Priority Climate Action Plan (PCAP)
Public Presentation

Carson City, Nevada

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Sustainability Solutions Group
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CONTENTS

- PCAP process

- Overview of GHG inventory

- Mitigation measures and example programs

- The Comprehensive Climate Action Plan (CCAP)

PCAP Purpose

Identify near-term, high-priority, implementation ready measures to reduce GHG emissions

THE OPPORTUNITY
FUNDING FOR CLIMATE ACTION

Inflation Reduction Act

$783 billion

in tax credits and grants for domestic energy production and carbon emissions reduction

Climate Pollution Reduction Grant Program
$5 billion for planning & implementation

Infrastructure Investment & Jobs Act

$1.2 trillion

for upgrading and expanding transportation and other infrastructure

THE OPPORTUNITY
FUNDING FOR CLIMATE ACTION

Inflation Reduction Act
$783 billion

Legend:
- Air pollution
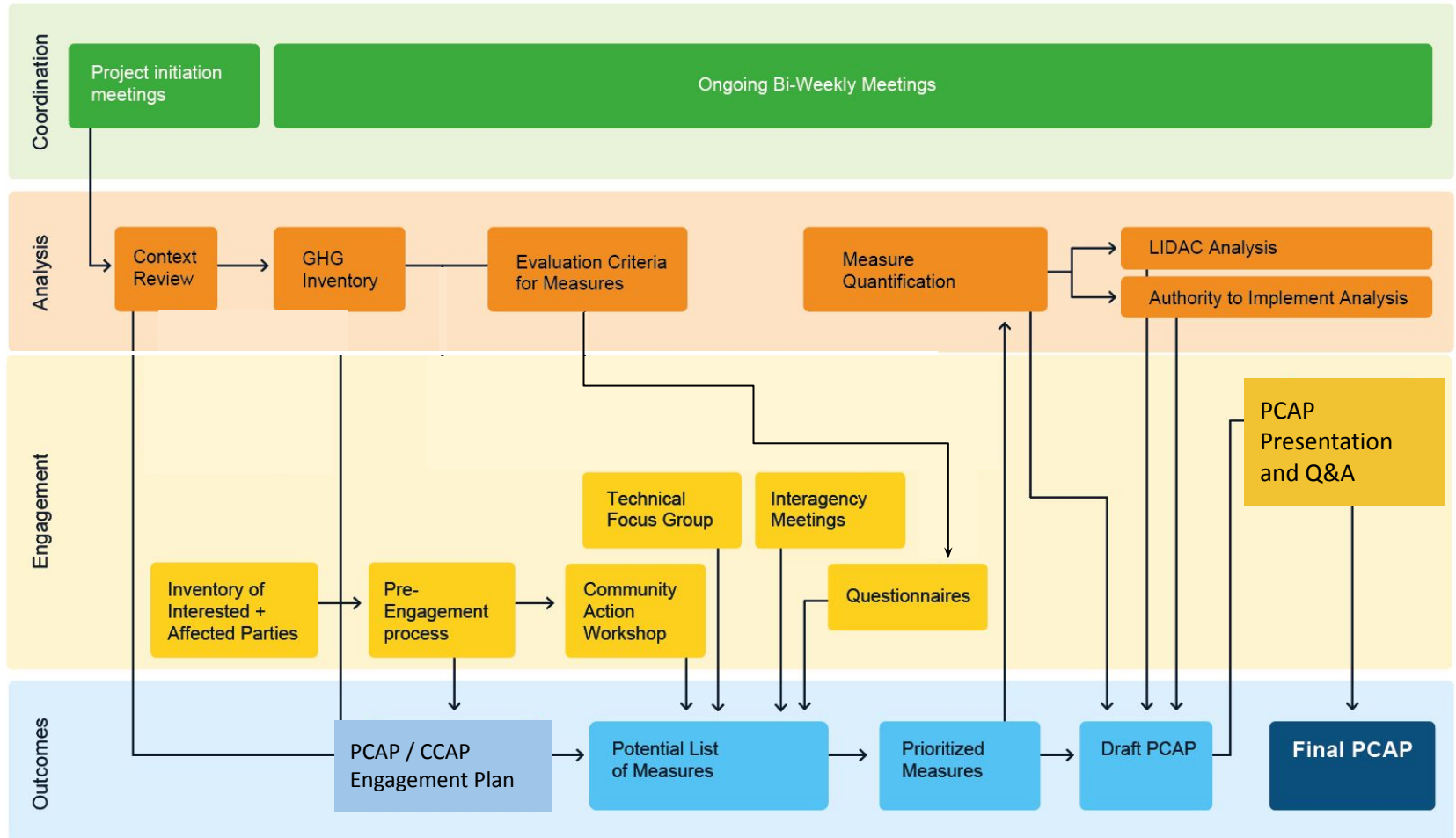- Clean electricity
- Clean fuels and vehicles

A Systematic Approach to Reducing GHG Emissions

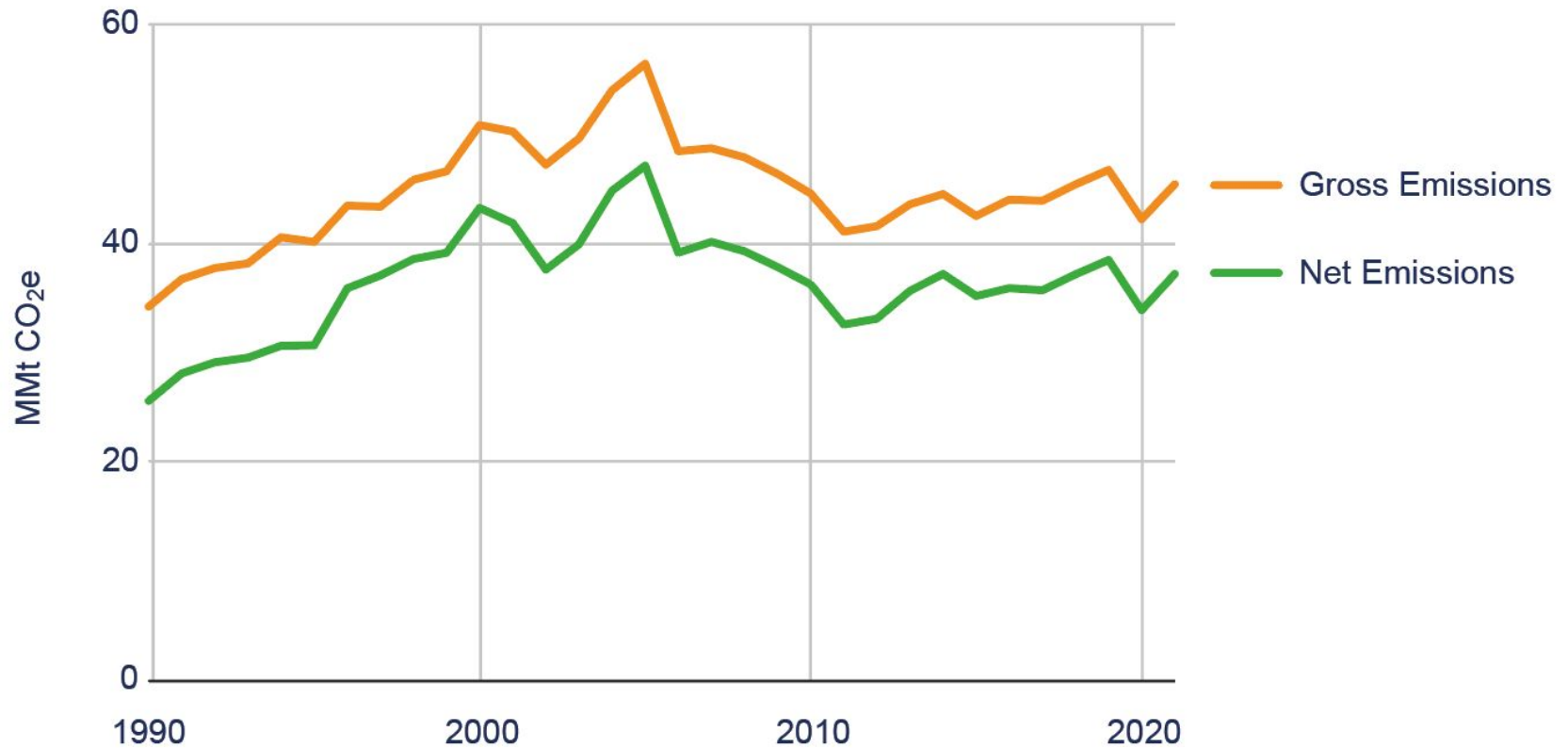# PCAP Process
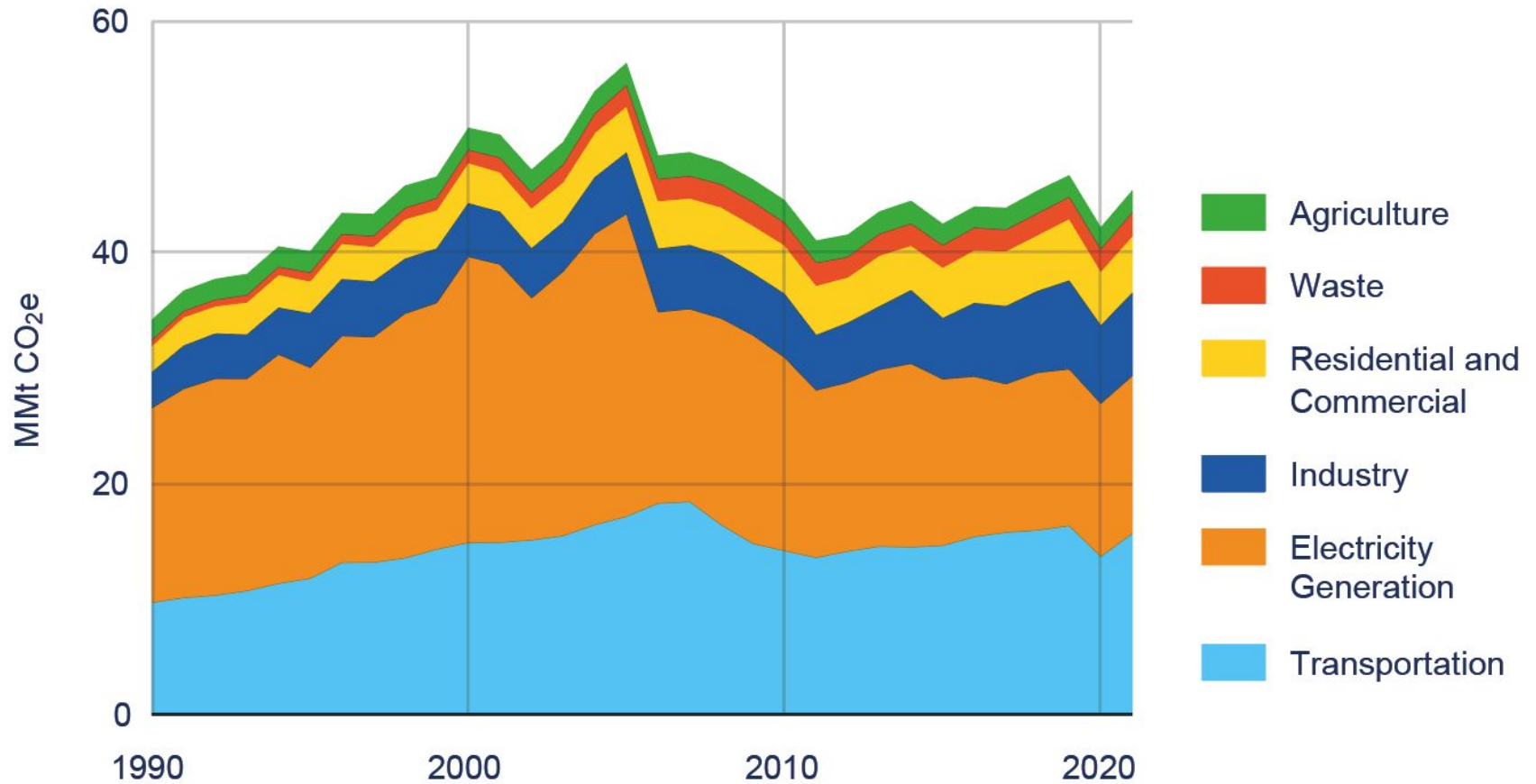
The State of Nevada's PCAP

PCAP
GHG Inventory

GROSS EMISSIONS VS NET EMISSIONS (INCLUDES CARBON SEQUESTRATION)
KEY TAKEAWAYS FROM NDEP GHG EMISSIONS INVENTORY

GROSS EMISSIONS BY SECTOR
KEY TAKEAWAYS FROM NDEP GHG EMISSIONS INVENTORY

NET EMISSIONS (INCLUDES CARBON SEQUESTRATION)
KEY TAKEAWAYS FROM NDEP GHG EMISSIONS INVENTORY
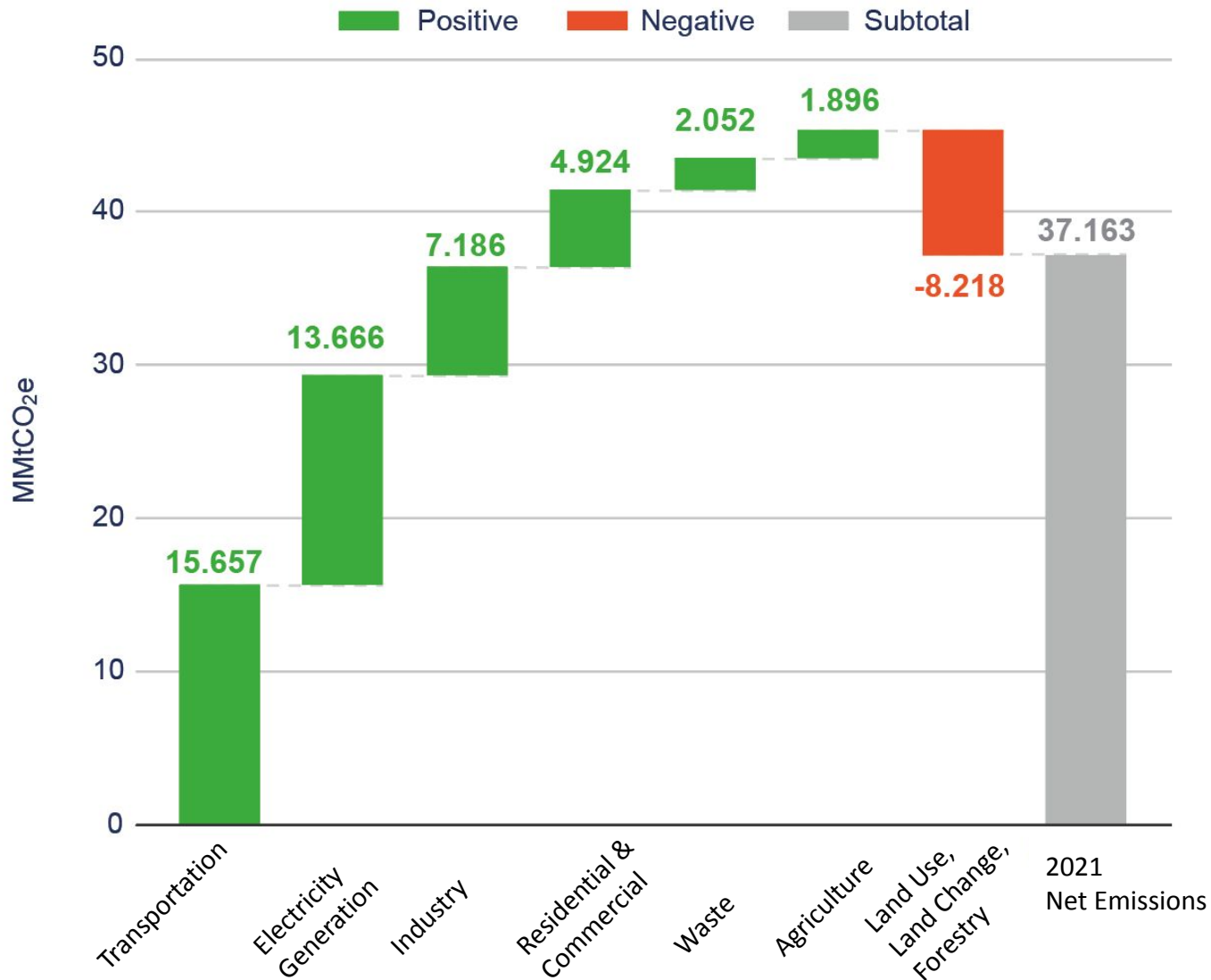
EMISSIONS BY GREENHOUSE GASES
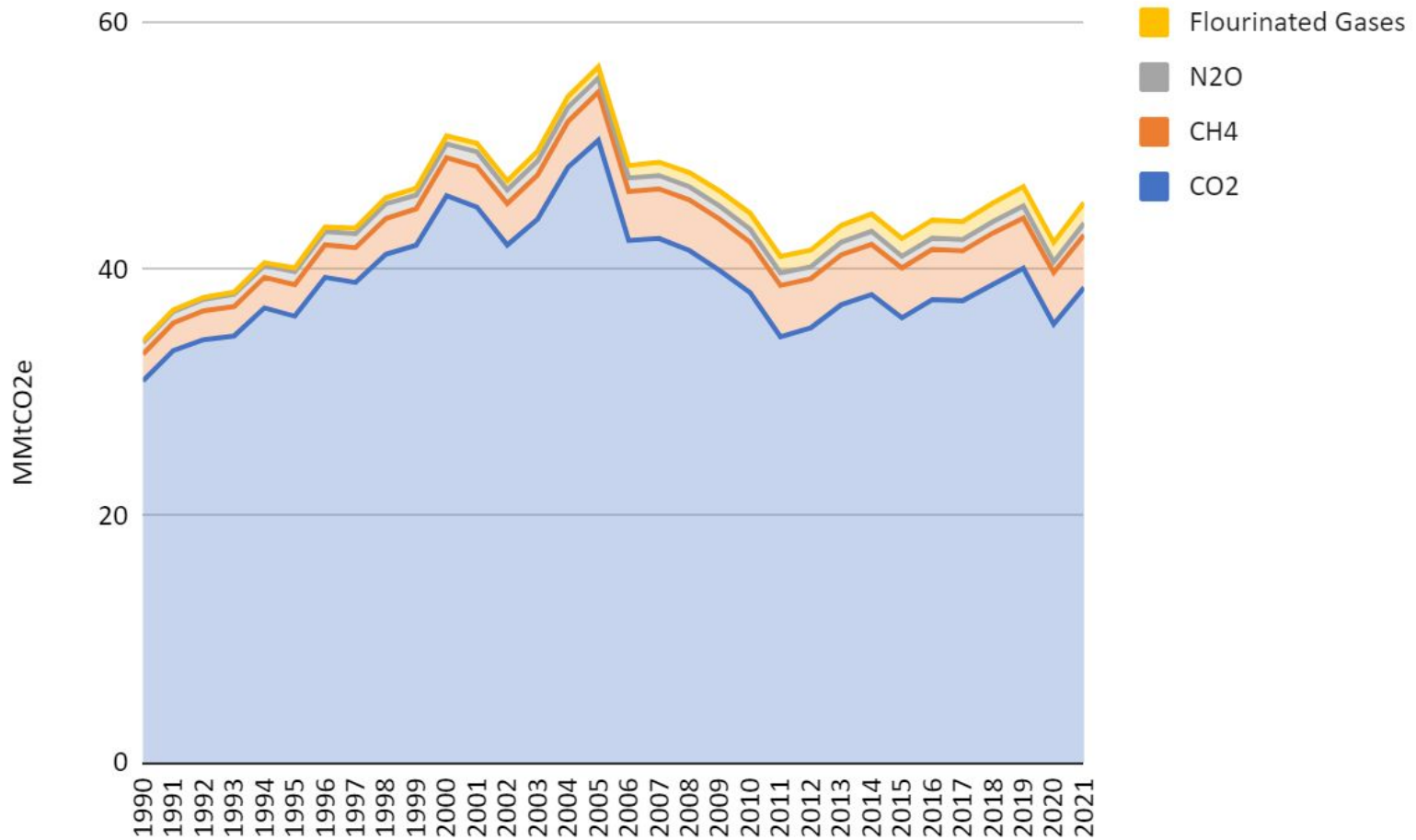
EMISSIONS BY SECTOR
KEY TAKEAWAYS FROM NDEP GHG EMISSIONS INVENTORY

Emissions from most sectors are expected to increase through 2030 if business continues as usual.

2021

2030
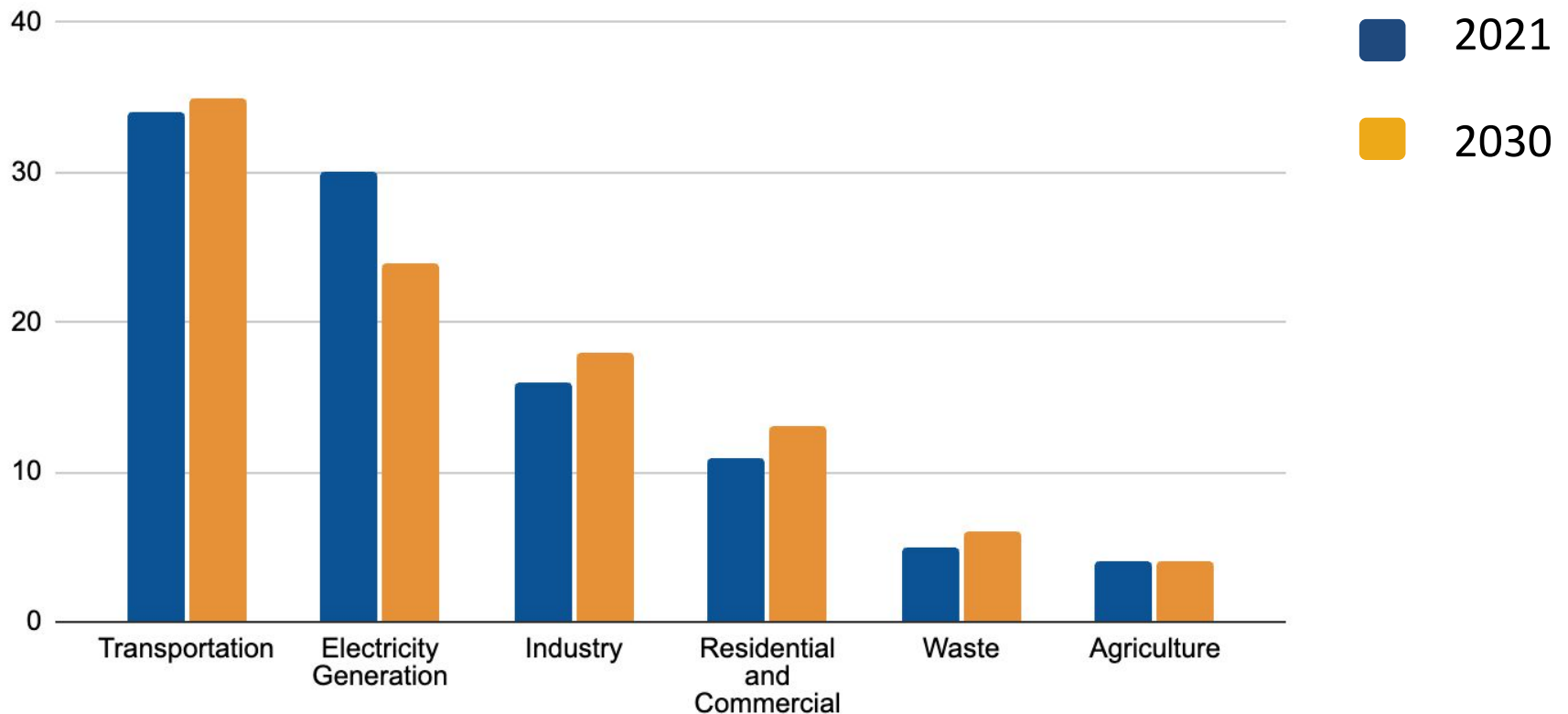
PROJECTED EMISSIONS AND NEVADA´S EMISSIONS TARGETS
BUSINESS-AS-USUAL (BAU) SCENARIO PROJECTIONS

14
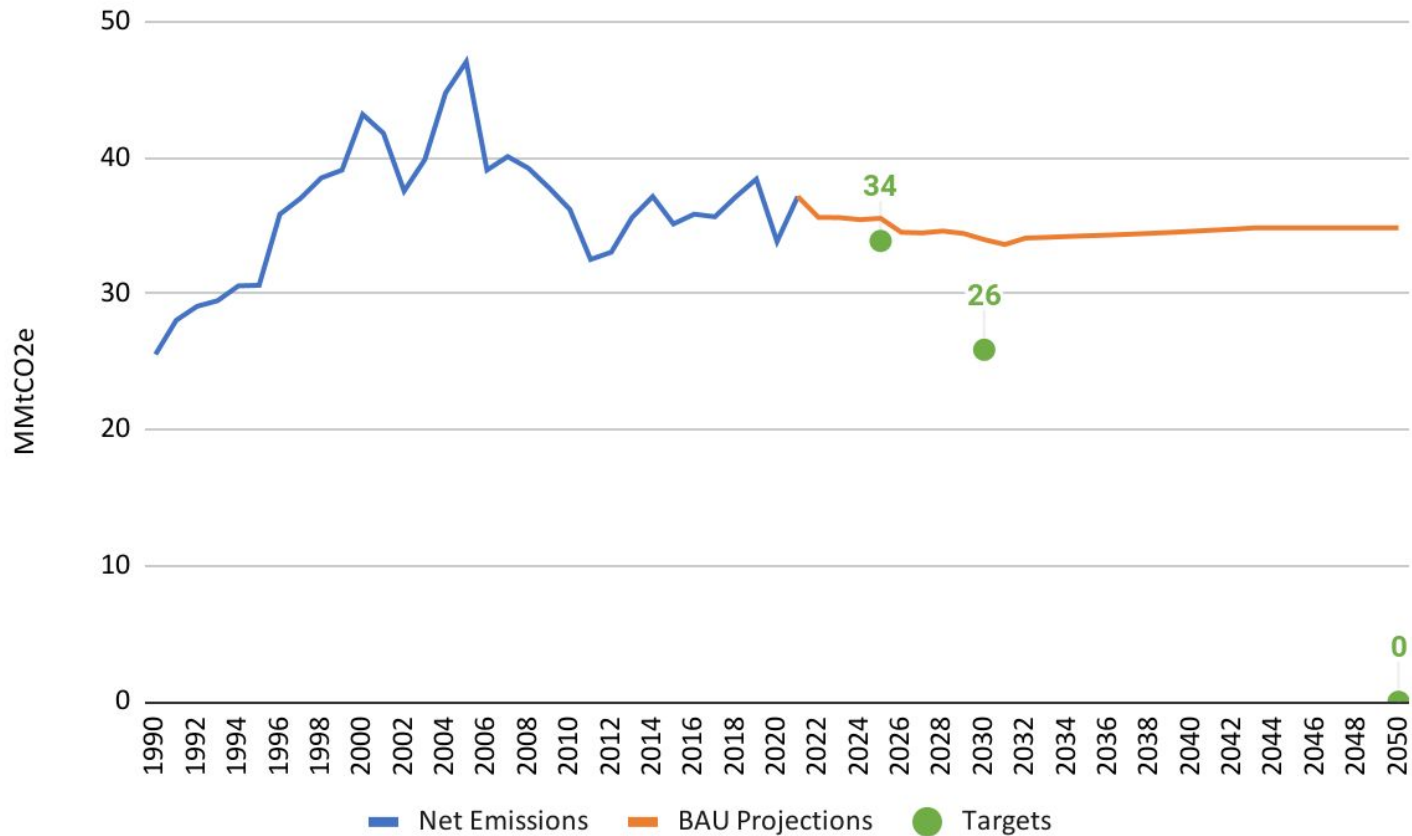
PCAP: A Pathway to achieve Nevada's emission targets
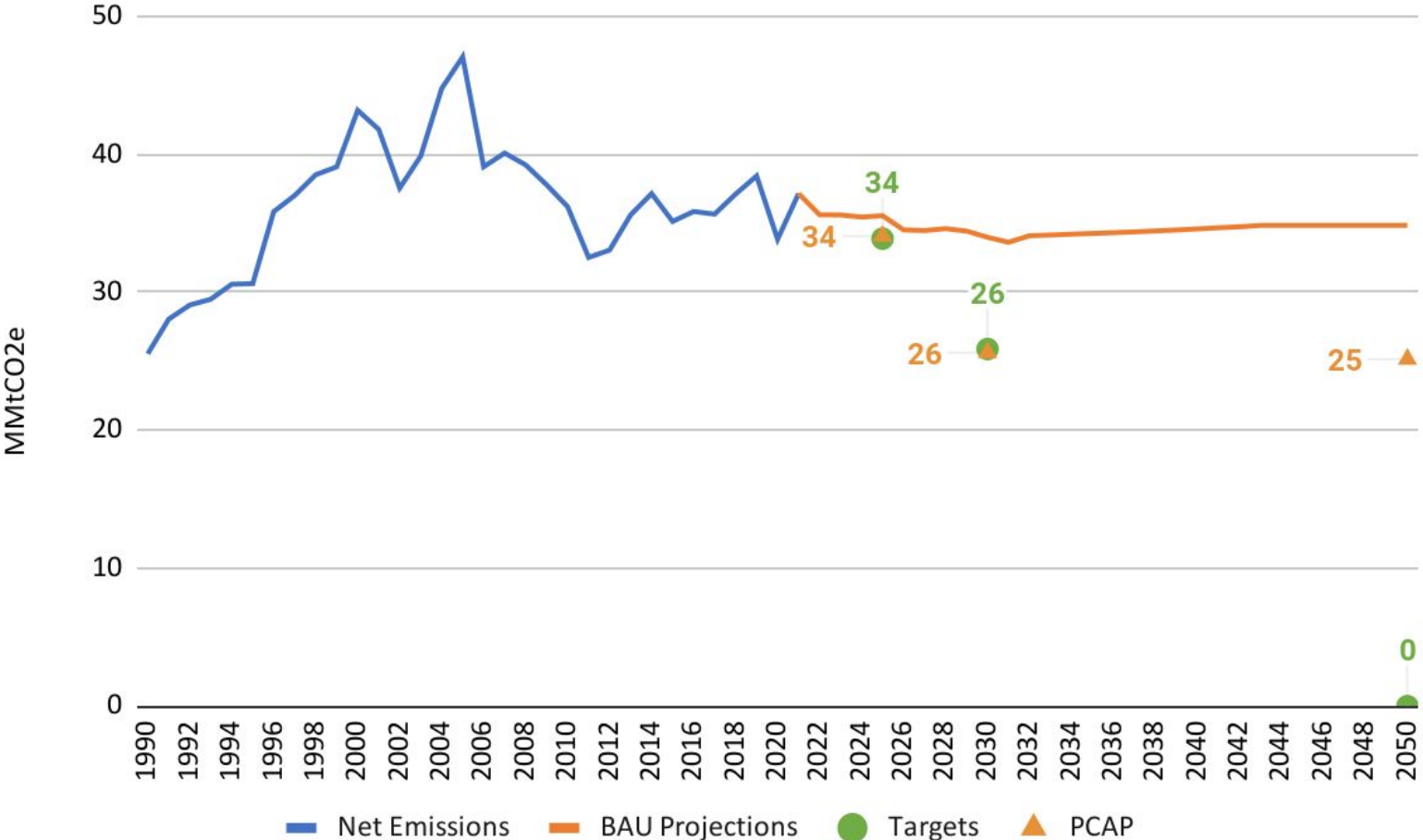
Mapping LIDACs in Nevada
Low-Income and Disadvantaged Communities
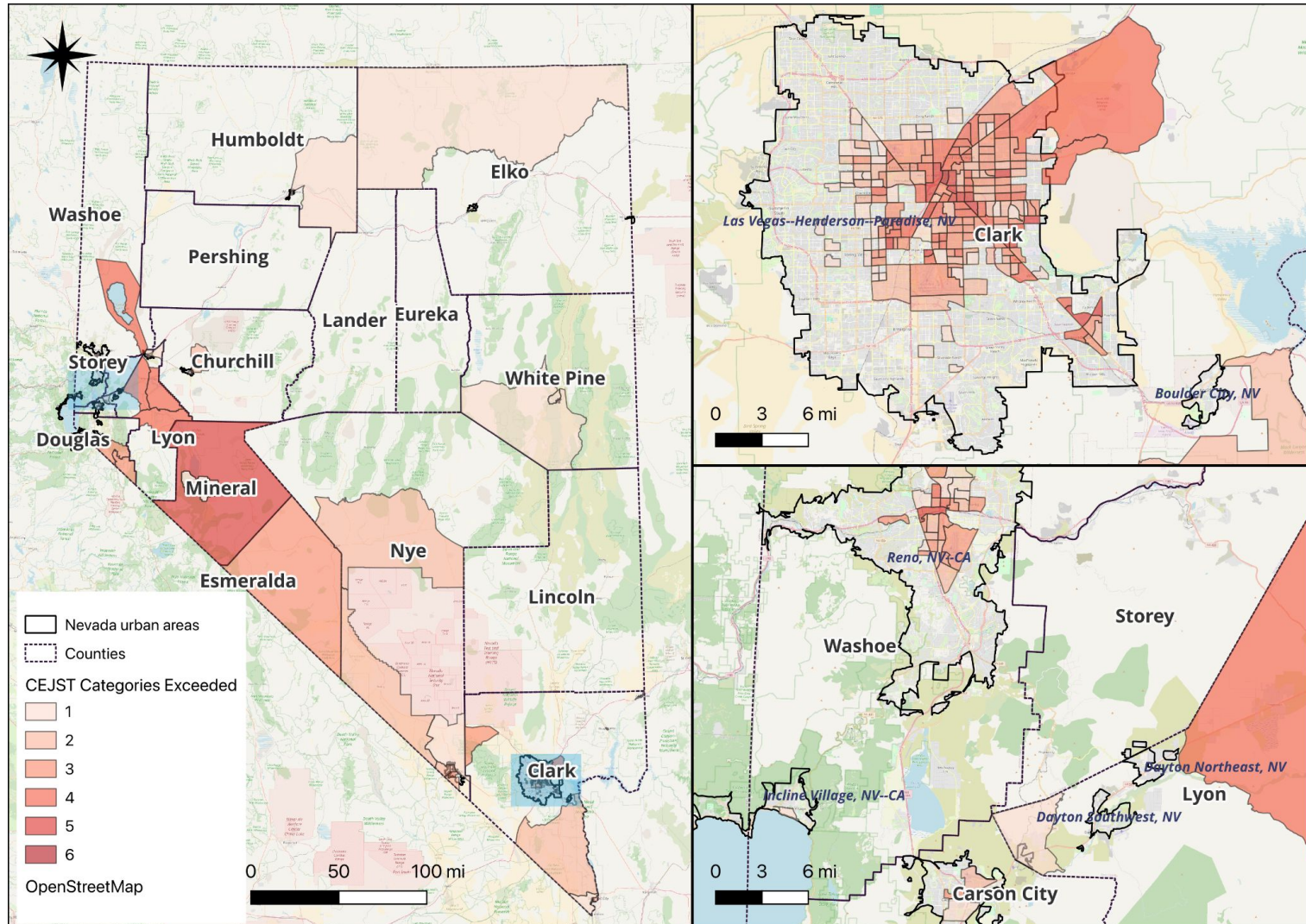
ISSUED FACED BY LIDACS IN NEVADA
LOW-INCOME AND DISADVANTAGED COMMUNITIES

Transportation barriers

Housing cost and quality issues

Legacy pollution, ex. brownfields

Health impacts ex. asthma

Extreme heat and wildfires

Water and wastewater quality Issues

Energy cost burdens

Un-employment and poverty

Nevada Tribes
Key takeaways from US EPA Climate and Economic Justice Screening Tool

Land within the boundaries of Federally Recognized Tribes are designated as LIDACs by the EPA for the purposes of the CPRG program. (EO 13175)

Climate and environmental issues on Tribal Lands include:

- Brownfields, Superfund sites, and toxic air release sites
- High wildfire risk
- Wastewater tank leaks
- Lead paint in housing
- Transportation barriers
- Lack of fresh food access
- Unemployment

Indian Reservations & Colonies of Nevada

Wa She Shu
Washoe

Numu
Northern Paiute

Newe
Western Shoshone

Nuwu
Southern Paiute

1 Duck Valley Indian Reservation
2 Duckwater Indian Reservation
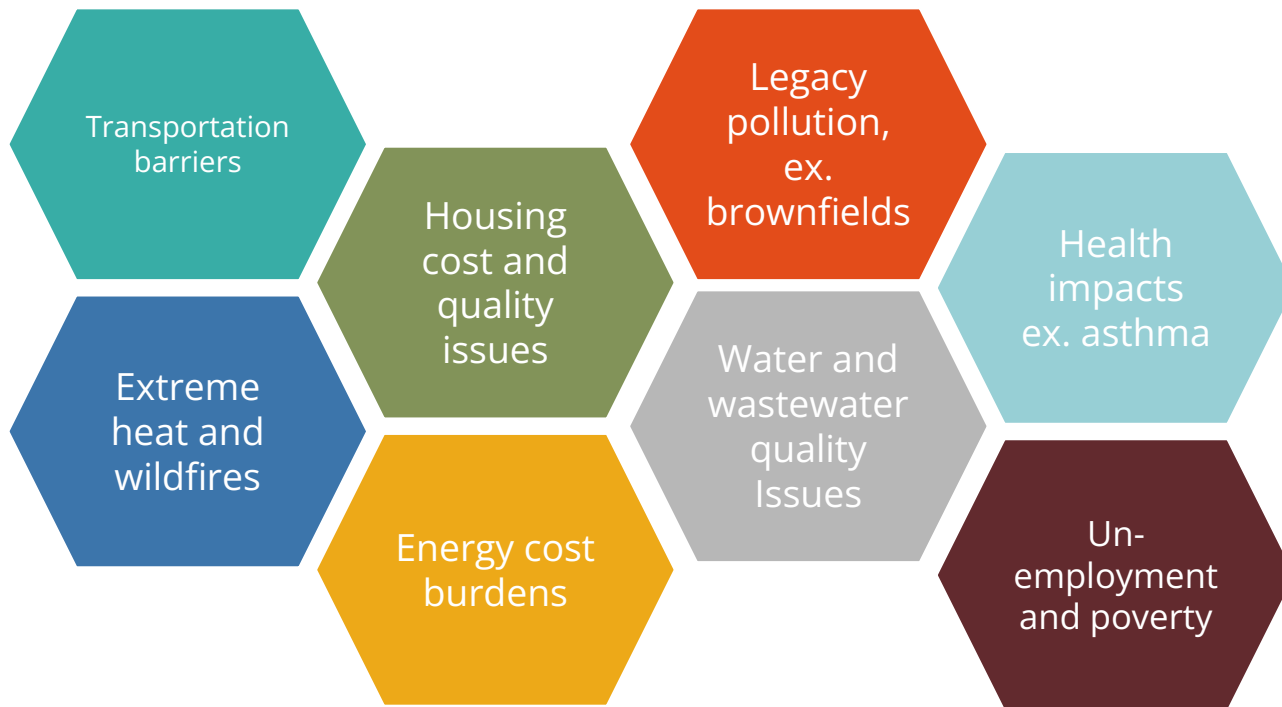3 Ely Indian Colony
4 Fallon Indian Colony
5 Fallon Indian Reservation
6 Ft. McDermitt Indian Reservation
7 Ft. McDermitt Indian Reservation
8 Ft. Mojave Indian Reservation
9 Goshute Indian Reservation
10 Las Vegas Indian Reservation
11 Las Vegas Indian Colony
12 Lovelock Indian Colony
13 Moapa River Indian Reservation
14 Pyramid Lake Indian Reservation
15 Hungry Valley Community
16 Reno-Sparks Indian Colony
17 Summit Lake Indian Reservation

TE-MOAK SHOSHONE TRIBE
18 Battle Mountain Indian Colony
19 Elko Indian Colony
20 South Fork Indian Colony
21 South Fork Indian Colony
22 Wells Indian Colony
23 Timbisha-Shoshone Tribe
24 Walker River Indian Reservation

WASHOE TRIBE OF NEVADA & CALIFORNIA
25 Carson Indian Colony
26 Dresslerville Indian Colony
27 Stewart Indian Community
28 Woodfords Indian Community
29 Winnemucca Indian Colony
30 Yerington Indian Reservation
31 Yerington Indian Colony
32 Yomba Indian Reservation

Source: Nevada Indian Commission

PCAP
Measures

PCAP Focus Areas

1 Transportation

2 Buildings

3 Energy System

4 Industry

5 Waste Reduction

6 Restore and Sequester

HOW TO READ THE PCAP

Focus Area → List of Priority Measures by Focus Area → Example combinations of priority measures into programs
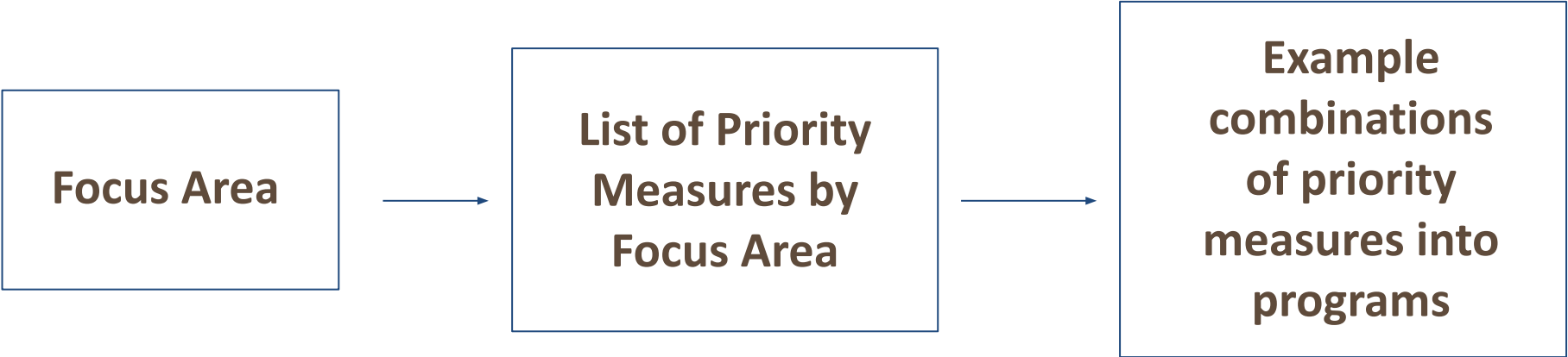
TRANSPORTATION MEASURES

1. Decarbonize Fuels

T1.1 - Reduce carbon intensity of transportation fuels

T1.2 - Support low carbon sustainable aviation fuel development

1. Build Capacity

T2.1 - Build technical capacity at public agencies

T2.2 - Create public databases

T2.3 - Enhance workforce, maintenance, and repair capacity

T2.4 - Implement a public outreach and education campaign

TRANSPORTATION MEASURES

3. Transition to Zero Emission Vehicles

T3.1 - Incentivize public fleet electrification (state, county, cities, schools)

T3.2 - Incentivize large commercial fleet electrification (medium and heavy duty vehicles)

T3.3 - Electric vehicle and charger rebates, prioritizing LIDACs

T3.4 - E-bike+ (e-cargo bikes, e-motorcycles, e-scooters) rebates for individuals and businesses, prioritizing LIDACs

T3.5 - Support EV carsharing initiatives

4. Develop Infrastructure

T4.1 - Develop public fleet electric vehicle supportive infrastructure (EVSE)

T4.2 - Update and expand the Nevada Electric Vehicle Infrastructure (NEVI) Deployment Plan

T4.3 - Repair existing EVSE and expand the EV charging network with a focus on LIDACs and key tourist destinations

T4.4 - Develop infrastructure for ZEV medium and heavy duty vehicles

T4.5 - Incentivize EV chargers in new construction

T4.6 - Fasttrack bike and pedestrian network infrastructure

T4.7 - Expand public transit in urban and rural areas, focusing on LIDACs

TRANSPORTATION PROGRAM EXAMPLE:
CLEAN TRANSPORTATION FOR ALL

Description:

Develop a comprehensive strategy, including program development, grant and technical assistance, and educational programming, to promote clean transportation options for all.

Provide incentives particularly for low-income people living in priority areas and businesses operating in low-income areas to replace old polluting vehicles with new, clean transportation.

Selected Priority Measures:

- T2.1 - Build capacity at public agencies
- T2.2 - Create public databases
- T2.4 - Public outreach and education campaign
- T3.3 - Electric vehicle and charger rebates, prioritize LIDACs
- T3.4 - E-bike+ (e-cargo bikes, e-motorcycles, e-scooters) rebates for individuals and businesses, prioritize LIDACs
- T3.5 - Support EV carsharing initiatives

BUILDINGS MEASURES

1. **Build Capacity**

 B1.1 - Education and outreach campaign

 B1.2 - Workforce development

 B1.3 - Build technical capacity at public agencies

 B1.4 - Create public databases

1. **Expand Financing**

 B2.1 - Expand Nevada Clean Energy Fund

 B2.2 - Explore potential of R-PACE to support financing of pre-weatherization and retrofits.

 B2.3 - Explore the potential of alternative financing mechanisms such as community land trusts, on-bill financing, CPRG Revolving Loan Fund.

BUILDINGS MEASURES
CONTINUED

3. Retrofit Buildings

B3.1 - Statewide public building deep energy retrofit program, prioritize schools in LIDACs

B3.2 - Statewide residential deep energy retrofit program, prioritize LIDACs

B3.3 - Statewide commercial deep energy retrofit program, prioritize businesses in LIDACs

B3.4 - Convert mobile home power from gas to electric

B3.5 - Incentivize high efficiency, all-electric new buildings

B3.6 - Pair retrofits with onsite renewable energy (rooftop solar)

3. Transform Communities

B4.1 - Empower community retrofit organizations (i.e. non-profits, co-ops)

B4.2 - Fund and support a tribal climate coalition.

B4.3 - Target 1-3 LIDACs for complete low carbon transformation projects

B4.4 - Incentivize EV chargers in multifamily housing

B4.5 - Incentivize rooftop solar installations in multifamily housing

BUILDINGS PROGRAM EXAMPLE:
TRANSFORM AN ENTIRE COMMUNITY

Description:

Support the development of a holistic emissions-free and energy-affordable community, including adding key services within walking/biking distance; developing transit infrastructure; housing retrofits; solar generation; and a district energy system.

Ex. East Las Vegas near Stewart Ave

Selected Priority Actions:

- B3.1 - Statewide public building deep energy retrofit program, prioritize schools in LIDACs
- B3.2 - Statewide residential deep energy retrofit program, prioritize LIDACs
- B3.6 - Pair retrofits with onsite renewable energy (rooftop solar)
- B4.1 - Empower community retrofit organizations (i.e. non-profits, co-ops)
- B4.3 - Target 1-3 LIDACs for complete low carbon transformation projects

ENERGY SYSTEMS MEASURES

- -

1. Build Capacity

E1.1 - Build technical capacity at public agencies

E1.2 - Create public databases of renewable energy, energy storage, grid enhancement, green hydrogen and biofuels installations

E1.3 - Enhance workforce, maintenance, and repair capacity

E1.4 - Public outreach and education

1. Accelerate Renewable Energy Generation

E2.1 - Fund community renewable projects and renewable cooperatives

E2.2 - Incentivize renewable energy and energy storage projects with enhanced community benefits

E2.3 - Expand Transmission Facilitation Program

E2.4 - Work with utilities to develop and implement comprehensive grid modernization plans, with a focus on LIDACs

E2.5 - Incentivize behind the meter and/or smart-grid technologies

E2.6 - Incentivize and support green fuel production project

E2.7 - Incentivize enhanced geothermal

3. Clean the Grid

E3.1 - Incentivize fossil fuel-powered thermal power plants to retrofit to use green hydrogen- based fuels

E3.2 - Incentivize adoption of Carnot batteries for storing surplus green electricity

3. Clean Energy Hubs

E4.1 - Identify former mine lands and brownfields and characterize their potential

E4.2 - Design suitable business models for each potential clean energy hub

E4.3 - Incentivize the implementation of clean energy hub in mine lands and brownfield

ENERGY SYSTEMS PROGRAM EXAMPLE:
SOLAR GARDENS/SOLAR COOPERATIVE PROGRAM

Description:

Support the development of community energy plans by providing state-backed loans and grants for community-scale renewable and energy storage projects. Support the creation of "Solar Gardens" and/or solar cooperatives to help generate electricity for rural and smaller communities.

Selected Priority Actions:

- E1.1 - Build technical capacity at public agencies
- E1.2 - Create public databases of renewable energy installations
- E1.3 - Enhance workforce, maintenance, and repair capacity
- E1.4 - Public outreach and education
- E2.1 - Fund community renewable projects and renewable cooperatives
- E2.2 - Incentivize renewable energy and energy storage projects with enhanced community benefits
- E2.5 - Incentivize behind the meter and/or smart-grid technologies

INDUSTRY MEASURES

- -

1. Build Capacity

I1.1 - Build technical capacity at public agencies to plan for, procure, and implement clean industrial initiatives

I1.2 - Create public databases of clean industrial initiatives

I1.3 - Enhance workforce, maintenance, and repair capacity to support planning, implementation

I1.4 - Public outreach and education to encourage industries to deploy emission reduction activities

1. Decarbonize Energy Intensive Industries

I2.1 - Incentivize repurposing former industrial sites and brownfields into clean energy hubs

I2.2 - Incentivize the production of renewable energy and Green H2 near energy intensive industrial facilities

I2.3 - Incentivize the implementation of clean technologies, including energy efficiency and electrification of industrial processes and heat batteries

I2.4 - Incentivize H2-fueled or electric mining trucks and vehicles

3. Reduce Industrial Emission

I3.1 - Incentivize innovative projects related to hard-to-electrify sector

I3.2 - Incentivize methane leak, detection, repair and utilization programs

I3.3 - Incentivize programs and initiatives that take a holistic approach to transforming industrial sites

INDUSTRY PROGRAM EXAMPLE:
CLEAN INDUSTRY PROGRAM

Description:

Capitalize on IRA's financial incentives for renewable energy and Green H2 to increase development and implementation of clean technologies including energy efficiency and electrification of industrial processes, heat batteries, and promoting H2-fueled or electric mining trucks and vehicles.

Selected Measures:

- I1.1 - Build technical capacity at public agencies
- I1.2 - Create public databases of clean industrial initiatives
- I1.3 - Enhance workforce, maintenance, and repair capacity
- I1.4 - Public outreach and education
- I2.2 - Incentivize the production renewable energy and Green H2 near energy intensive industrial facilities
- I2.3 - Incentivize the implementation of clean technologies including energy efficiency and electrification of industrial processes and heat batteries
- I2.4 - Incentivize H2-fueled or electric mining trucks and vehicles

WASTE REDUCTION MEASURES

- -

1. Build Capacity

W1.1 - Develop an education and outreach campaign to help residents understand how to reduce organic waste

W1.2 - Develop a plan for piloting or scaling-up green waste curbside collection and composting

W1.3 - Support research and development on the circular economy

1. Reduction and Diversion Programs

W2.1 - Encourage local governments to pilot waste diversion and sustainable materials management

W2.2 - Encourage residents and businesses to reduce waste and replace single-use plastics

W2.3 - Incentivize food diversion and recovery programs for businesses of all sizes.

W2.4 - Develop a state-wide green business certification program

W2.5 - Create a sustainable building materials management toolkit for businesses to reduce waste from construction, renovation, demolition, and retrofit projects.

W2.6 - Incentivize methane capture and utilization in waste management facilities

WASTE PROGRAM EXAMPLE:

ORGANIC WASTE DIVERSION PROGRAM

- -

Description:

Incentivize waste diversion and composting which includes piloting and evaluating the feasibility of scaling up curbside green waste collection and composting.

Selected Measures:

- W1.1 Develop an education and outreach campaign to help residents understand how to reduce organic waste and its importance
- W1.2 Develop a plan for piloting and scaling-up green waste curbside collection and composting (state and county level)
- W2.1 Encourage local governments to pilot waste diversion and sustainable materials management
- W2.2 Encourage residents and businesses to reduce waste and replace single-use plastics
- W2.3 Incentivize food diversion and recovery programs for businesses of all sizes

RESTORE LANDSCAPES AND SEQUESTER CARBON MEASURES

1. **Build Capacity**

R1.1 - Support community organizations in LIDACs and Tribes with restoration planning and implementation

R1.2 - Develop a plan for statewide ecological restoration and carbon sequestration

R1.3 - Support research and development in carbon sequestration and restoration projects

1. **Restore and Sequester**

R2.1 - Expand NDEP's Brownfields Program to incentivize carbon sequestration on brownfield sites

R2.2 - Incentivize ecological restoration projects with enhanced community benefits

R2.3 - Increase the coverage and health of the tree canopy

R2.4 - Develop climate-smart agricultural practices

R2.5 - Support carbon sequestration via green infrastructure, active transportation, and renewable energy projects

RESTORE AND SEQUESTER PROGRAM EXAMPLE:
COMMUNITY-BASED RESTORATION PROJECTS
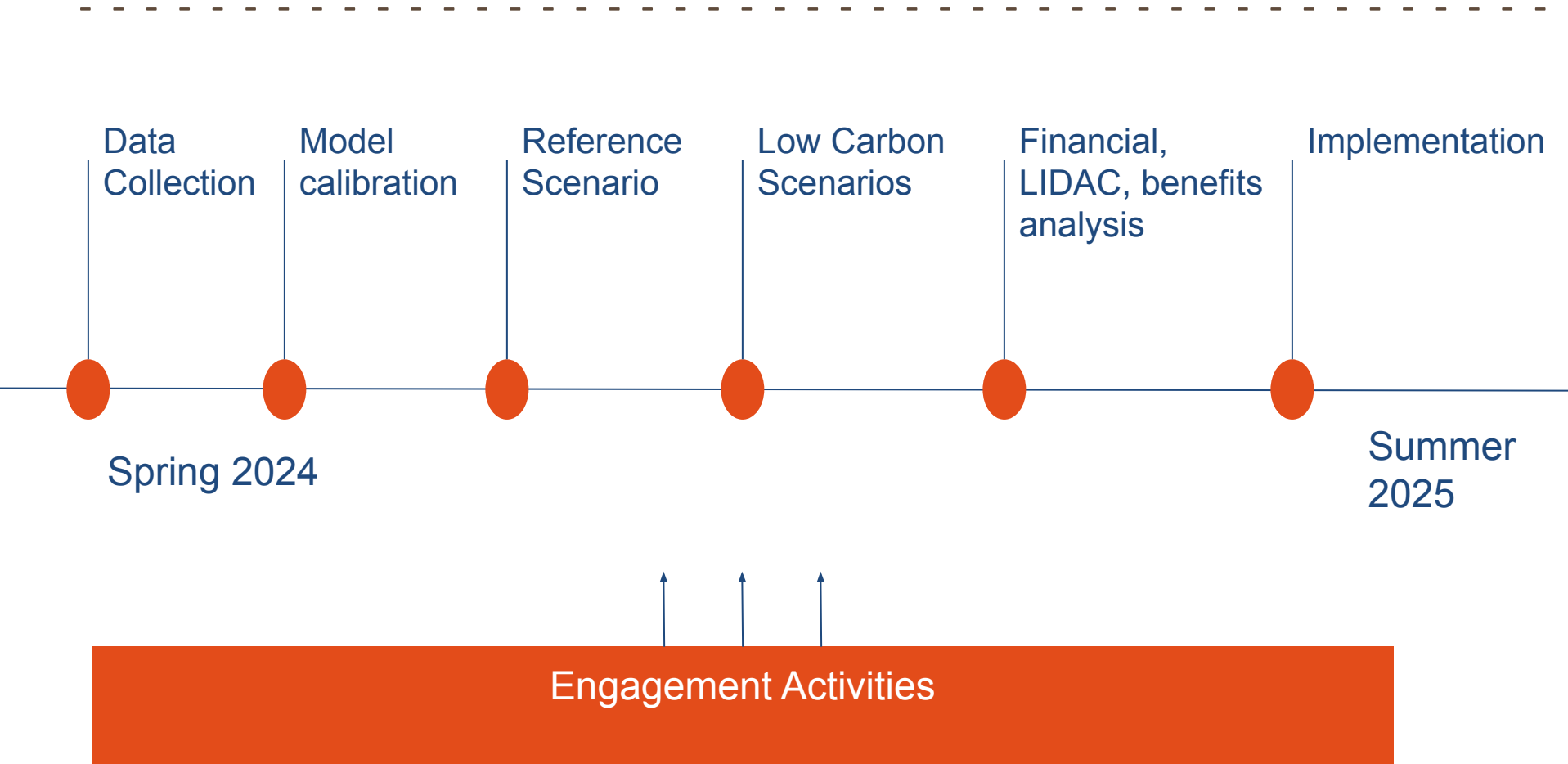
Description:

Support existing state land conservation goals and ecological restoration programs, and develop new programs on healthy soils, urban forestry, and green infrastructure/adaptive reuse, linking these efforts with active transportation and renewable energy projects where possible.

Selected Measures:

- R1.1 - Support community organizations in LIDACs and Tribes with restoration planning and implementation
- R1.2 - Develop a plan for statewide ecological restoration and carbon sequestration
- R1.3 - Support research and development in carbon sequestration and restoration projects
- R2.3 - Develop healthy soils incentivization program for agriculture sector
- R2.4 - Support carbon sequestration via green infrastructure, active transportation, renewable energy projects

Next Steps

CCAP Process

Comments

Please submit comments by February 22.

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https://ndep.nv.gov/air/climate-pollution-reduction-grant

Email: ndep.cprg@ndep.nv.gov