



UPDATES ON THE COMPREHENSIVE CLIMATE ANALYSIS FOR NEVADA (CCAN)

This newsletter provides an update on the Comprehensive Climate Analysis for Nevada (CCAN). It includes a summary of the work so far, demonstrating potential future emission reduction pathways in Nevada.



Overview of the CCAN

The CCAN 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. Alongside the GHG emission reduction potential, the analysis presents co-benefits of each proposed climate measure (i.e. increased economic development and job creation, air pollutant reduction, and expanded energy independence) It also lays out the framework for how to implement and achieve these benefits.



Emission Reduction Pathways for Nevada

Three emission reduction pathways demonstrate the impact of ambitious measures, applied at different rates and in different ways, on the future of emissions in Nevada. The pathways were modeled using local data on energy supply and use; information from sources in sectors like buildings, transportation, and industry; and projected population and employment growth. The Scena model produced different scenarios of how energy use and the resulting GHG emissions would change over time and space. Land use change, policies, and other measures were modeled together, including source-level changes in emissions.

Starting Point

Two reference scenarios estimate future emissions without considering any new climate actions, and provide a comparison for lower emission scenarios.

• BUSINESS-AS-USUAL (BAU) SCENARIO

Assumes population and job growth continue but no plans, policies, or programs, that would impact GHG reductions are implemented.

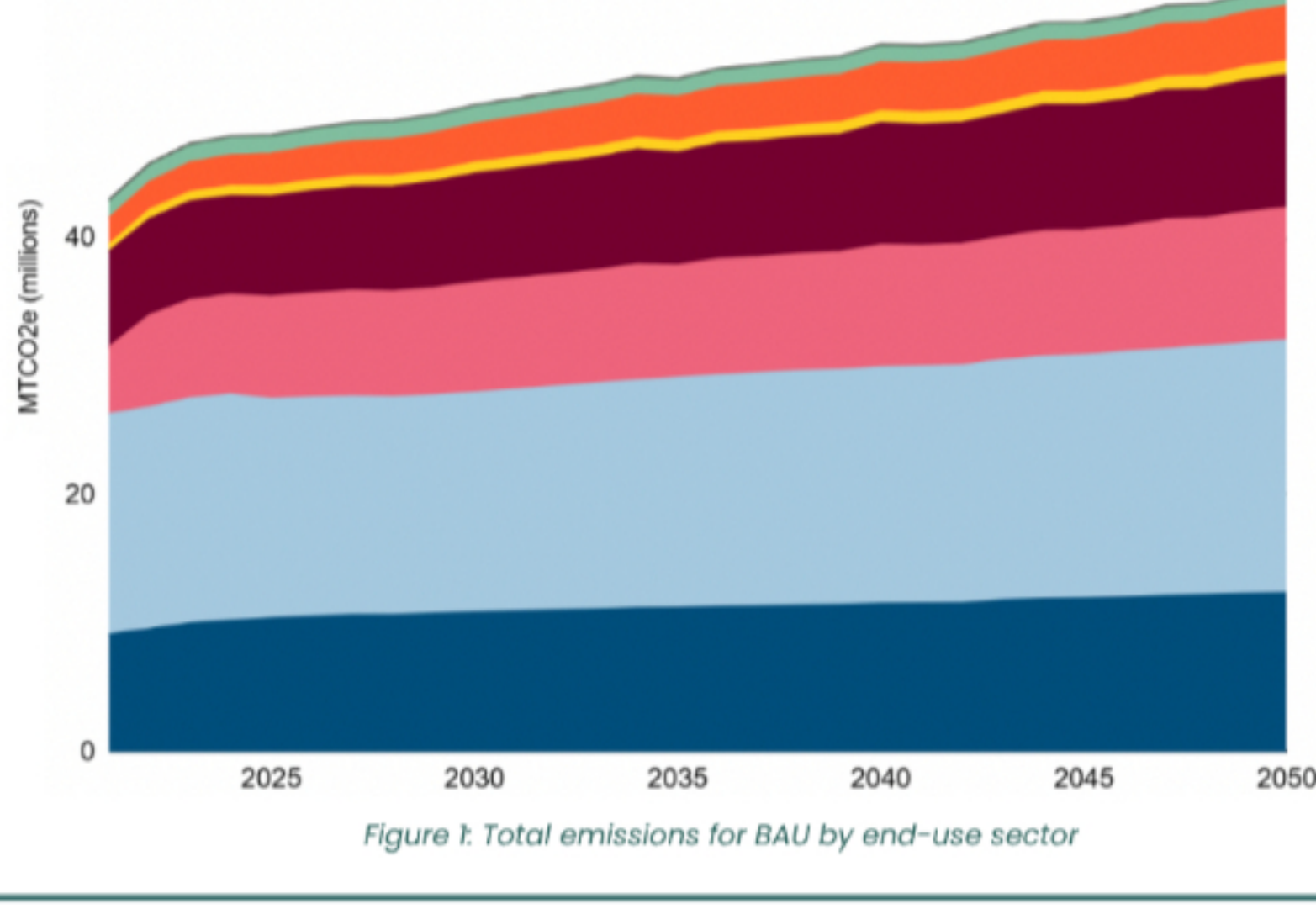


Figure 1: Total emissions for BAU by end-use sector

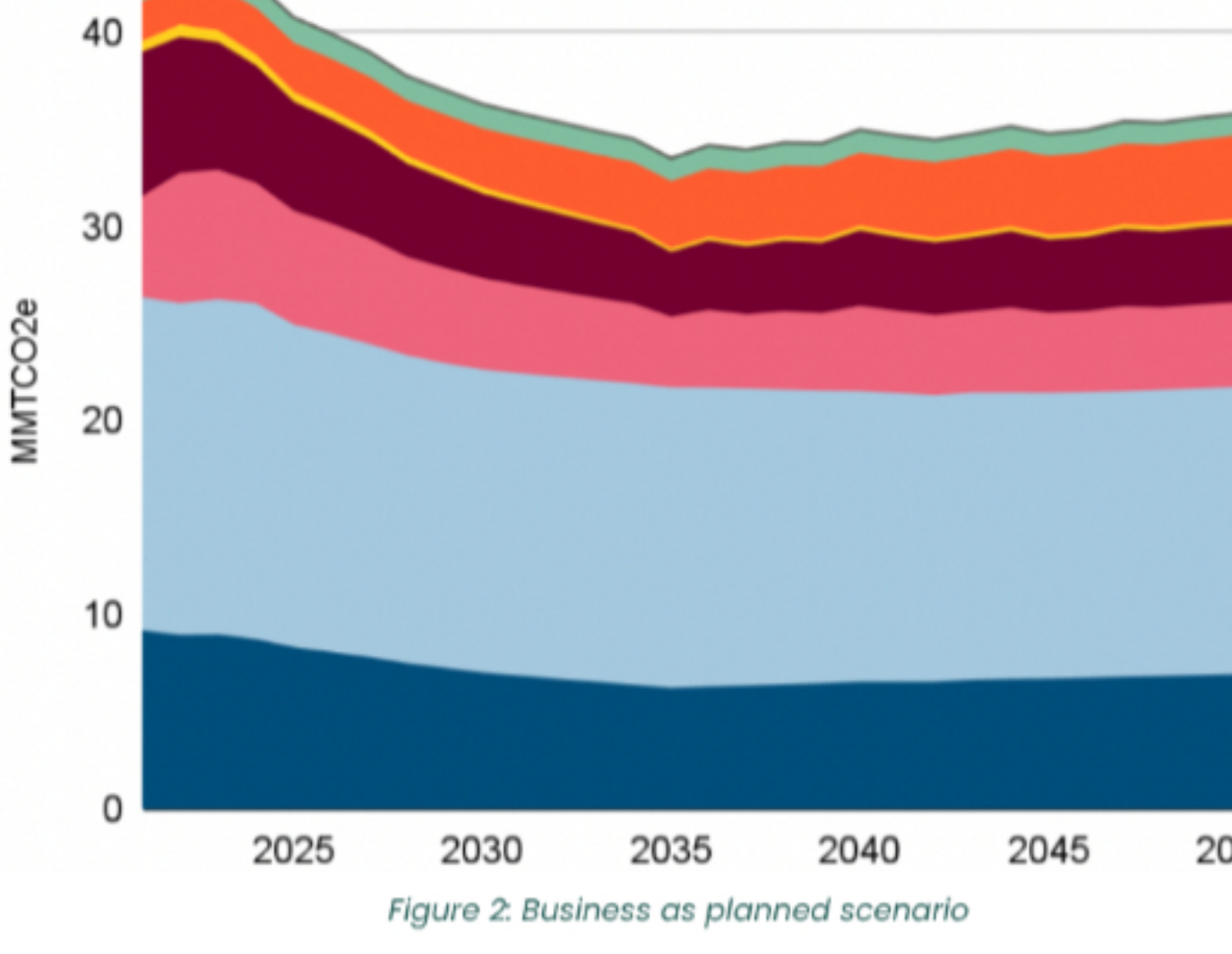


Figure 2: Business as planned scenario

• BUSINESS-AS-PLANNED (BAP) SCENARIO

Assumes population and job growth continue and existing and approved plans, policies and programs are implemented.

With no policies or programs implemented under the BAU scenario, net emissions are projected to increase by 47%, rising from 35.4 MMTCO₂e in 2021 to 52 MMTCO₂e in 2050. In contrast, the BAP scenario, which includes emission reductions from current policies and programs, projects a 20% reduction or 7.1 MMTCO₂e in emissions by 2050.

***MMTCO₂e = million metric tons of carbon dioxide equivalent**

Emission Reduction Scenarios

There are multiple pathways to reduce emissions, nearly to zero by 2050. Three scenarios have been developed and evaluated to examine potential pathways for Nevada, considering a variety of measures and various implementation assumptions. They are not predictions, but plausible, evidence-based projections that reflect how emissions in Nevada could evolve.

The scenarios depicted in Figures 3 and 4 illustrate a range of strategic, targeted interventions that can drastically reduce emissions. Each CCAN scenario offers a distinct approach for how to shape a cleaner, healthier, more sustainable future for Nevada.

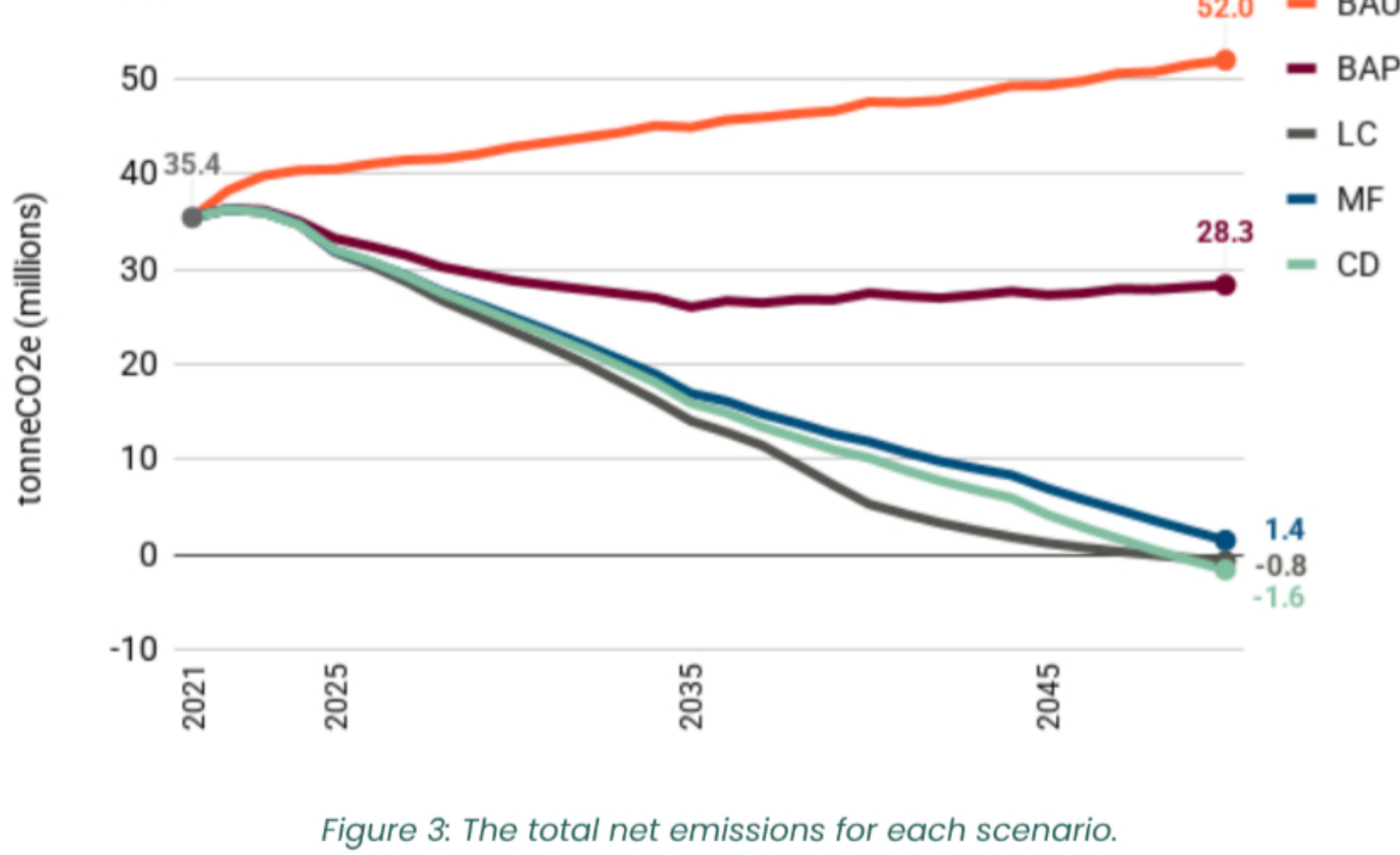
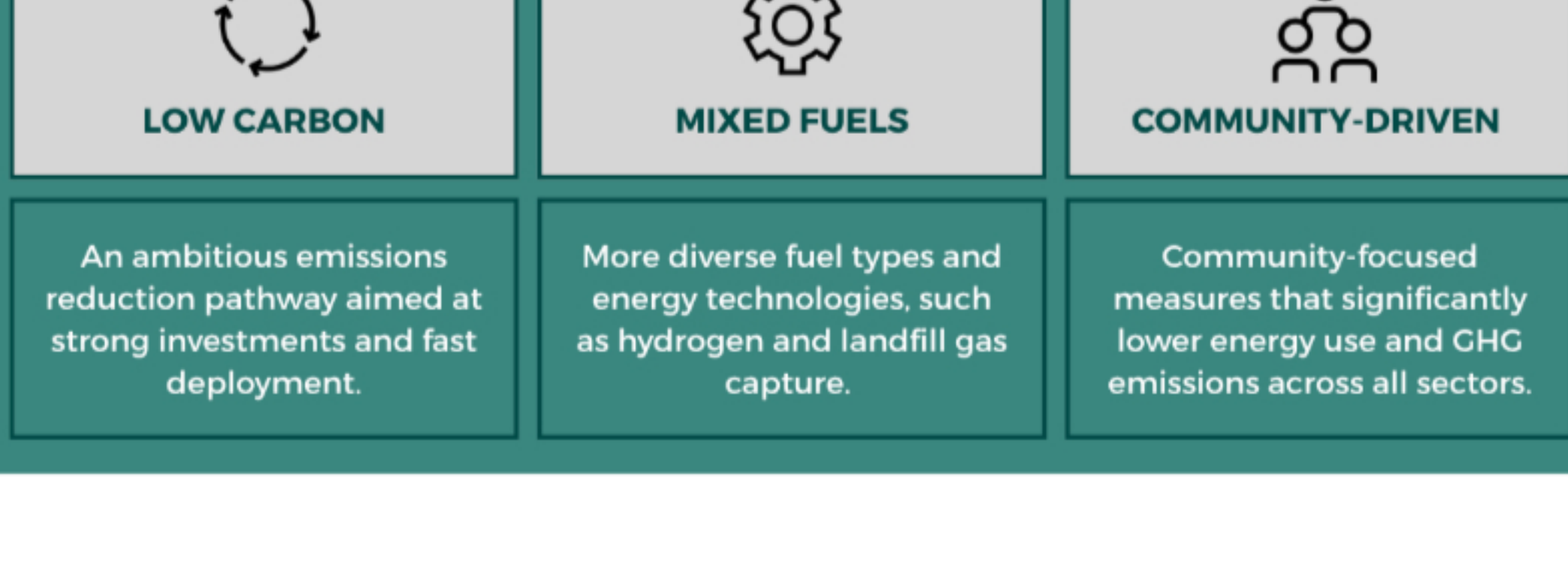


Figure 3: The total net emissions for each scenario.

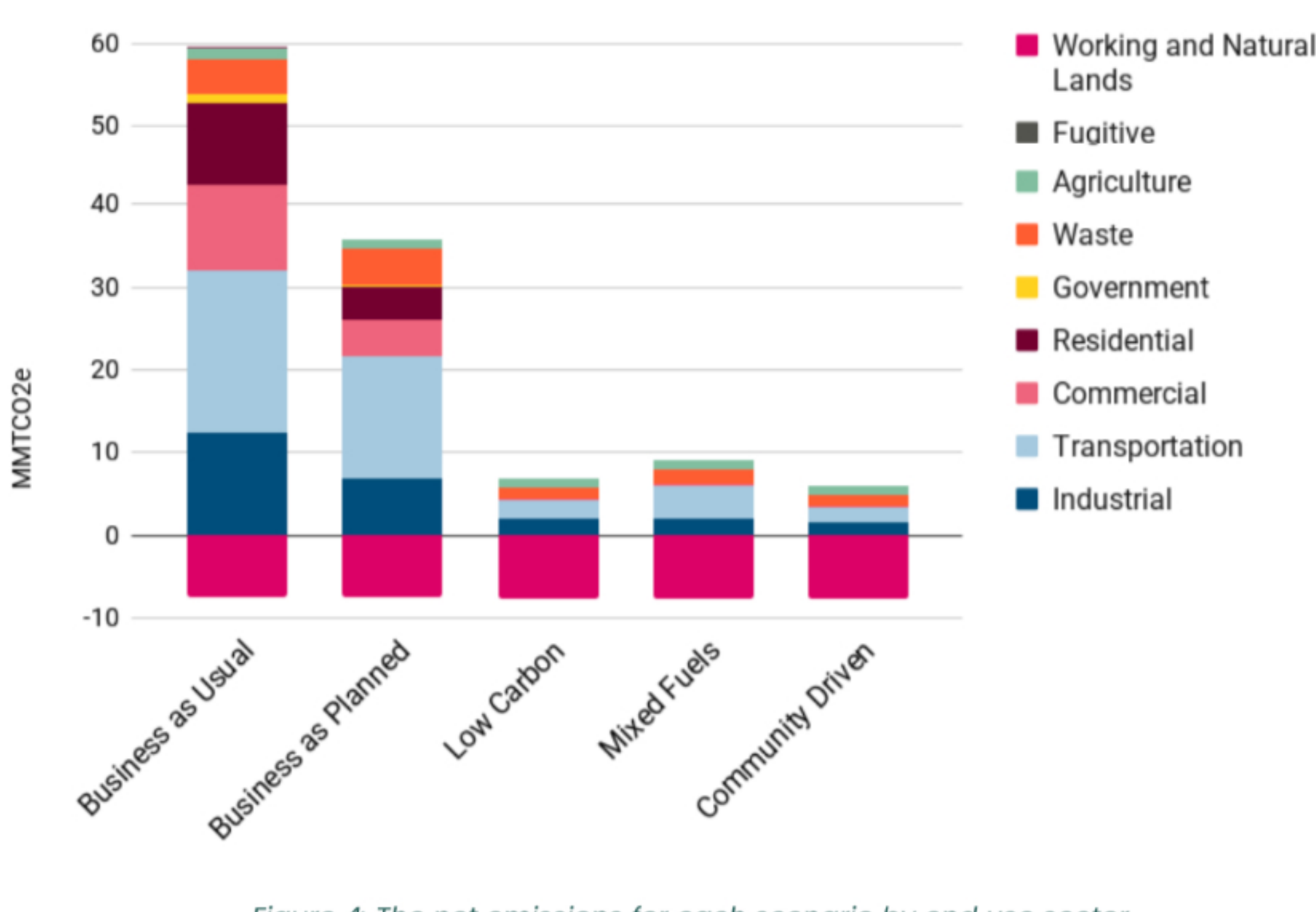


Figure 4: The net emissions for each scenario by end use sector.

Next Steps

In the next stage of the process, these scenarios will be further analyzed to quantify co-benefits such as avoided costs and energy savings, reductions in co-pollutants, community health improvements, and job creation.

The engagement process will continue over the next 6 months.

- July: Final Technical Working Group meeting to cover Financial Analysis and Draft CCAN overview
- September: Online and In-person Community Meetings to present Draft and open Public Comment Period
- November: Submission to EPA and Presentation of Final CCAN

Contact Us!

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



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