



## Clean & Reliable Energy



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

### What is included?

- Energy that is generated from renewable sources
- Access to renewable energy for all community members
- A resilient grid that delivers clean energy to support current and future demand
- Energy storage sufficient to support a flexible and renewable energy system


### Key Collaborators

- County Residents
- HOAs
- Building Owners
- Developers
- Business and Industry
- Skilled Trades and Unions
- Policymakers
- Regulators

### Final Goals, Recommended Strategies, and Example Actions

The table below includes the following:

- **Final Goals** created from discussions with the Advisory Group, feedback from key stakeholders, and survey responses from the community.
- **Recommended Strategies** developed from the GHG Pathways Analysis, the Climate Vulnerability Assessment, discussions with the Advisory Group, feedback from key stakeholders, and survey responses from the community.
- *Example Actions* for consideration that align with the strategies and goals based on existing Southern Nevada plans, national best practices, discussions with the Advisory Group, feedback from key stakeholders, and survey responses from the community.

<b>Goal 1: Local, renewable energy is maximized and accessible to all within our communities.</b>		
<b>1.1</b>	<b>Develop renewable energy sources to meet a significant share of energy demand (electric and thermal) by 2030.</b>	
	1.1.A	<i>Accelerate transmission projects, through federally designated corridors or alignments with low natural resource conflicts, to connect Southern Nevada with renewable generation in the State.</i>
	1.1.B	<i>Advocate to increase the <a href="#">State Renewable Portfolio Standard</a> to attain 100% renewable electricity by 2050 or sooner.</i>
	1.1.C	<i>Capitalize on solar process heat availability for industry and large heat demands. <a href="#">See National Renewable Energy Lab Industrial Process Heat Potential Analysis.</a></i>
	1.1.D	<i>Advocate for legislative action to support research, development and application of renewable fuels in Nevada.</i>



<b>1.2</b>	<b>Eliminate financial and property barriers to participating in renewable energy transition.</b>	
	1.2.A	Expand <a href="#">Community Solar</a> programs. See <a href="#">Valley Electric Association community solar project example</a> or <a href="#">EESI solar case studies</a> .
	1.2.B	Pursue grants, impact investing, and other finance mechanisms to further reduce participation costs for income-eligible households. See <a href="#">Ithaca NY Thermal Electrification RFP</a> .
	1.2.C	Modernize the State Net-Metering policy to align incentives with a range of grid services that can be provided by distributed solar and storage resources. See <a href="#">example projects under the US DOE SHINES Program</a> .
<b>1.3</b>	<b>Utilize opportunities for renewable energy development in the built environment.</b>	
	1.3.A	Require installation of solar plus storage in new development.
	1.3.B	Establish HOA-partnerships to pilot projects to create uniform neighborhood-scale solar and storage. See <a href="#">Austin Energy Case Study</a> .
	1.3.C	Accelerate development of solar-covered parking to reduce urban heat islands.

<b>Goal 2: Energy supply is reliable, efficient, safe, and resilient to climate-related disruptions.</b>		
<b>2.1</b>	<b>Enhance collaboration and transparency between energy utilities and critical agencies whose operations rely on consistent power.</b>	
	2.1.A	Expand NV Energy advanced notification systems for outages to include agencies managing critical assets.
	2.1.B	Review and communicate regularly the status and impact and cost of any disruptions to critical assets.
<b>2.2</b>	<b>Advance <a href="#">microgrid</a> and smart grid solutions for load balancing and resilience benefits.</b>	
	2.2.A	Engage the PUCN and other regulators to expedite research, assessment, and approval of new storage & integration technologies. See <a href="#">Long Island community microgrid case study</a> .
	2.2.B	Develop and maintain standards for new development to facilitate more grid-interactive buildings. See <a href="#">Department of Energy Grid Interactive Buildings Initiative</a> .



Aligns with Nevada [State Climate Strategy](#).

### Related Actions in the County Operations Plan

Goals	Actions
<b>Reduce energy consumption in County buildings and operations.</b>	Staff an energy management team for all County facilities and operations.
	Continue to upgrade all lighting in County buildings to LED.
<b>Increase the use of clean, renewable energy to power County operations.</b>	Assess the need to expand outdoor lighting control systems (sensors, timers) to all exterior lighting.
	Continue to implement energy conservation measures for the highest energy intensity County buildings and continue to conduct energy audits on other high energy intensity buildings.



<p><b>Promote policies and programs that improve energy efficiency in residential and commercial buildings.</b></p>	<p><i>Establish an employee energy awareness and conservation program.</i></p>
	<p><i>Establish a revolving energy fund that leverages savings from efficiency projects to continue to fund additional investments.</i></p>
<p><b>Promote policies and programs that increase reliance on renewable energy sources for powering residential and commercial buildings.</b></p>	<p><i>Continue to expand building management system (BMS) to all County buildings and integrate data into new Energy Management System.</i></p>
	<p><i>Retrofit all occupied County facilities with solar glazing and energy efficient windows.</i></p>
	<p><i>Pilot battery storage for critical County facilities.</i></p>
	<p><i>Develop partnerships with stakeholders to identify innovative technologies for clean energy production.</i></p>