NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

Nevada Department of CONSERVATION & NATURAL RESOURCES

UPDATES ON THE COMPREHENSIVE CLIMATE ANALYSIS FOR NEVADA (CCAN)

Overview of the CCAN

This process is a detailed examination of opportunities for emission reduction in the State. It will provide governments, businesses, non-profits, and residents with a key resource for making informed decisions about climate measures that may be helpful for them and their communities. The analysis will demonstrate the GHG emission potential and co-benefits of climate measures (i.e. increased economic development and job creation, air pollutant reduction, expanded energy independence advancing state and national security, etc.) as well as suggest measures that could be implemented for achieving these benefits.

Emission Reduction Pathways for Nevada

Emission reduction pathways will be modeled using local data on energy supply and use; sources in sectors like buildings, transportation, and electricity generation; and projected population and employment growth. The Scena model will produce different scenarios of how energy use and the resulting GHG emissions will change over time and space. Land use change, policies, and other measures will be modeled together to create potential scenarios for the future of emissions in Nevada, including source-by-source emission reduction pathways.

BUSINESS AS USUAL
if Nevada continues on the same path

BUSINESS AS PLANNED
if Nevada implements its current intentions

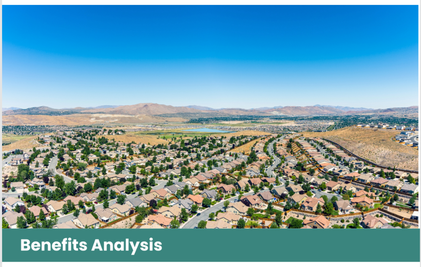
ALTERNATIVE FUTURES
a range of possible emission scenarios to explore the impact of various potential actions.

Financial Analysis

Climate measures are part of prudent financial management. The CCAN will include financial analyses of emission reduction actions to demonstrate the investment needed and potential cost savings over time. This analysis will show the capital costs to implement each action (i.e. building retrofits, electrification of transit, installation of renewable energy, etc.) and the associated savings accumulated over time (i.e. reduced fuel, operations, and maintenance costs). It will assess the total capital required by sector and year, operating costs by sector and measure, and costs and benefits of each emission reduction scenario.

It will also provide estimates of employment impacts across sectors and emission reduction measures, and provide analysis for workforce development planning. This analysis can then be used to identify financial opportunities and support applications to leverage federal and state funding.

Financial Snapshot: If all new homes in Nevada are built to the State's highest energy conservation code (IECC 2021), the average new homeowner in Nevada can expect to save 9.7% which equates to $181 annually on their utility bills.



Benefits Analysis

The analysis will assess benefits ranging from the regional level down to individual households. It will consider the impact of policies, programs, and strategies on:

- **AVERAGE INDIVIDUAL HOUSEHOLD**
- **NEIGHBOR-HOODS**
- **DWELLING TYPES** (DETACHED, ROW, APARTMENTS, ETC.)
- **HOUSEHOLD INCOME LEVELS**

Recognizing that climate measures should benefit all groups in the community, the CCAN will include a separate analysis focused on the advantages for low-income and historically underserved communities aiming to address the social, environmental, economic, and public health burdens that these communities face. Some examples include:

- **REDUCTION OF HARMFUL OR HAZARDOUS POLLUTANTS AND THE ASSOCIATED HEALTH IMPACTS**
- **ACCESSIBLE HOUSING RETROFITS AND REDUCED HOUSEHOLD ENERGY BURDEN**
- **EXPANDED PUBLIC TRANSIT AND ACCESS TO ESSENTIAL SERVICES**
- **WORKFORCE DEVELOPMENT IN EMERGING ENERGY SECTORS AND LIVING-WAGE EMPLOYMENT**

Equity Snapshot: 37% of census areas in Nevada are considered low-income or disadvantaged and over 25% of homes in Nevada are poorly insulated homes.

Engagement Process

A Technical Working Group (TWG) will be formed with organizations that have subject matter expertise, a role related to environmental and sustainability topics, and commitment to benefits for the people and environment of Nevada.

The TWG will provide feedback and comments at key points in the technical analysis to support the development of the CCAN.

In February 2025, regional meetings will be held in Las Vegas, Reno, and online, with a specific meeting dedicated to rural emission reduction actions. The meetings will be open to the general public, and will focus on:

- **OPPORTUNITIES FOR EMISSION REDUCTION**
- **IDEAS AND PRIORITIES FOR IMPLEMENTATION**

Please get in touch if you have ideas you would like to see considered in the analysis. Connect with Nevada's CCAN Team:

ndep.nv.gov/air/climate-pollution-reduction-grant | ndep.cprg@ndep.nv.gov

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