Clean & Reliable Energy

Implementing policies, programs, and projects that support the generation and delivery of clean and reliable energy to all.

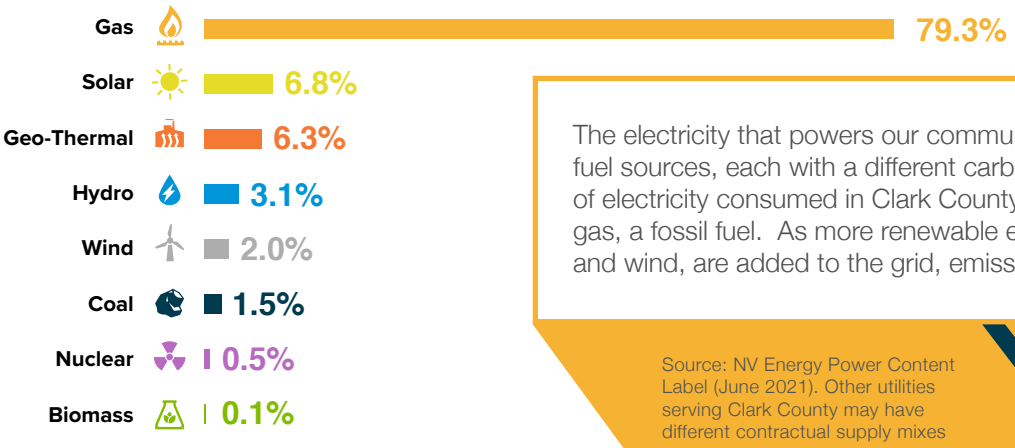
What does *Clean & Reliable Energy* include?

- Generating energy from renewable sources
- Ensuring all community members have access to affordable and clean energy
- A resilient grid that delivers clean energy to support current and future demand
- Energy storage sufficient to support a flexible and renewable energy system

How is *Clean & Reliable Energy* connected to our long-term resilience and sustainability?

Renewable energy is our greatest opportunity to reduce greenhouse gases (GHGs) and other air pollution. At the same time, impacts of climate change, like hotter temperatures, drought, flooding, and high winds, threaten to disrupt energy delivery and increase energy bills. A reliable energy distribution and storage grid will keep power flowing and enable us to tap into the vast renewable energy resources available in our region. By embracing clean energy technology, we can drive local workforce development, strengthen the local economy by keeping energy production in Nevada, and prepare for the extremes of climate change.

Sources of Our Electricity



The electricity that powers our community is generated from different fuel sources, each with a different carbon footprint. The vast majority of electricity consumed in Clark County is generated from natural gas, a fossil fuel. As more renewable energy, like solar, geothermal, and wind, are added to the grid, emissions from electricity use drop.

Source: NV Energy Power Content Label (June 2021). Other utilities serving Clark County may have different contractual supply mixes

By the Numbers

46,300+

rooftop solar panel systems installed in Southern Nevada

18.3%

of the energy in our grid is renewable, more than tripling since 2005

NV Energy Power Content Label (June 2021)

7% decrease

in total energy used statewide, even while population grew 18% (2005-2015)

Steps we are already taking towards *Clean & Reliable Energy*:

Local Solar: Our region currently boasts 2,600 megawatts (MW) of utility-scale solar generation capacity. NV Energy has commissioned an additional 1,190 MW of solar and 590 MW of battery storage to come online by 2024, a 45% increase from today's solar generation capacity!

Renewable Portfolio Standard: Currently, Nevada has an RPS of 29% renewable energy by 2022 and 50% by 2030.

Moapa Travel Plaza Microgrid: In 2014, the Moapa Band of Paiutes, with the U.S. Department of Agriculture, completed a 252 kilowatt (kW) off-grid solar energy system at the Moapa Paiute Travel Plaza.

Renewable Portfolio Standard (RPS) *noun*

A policy designed to increase the use of renewable energy sources for electricity generation by requiring electricity suppliers to provide customers with a minimum proportion of electricity from clean energy.

Image: Tracey LeBeau, US Dept. of Energy

Leading by Example: Powering County Facilities with Solar

Clark County has installed six solar energy systems - five rooftop and one ground-mounted - providing 341kW of generation capacity.