIES
OFFICE (VTO) HAS
DISTRIBUTED CLOSE TO \$460
MILLION IN TRANSPORTATION
PROJECT AWARDS

#### CLEAN FUEL | CLEAN STRATEGIES | CLEAN AIR

**ASPIRE** Ace Recycling & Disposal **Breathe Utah Canyons School District** ChargePoint Clean Fuels Utah **Dominion Energy of Utah Draper City** Electriphi FreeWire Technologies Geneva Rock **Holladay City** Kane County Lancer Energy Leaders for Clean Air **Lewis Bus Group Moab City** Momentum Recycling **Murray City** 

Ogden City

Orange EV

Packsize

**Park City School District** 



**Provo City** ReFuel Energy Partners Rocky Mountain Power | Pacifcorp **Rocky Mountain Propane** SLCGreen & Salt Lake City Salt Lake Chamber of Commerce Sandy City Santa Clara City Semi-Service Transportation Energy Partners, TEP Utah's Clean Air Partnership, UCAIR **United Parcel Service, UPS** University of Utah **Utah Dept. of Environmental Quality Utah Dept. of Transportation, UDOT Utah Governor's OED Utah Inland Port Authority** Utah Transit Authority, UTA **Utah State School District Utah State University** Weber State University **Washington City** Zion National Park



# EVZION Shuttle Pilot

**PROOF of CONCEPT** 



# DRIVE CLEAN' RURAL USA

**UTAH CLEAN CITIES** 



## RURAL MOBILITY







UNDER-RESOURCED REGIONS COMMUNITY & WORKPLACE

FREIGHT & PORT ADVANCED FUELS

DESTINATION HIGHWAYS

## Rural Gateway Counties

CLEAN FUELS | CLEAN STRATEGIES | CLEAN AIR









UTAH CLEAN CITIES

ALABAMA CLEAN FUELS

**CLEAN FUELS OHIO** 

SOUTH SHORE CLEAN CITIES

COLUMBIA - WILLAMETTE

**VIRGINIA CLEAN CITIES** 

WISCONSIN CLEAN CITIES



## West Electric HIGHWAY

Supporting Electric Vehicle
Infrastructure Deployment along Rural
Corridors in the Intermountain West





#### **UPCOMING**

## SMALL AND MEDIUM BUSINESS FUNDING WORKSHOP

- Proposed for November
- Learn what opportunities exist in Nevada to help your business convert to alternative fuels!
- Webinar
- Presented by Kirsten Stasio

Executive Director, Nevada Clean Energy Fund

#### SURVEY PARTICIPATION

- Due by: November 3
- Determine level of interest
- Advisory Committee
- Reach out to Nicole with questions

Nicole.Wargo@ClarkCountyNV.gov

### FINAL DISCUSSION

- Goal: reduce petroleum fuel use
- Currently no representation in Nevada
- Requires designation process
- Run by Clark County government
- Requires at least 9 Advisory Committee members
- Access to funding only available to Coalitions
- Opportunity to collaborate with other Coalitions

Please complete survey by November 3 to determine level of interest

## QUESTIONS?





## THANK YOU

#### Nicole Wargo

Clean Cities Coalition Fellow
Clark County Department of Environment and Sustainability

Nicole.Wargo@ClarkCountyNV.gov



Or search:
"Clark County
Clean Cities Coalition"