Nevada Governor's Office of Energy

2024 STATUS OF ENERGY REPORT

January 2024

Submitted to

Governor Joe Lombardo

Prepared by

Governor's Office of Energy

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Letter from the Director

Dwayne McClinton

Director - Governor's Office of Energy

Over the past year, the Nevada Governor's Office of Energy (GOE) has focused on taking advantage of unprecedented funding opportunities to ensure policy safeguards are in place that benefit all Nevadans and advance innovation and initiatives that align with our state's energy goals.

Nevada has made significant strides in expanding renewable energy sources, enhancing energy efficiency, and upgrading our transmission infrastructure.

The Greenlink North and West Transmission Project aims to enhance our state's electrical grid by facilitating the integration of renewable energy sources and improving energy reliability for Nevadans. The Greenlink North project, which spans over 500 miles, will connect renewable energy generation facilities in northern Nevada to the existing transmission network, ensuring that we can effectively transmit clean energy to urban and rural consumers alike. The Greenlink West complements these efforts by enhancing interconnections with neighboring states, thereby fostering regional cooperation and energy sharing. Together, these projects underscore our commitment to reducing greenhouse gas emissions and advancing Nevada's clean energy goals.

80% Grant Application Success Rate →

$12,672,410 Grant Funding Increase in 2024 →

10% RETA Project Increase →

Letter from the Director (continued)

Strengthening our transmission infrastructure allows Nevada to continue leading the nation in solar energy capacity, thanks to strategic investments and partnerships. Nevada's vast solar resources have not only contributed to reducing greenhouse gas emissions but have also created new jobs and stimulated economic growth in our communities.

In addition to solar energy, GOE has made critical progress in diversifying our energy portfolio. Geothermal projects are underway, tapping into Nevada's natural resources to ensure a stable and sustainable energy supply. These efforts are essential in meeting Nevada's renewable energy targets and decarbonization goals.

Pictured: Director McClinton with representatives from the Country of Georgia.

Energy efficiency remains a cornerstone of Nevada's strategy to reduce consumption and lower costs for residents and businesses. This year, GOE launched several programs aimed at increasing energy efficiency in homes, schools, and public buildings. By providing incentives and resources, Nevadans are empowered to make energy-conscious choices that benefit both the environment and their wallets.

Collaboration is at the heart of GOE's success. We collaborate closely with other state agencies, local governments, tribal nations, industry leaders, and community stakeholders to ensure strong comprehensive grant applications and development of policies that reflect the diverse needs and values of our state. Together, we are building a clean energy future that prioritizes equity, innovation, and sustainability.

Thank you Nevada for the continued support and engagement. Together, we are shaping a brighter more sustainable future for Nevada.

Director Dwayne McClinton

About GOE

Pictured: GOE at Thacker Pass Project in Humboldt County, Nevada

Vision

To provide all Nevadans affordable, reliable, sustainable, and clean energy choices through a holistic and realistic approach.

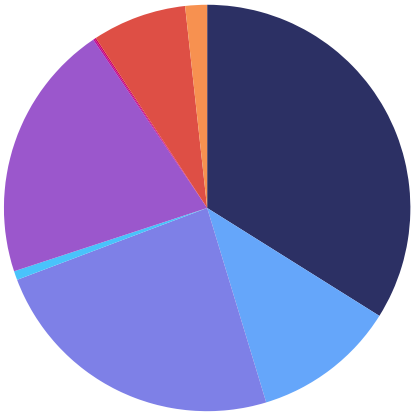
Mission

By maintaining and applying an understanding of the energy landscape in Nevada, GOE promotes policy, manages programs, and distributes federal funding to meet Nevada's energy needs.

GOE fosters thoughtful energy forecasting and planning, promotion of research and development in the energy sector, maximization of Nevada's energy resources, and the wise use of energy.

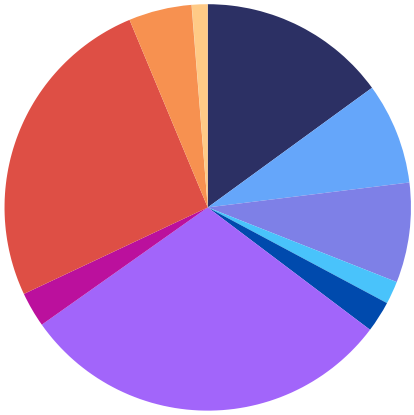
Financial Highlights

Revenue



- RETA $3,689,227
- DOE State Energy Program $1,240,099
- IRA Grants $2,604,675
- Fees $77,250
- ARPA $2,237,644
- CPRG $14,372
- GRID $12,948
- Treas Interest $814,969
- Loan Repayments $188,670

Expenditures



- Personnel $1,304,031
- HEROS $701,270
- NV Electric Highway $691,584
- Operations & Admin $158,205
- Targeted Grants $215,507
- SEP Activities $2,604,675
- IRA Grants $242,992
- ARPA $2,237,644
- County Refund $436,056
- CPRG $1,945 (too small to chart)
- Energy Program $109,237

Applicable regulations:

NRS	NAC
701	701
701A	701A

Energy Assurance

The U.S. Department of Energy's (DOE) State Energy Program (SEP) Formula Grant offers funding and support to enhance energy security and reduce waste. States receive funding based on federal regulations; Nevada's Governor's Office of Energy was awarded $583,050 for activities in renewable energy and efficiency. Additionally, Nevada received $4,679,590 under the Bipartisan Infrastructure Law to improve existing programs and support projects in weatherization, energy efficiency, grid resilience, workforce development and battery supply chain strengthening.

Energy Security

The Nevada Governor's Office of Energy (GOE), in partnership with the Nevada Division of Emergency Management (DEM), collaborate regularly as both are committed to protecting Nevadans in the event of an emergency. The GOE participates in training and exercises executed by DEM to prepare for emergencies as the GOE plays an essential role in understanding the energy landscape in the State of Nevada. If activated during an emergency, GOE serves as the Emergency Support Function 12-Energy (ESF-12). In total, there are 15 ESFs, which all serve in their specific roles when activated by Emergency Management. ESF-12, in partnership with other governmental entities and the private sector, works to provide the support, resources, and services necessary to protect the well-being of Nevadans. All ESFs work together to protect property and the environment, restore essential services and critical infrastructure, and help victims and communities return to normal following an emergency.

Pictured: Davis Fire Activation - Photo Courtesy of DEM

State Energy Security Plan

In November 2021 the Infrastructure Investment Jobs Act (IIJA)/Bipartisan Infrastructure Law (BIL), introduced a new requirement for the state to submit, a State Energy Security Plan (SESP) to receive federal financial assistance. The SESP's goal is to assess the current energy security circumstances of the state and propose methods to strengthen the energy security abilities of Nevada. The SESP is due by September 30th of each year. This requirement sunsets October 31, 2025. If need be, an additional review and update may be made to the 2024 Plan during 2025, with a thoroughly reviewed and Governor-approved Plan being submitted to DOE by the end of September 2025. Under GOEs oversight, The Olson Group made significant improvements on the six key elements required by DOE, and the GOE successfully submitted the updated Plan to DOE in September of 2023. The GOE, DEM, and The Olson Group have successfully worked together to create, revise, and review the SESP in response to the NRS 416.030(2) and federal requirement of the DOE's State Energy Program (SEP) Formula grant (per Energy Policy and Conservation Act of 1975, Section 363, 42 U.S.C. 6322e and 6323e).

Energy Assurance (continued)

Grid Resilience State and Tribal Formula Grant Program - 40101(d)

The Grid Resilience State and Tribal Formula Grant Program provides non-competitive funding to states (including U.S. Territories) and Indian tribes to improve the resilience of their electric grids. Administered by the National Energy Technology Laboratory and falling under BIL provision 40101(d), the program is designed to strengthen and modernize America's power grid against wildfires, extreme weather, and other natural disasters that are on the rise.

The program will distribute funding to states, territories, and federally recognized Indian tribes, including Alaska Native Regional Corporations and Alaska Native Village Corporations, over five years based on a formula that includes factors such as population size, land area, probability and severity of disruptive events, and a locality's historical expenditures on mitigation efforts. The states, territories, and Indian tribes will then award these funds to a diverse set of projects, with priority given to efforts that generate the greatest community benefit providing clean, affordable, and reliable energy.

The GOE received $10 million during the 2022–2023 funding round. Through a competitive application process, the GOE has identified a Nevada utility as the recipient of this funding for vegetation management. The award is planned for distribution in the first quarter of 2025.

Regional Transmission Coordination Task Force

The Regional Transmission Coordination Task Force (RTCTF) was formed with the signing of Senate Bill 448 during the 81st Nevada Legislative Session and consists of 19 appointed members. The Task Force is charged with advising the Governor and Legislature on topics and policies related to regional electricity transmission in the West, including the costs and benefits of Nevada joining a regional transmission organization to provide access to a wholesale electricity market. The Task Force met on June 24, 2024, October 28th, and November 18th and 25th of 2024. As required by NRS, the Task Force submitted a biannual report to the Governor on November 27, 2024.

Energy Assurance (continued)

NV Energy - Greenlink Nevada

The new renewable energy and infrastructure initiative aims to propel Nevada towards a future increasingly reliant on renewable energy while simultaneously reducing the state's carbon footprint. This initiative is designed in collaboration, to enhance transmission infrastructure.

Key components include:

- Greenlink Initiative: A funding opportunity of $10.5 million.
- Greenlink West: A proposed 525 kV transmission line spanning approximately 350 miles from Las Vegas to Yerington, NV.
- Greenlink North: Another 525 kV line projected to cover around 235 miles from Ely to Yerington, NV.

Benefits for Customers and the State of Nevada:

- Expands access to new regions within the state for the development of affordable renewable energy resources.
- Enhances the ability to achieve Nevada's renewable development and carbon-reduction objectives.
- Positions Nevada to capitalize on a diverse mix of renewable energy resources when future regional transmission projects connect at Robinson Summit.
- Strengthens the reliability of electricity supply across Nevada.
- Supports long-term economic growth for both northern and southern Nevada.

Establishes Nevada as a leader in the energy sector within the western United States.

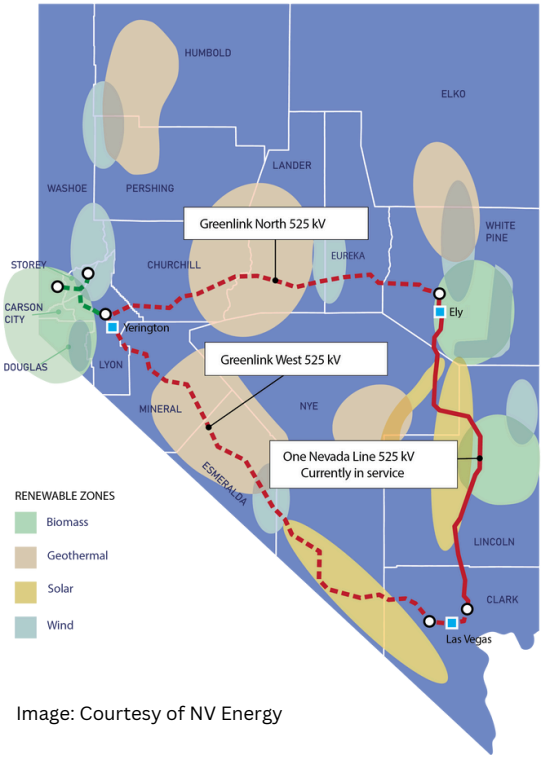


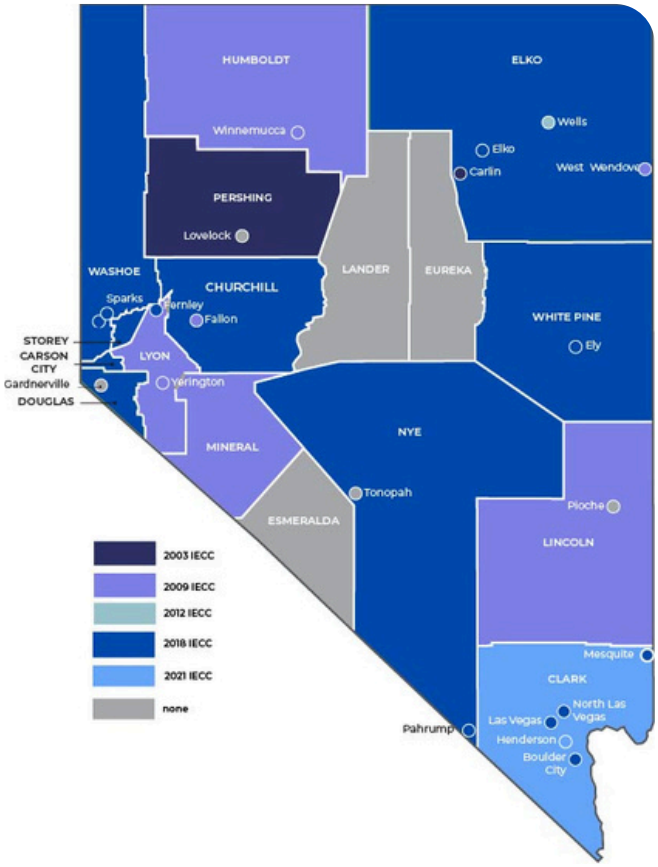
Image: Courtesy of NV Energy

Energy Efficiency

Nevada's energy efficiency sector is experiencing swift growth. To bridge existing gaps and satisfy demand, the Governor's Office of Energy is diligently seeking federal funds from the Department of Energy (DOE), the Infrastructure Investment and Jobs Act (IIJA), and the Inflation Reduction Act (IRA). These efforts not only assist the state in addressing the need for modern homes and appliances but also create quality jobs and fair wages for Nevadans, leading to positive community impacts across the state.

Building Energy Codes

Many cities and counties in Nevada have adopted the International Energy Conservation Code (IECC), a standard that establishes minimum requirements for energy efficient construction and renovation of homes and businesses. The state of Nevada has tentatively adopted the IECC 2024 code to be finalized in early 2025 and many local jurisdictions are working towards implementation and the GOE is actively seeking additional funding through the IRA to support that implementation.



Home Energy Retrofit Opportunities for Seniors

The Home Energy Retrofit Opportunity for Seniors (HEROS) program is a collaboration with the Nevada Housing Division (NHD) and their partners. The program assists with reducing energy costs for Nevada seniors by improving the energy efficiency in their homes. To date, a total of 1,253 homes have had improvements made through this program. Average annual cost savings is more than $1,000 per home, with a total of more than 7 million kWh of energy savings. 750,000 a year on the program.

Energy Efficiency (continued)

Home Energy Rebate Programs

As part of the IRA, nearly $9 billion in rebates have been allocated for home energy efficiency and electrification projects nationwide. These rebates, funded by grants from DOE, are intended to save households money on energy bills, as well as reduce indoor and outdoor pollution. The rebates will remain available through September 2031.

Section 50121 of the IRA appropriates $4.3 billion for state energy offices to develop and implement a Home Efficiency Rebates program. These rebates will reduce the price of energy saving retrofits in single-family and multi-family buildings, with larger rebates offered to low income households. Section 50122 of the IRA appropriates $4.5 billion for state energy offices to create a Home Electrification and Appliance (HEAR) rebate program, with $225 million allocated specifically for tribal governments. These rebates will provide households with appliance upgrades, as well as insulation and electrification improvements. Eligible entities include low- or moderate-income households and multi-family buildings with low- or moderate-income tenants. The IRA has allocated $48,103,711 for Nevada's HOMES rebate program, and $47,920,160 for Nevada's HEAR program. In total, $96,023,871 has been allocated for home energy rebates across the state.

Per DOE guidance, GOE completed a needs assessment, and began outreach to contractors and other stakeholders which helped inform successful program design and management. Additional outreach will occur in 2025, and GOE will continue to seek additional feedback throughout the life of the programs. In November 2024 GOE issued a Request for Solution (RFS) to identify a suitable contractor for implementation and is currently working with a vendor to finalize the programs. GOE anticipates that the public will be able to apply for these rebates in early 2025.

Performance Contracting Audit Program

Performance contracting can be used to accelerate cost savings and energy conservation measures, without up-front capital. GOE provides financial and technical assistance to Nevada government entities to enter performance contracts for eligible projects, which include HVAC upgrades or efficient lighting.

The Performance Contracting Audit Assistance Program (PCAAP) funds financial-grade audits for entities looking to make energy efficiency improvements, helping determine if a performance contract will provide cost savings.

Since PCAAP's inception in 2014, GOE has awarded $2.8 million to accelerate performance contracting, resulting in project investments totaling $237 million, while creating an estimated 1768 jobs, and saving more than 121 million kWh and 463,000 therms annually.

Energy Efficiency (continued)

Appliance Standards

Under Nevada Revised Statutes (NRS) 701.768 and 701.774, the Director of the Governor's Office of Energy (GOE) formally adopted Appliance Standard Regulation 168-22 on November 15, 2024. This regulation establishes detailed requirements for the energy efficiency, performance, certification, and labeling of specified appliances covered under the standard. The goal of these requirements is to ensure that appliances sold, leased, distributed, or installed in Nevada meet stringent standards, helping to reduce energy usage, lower utility costs for consumers, and advance the state's environmental and energy objectives.

Energy Efficiency Conservation Block Grant

The program supports projects that demonstrate energy savings, cost-effectiveness, and sustainability by providing technical assistance and funding. Local governments and Tribes can apply for grants to retrofit buildings, upgrade lighting, and implement renewable energy sources like solar or wind. It prioritizes initiatives that create jobs and develop the workforce in the clean energy sector, enhancing both energy efficiency and economic resilience. The program aims to foster a culture of energy conservation and environmental stewardship through collaboration and community engagement.

Energy Efficiency Revolving Loan Fund Capitalization Grant

This program enables commercial property owners to access funding for energy efficiency upgrades, advancing sustainability and reducing energy expenses. The program creates an essential framework to support Nevada's efforts to expand energy efficiency investments, with a focus on areas that have greater needs and face higher challenges in accessing affordable financing for energy-saving technologies.

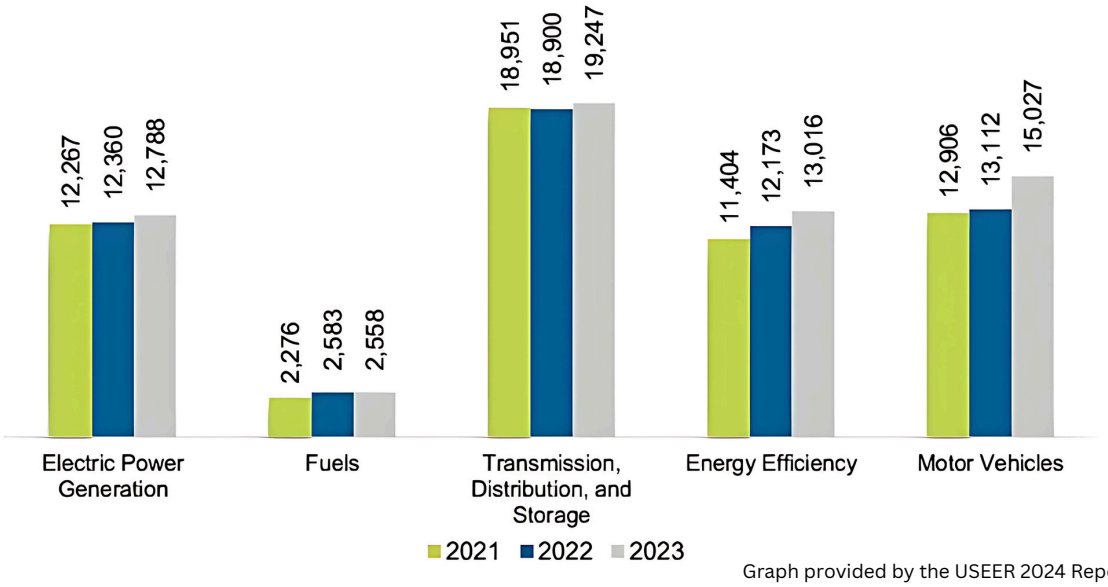
Energy Workforce Development

The Nevada Governor's Office of Energy (GOE) is actively working towards establishing innovative, effective, and equitable workforce in the energy efficiency sector statewide. This will be achieved through stakeholder engagement, collaboration, public and private partnerships, and the pursuit of federal funding.

As the fifth fastest-growing state in the nation, Nevada is experiencing a surge in workforce demand. According to the 2023 U.S Energy and Employment Report (USEER) produced by the U.S Department of Energy (DOE), the State of Nevada is leading in job growth at a rate of nearly 7% with a total of 12,173 energy efficiency jobs.

Workforce development programs supported by the GOE seek to address the workforce gaps Nevada is facing within the energy efficiency sector. Challenges include but are not limited to, new and existing skilled labor industry staffing shortages, the development and expansion of educational pathways, and essential recruitment and retention.

EMPLOYMENT BY MAJOR ENERGY TECHNOLOGY APPLICATION



Graph provided by the USEER 2024 Report

State Energy Program (SEPBIL)

The GOE, SEPBIL Workforce Development program will leverage $2,270,290 awarded by the DOE to implement an equitable, data-informed, and community-led clean energy workforce development program to be offered throughout the State of Nevada. The SEPBIL Workforce program aims to provide training and workforce development in the energy efficiency sector to disadvantaged communities. A required gap-analysis and feasibility study will be completed combined with meaningful and targeted community outreach. Once this initial step is completed, the GOE will formally announce and issue the SEPBIL Workforce Notice of Funding Opportunity to be released in 2025.

Energy Workforce Development (continued)

Contractor Training Grant (TREC)

The TREC-Formula funding of $1,637,710 will be strategically utilized to implement a focused project targeting residential HVAC contractors. In collaboration with community colleges within the Nevada System of Higher Education (NSHE), GOE has developed a program to be delivered in both northern and southern Nevada. This initiative aims to create new HVAC training opportunities to upskill and support the professional development of both new and existing workers, enhance awareness of HVAC career pathways across the state, and advance diversity, equity, inclusion, and accessibility by eliminating financial barriers to HVAC training. GOE received the conditional award in January of 2025.

Pictured: Unimatics & Nextracker Inc. ribbon-cutting in Sloan, Nevada

Energy Auditor Training Grant Program (EAT)

Nevada is the only state to be independently selected for awards in both the Residential and Commercial Energy Auditing Grant Programs. Nevada faces a critical shortage of energy auditors (EAs) with a significant gap between labor supply and demand in both the residential and commercial sectors. Despite demand, existing training programs and certification pathways for EAs are inadequate statewide. Through a winning partnership with community colleges under NSHE, the EAT-RES and EAT-COM project's main goal is to provide northern and southern Nevada with current industry standard certifications and training within the energy auditing career pathway. This will address current and future demands in workforce while providing the greatest community benefit. Presently, GOE is actively engaged in negotiations with the DOE and anticipates federal awards in Summer of 2025 with $1,697,199 for the Residential program and $1,371,411 for the Commercial program.

Pictured: GOE, GOED & JAG Nevada at Local 525 in Las Vegas, Nevada

Renewable Energy

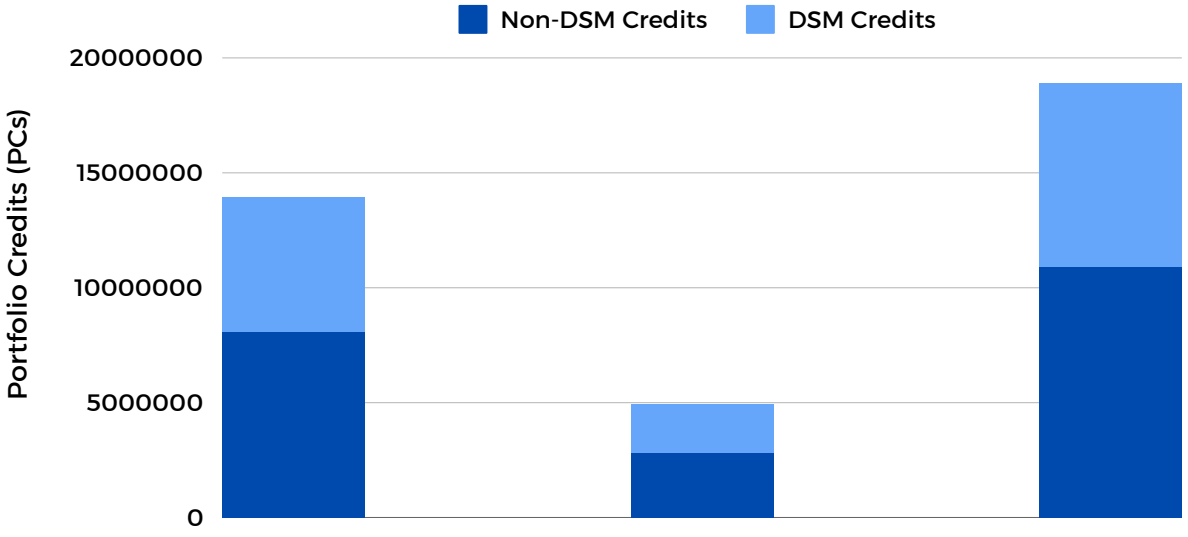
In 2019, SB358 received bipartisan support from state lawmakers, establishing an ambitious goal for at least 50% of electricity sold to customers to originate from renewable sources by 2030. This update to Nevada's Renewable Portfolio Standard (RPS), codified in NRS 704.7801, also outlines key state policy directives to:

- Promote and expedite the development of new renewable energy initiatives.
- Establish Nevada as a prominent producer and consumer of clean, renewable energy, aiming for net-zero emissions by 2050.
- Ensure that residents of Nevada benefit from a diverse energy portfolio and energy efficiency initiatives.

Additionally, the 2019 Legislature determined that energy efficiency measures could account for up to 10 percent of an energy provider's annual RPS requirement. However, starting in 2025, energy efficiency measures will no longer count toward meeting RPS requirements.

Energy providers are rising to meet this challenge. NV Energy, the state's largest electricity provider, reported that in 2022, 39.7 percent of the energy sold to customers came from renewable sources, surpassing the 29 percent requirement. The RPS requirement climbs to 34 percent in 2024, 42 percent in 2027, and ultimately to 50 percent in 2030 and each year thereafter. Increased demand for renewable energy is also evident in large customers seeking greater renewable energy options through energy supply agreements and the Nevada Greenrider ("NGR") program.

2023 NEVADA RPS COMPLIANCE



Based on reports sent to the Public Utilities Commission of Nevada (PUCN), NV Energy and its subsidiaries generated enough portfolio credits (measured in kWh) to meet Nevada's RPS requirements. Awarded credits are equal to the amount of energy saved through energy efficiency and conservation measures (demand-side management, or DSM) and by renewable energy generated (non-DSM).

Note: 2024 Nevada RPS Compliance data is available April 2025

Renewable Energy (continued)

Renewable Energy Tax Abatements

An additional principal initiative in delivering critical utility-scale energy projects to the state is Nevada's Renewable Energy Tax Abatement (RETA) program. RETA awards partial sales and use tax abatements along with partial property tax abatements to eligible renewable energy utility facilities. This program helps invigorate Nevada's tax revenue and create more jobs in a growing industry by attracting clean energy developers.

Under RETA guidelines, eligible projects under construction must employ at least 50 percent Nevada workers and pay 175 percent of Nevada's average wage in addition to offering health care benefits to workers and their dependents. GOE follows a comprehensive process that includes evaluating applications, conducting public hearings to determine project eligibility, reviewing quarterly reports throughout the construction phase once abatements are granted, and monitoring annual compliance reports to ensure adherence to requirements after the abatements are in effect. In 2024, GOE approved five renewable energy tax abatements. Since the program's inception in 2011, GOE has approved 68 abatements, supporting large-scale projects across Nevada, including solar photovoltaic, solar thermal, biomass, geothermal, and wind energy developments resulting in:

- **17,370** construction jobs with an average hourly wage of **$48** per hour.
- **734** operational jobs with average hourly wage of **$39** per hour.
- Greater than **$14** billion capital investment.
- Greater than **$1** billion in Nevada wages.
- Greater than **$9.5** million in property and sales/use tax benefits.
- A total nameplate capacity of **7,465** megawatts of renewable energy (half of all the renewable energy production in Nevada).

Notes:
$14,302,188 in capital investment
$1,294,607,772 in sales/use tax and property tax
$1,311,405,599 in construction and operational wages

Renewable Energy System Determinations

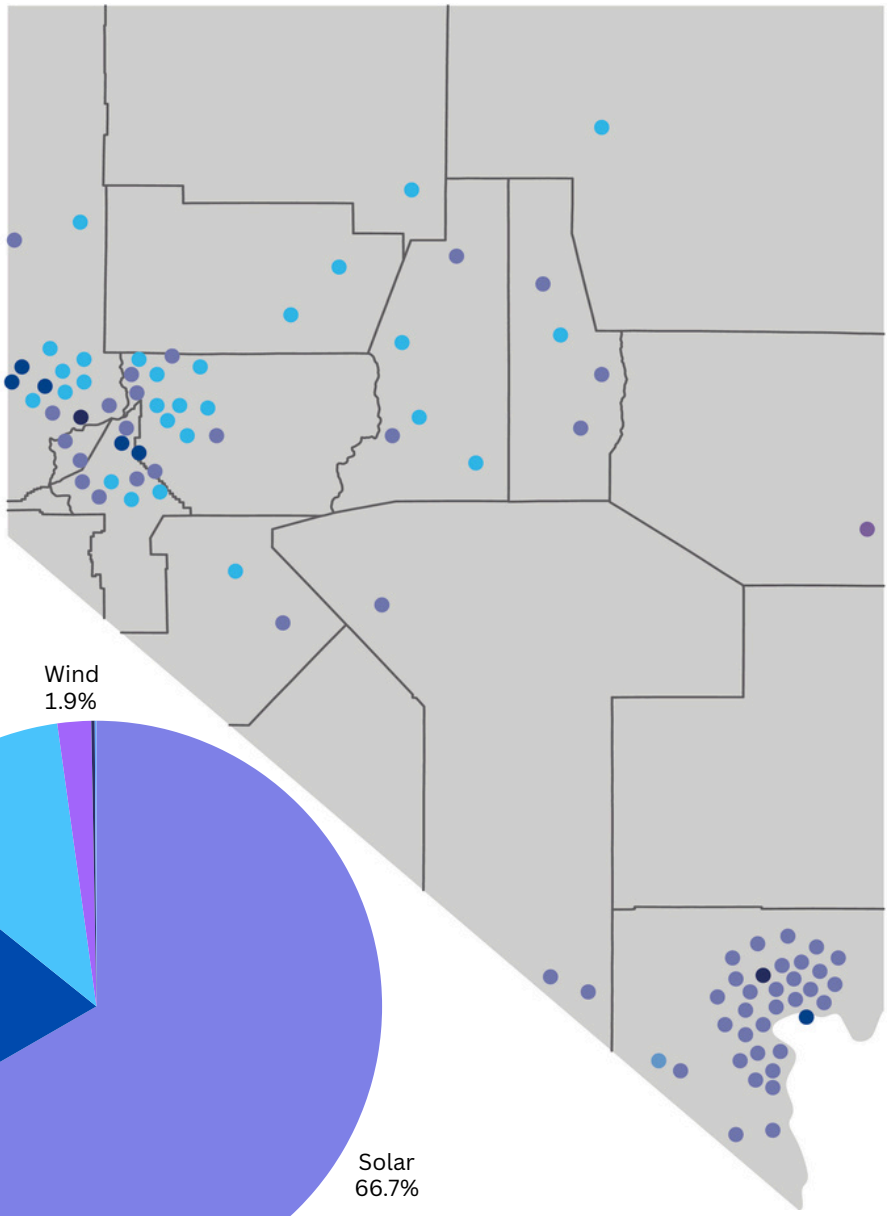
NRS 701.180(6) empowers GOE to develop and oversee policies and programs for renewable energy and energy efficiency. It also authorizes the GOE to resolve disputes impacting the performance and implementation of renewable energy systems, including residential solar installations.

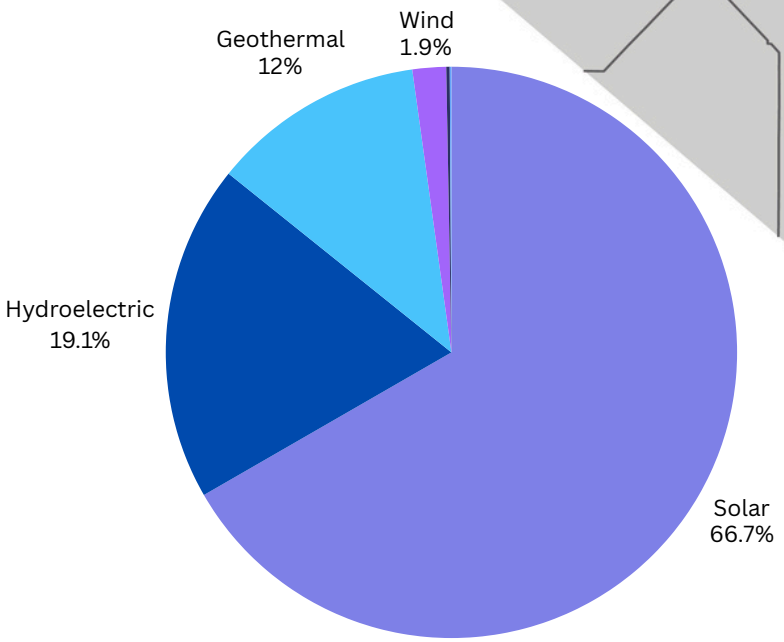
A key aspect of these determinations is the GOE's impartiality, particularly in disputes between homeowners and homeowners' associations (HOAs). By providing fair and unbiased evaluations, the GOE upholds energy rights and supports Nevada's renewable energy goals.

In 2024, the GOE issued six determinations addressing residential solar energy issues, mitigating average losses of up to 50% of annual solar energy production. These actions are vital to Nevada's clean energy efforts, ensuring Nevadans can fully harness the state's solar potential while fostering collaborative solutions and advancing a sustainable energy future.

Renewable Energy (continued)

Renewable Energy Production





- Solar Total - 5,252 MW
- Hydroelectric Total - 1,052.7 MW
- Geothermal Total - 948.9 MW
- Wind Total - 150 MW
- Biomass/Biogas/Landfill Total - 15.2 MW
- Waste Heat Total - 7.5 MW (too small to chart)

Renewable Energy (continued)

SOLAR			
POWER PLANT NAME	**capacity (MW)**	**POWER PLANT NAME**	**capacity (MW)**
Apex Solar (Southern Power)*	20	Nevada Gold Energy*	300
Arrow Canyon Solar *	200	Nevada Solar One (Acciona Solar)	75.7
Battle Mountain (Con Edison)*	101	Nevada Valley Solar Solutions*	13.5
Boulder Solar (Southern Power)*	100	Patua Acquisition Project, LLC	10.6
Boulder Solar II (AEP Renewables)*	50	Playa Solar (I & II) (EDF Renewables)*	179
CM 10 (Con Edison)	10	River Mountains Solar	14.4
CM 48 (Con Edison)	58	Searchlight Solar (Altus Power)*	17.5
Copper Mountain 2-5 (Con Edison)*	754.6	Silver State Solar North*	52
Crescent Dunes (Tonopah Solar)*	125	Silver State Solar South*	260.1
Dignity - San Martin (MN8 Energy)	1.7	SoCore Energy (TJX Las Vegas)	1
Dignity - Siena Campus (MN8 Energy)	1.4	Solar Las Vegas MB (1 & 2) (NRG)	6.4
Dodge Flat Solar*	200	Spectrum Solar (Southern Power)*	30.2
Dry Lake Solar*	150	Steamboat Hills (Ormat)	2
Eagle Shadow Mountain*	300	Stillwater (EGP)*	20
Fish Springs Solar*	100	Stillwater (Enel)*	22
Ft. Churchill (Sierra Pacific Power)	19.9	Sunshine Valley Solar (EDP)*	103.5
Galena 2 (Ormat)	3	Techren Solar (I-V)*	400
Gemini Solar*	690	Tesla Reno GigaFactory	6.7
Greenbacker Renewable Energy (IGS LAS1 & VGT)	2	Townsite Solar*	180
Harry Allen Solar (AEP Renewables)*	100	Tungsten Mountain	12.3
IKEA Las Vegas (IKEA)	1	Turquoise Liberty Solar (Liberty Utilities)*	10
Las Vegas WPCF (City of Las Vegas)	3.3	Turquoise Nevada (Greenbacker)*	60
Luning Energy (Liberty Utilities)*	50	Western 102 (NGM)	1
Moapa Southern Paiute (Arevon)*	250	Yellow Pine Solar 1*	125
Mountain View (NextEra)*	20		
Nellis AFB (Solar Star NAFB)*	13.2		
Nellis Solar (Nevada Power)*	15		
GEOTHERMAL			
Beowawe Power (Ormat)*	20.6	Richard Burdette (Ormat)	30
Blue Mountain (NGP)	63.9	Salt Wells (Enel)*	23.6
Brady (Ormat)*	21.5	San Emidio (USG Nevada)	11.8
Desert Peak (Ormat)	26	Soda Lake 3 (AMOR IX)*	26
Dixie Meadows*	14.3	Star Peak Geothermal	21.9
Dixie Valley (Ormat)*	70.9	Steamboat (II & III)	36.4
Don A. Campbell (I & II) (ORNI 47, 37)*	47.5	Steamboat Hills (I, II, & III) (Ormat)*	31.6
Galena II and III (Ormat)	43.5	Stillwater (ENEL)*	47.2
Jersey Valley (Ormat)*	23.5	Tungsten Mountain*	62.5
McGinness Hills (I & III) (Ormat)*	202.8	Tuscarora (Ormat)*	32
North Valley (Ormat)*	37	Whitegrass (Open Mtn Energy)	6.4
Patua Acquisition Project*	48		
HYDROELECTRIC			
Fleish (TMWA)	2.5	New Lahontan (TCID)	4
Hoover Dam (Nevada allocation)	1,039.40	Verdi (TMWA)	2.4
Lahontan (TCID)	1.8	Washoe (TMWA)	2.6
BIOMASS			
Republic Services Renewable Energy*	12	Waste Management Lockwood	3.2
WIND		**WASTE HEAT**	
Spring Valley Wind*	150	Goodsprings Waste Heat Recovery (Nevada Power)	7.5

*Indicates participation in GOE's Renewable Energy Tax Abatement (RETA) Program
Source: EIA 2019 Form 860, Schedule 3; RETA Program Data

Energy Collaborations

Nevada Clean Energy Fund (NCEF)
Solar for All program for increased solar access.

Nevada Division of Environmental Protection (NDEP)
Climate Pollution Reduction Grant for funding climate pollution reduction.

University of Nevada Reno (UNR)
Recharge Nevada coalition for energy innovation, funded by the NSF.

Nevada Department of Transportation (NDOT)
National Electric Vehicle Infrastructure Program for EV support.

National Association of State Energy Officials (NASEO)
Supports state energy efficiency and renewable efforts.

NASEO – REV West
Focuses on regional collaboration for transportation and energy.

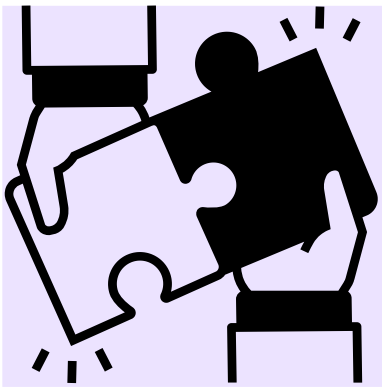
Department of Conservation & Natural Resources (DCNR)
Reports on state fleet compliance with the Energy Policy Act.

Southern Nevada Clean Cities Coalition
Promotes alternative fuels and emission reduction.

Greater Nevada Clean Cities & Communities Coalition (GNC4)
Promotes clean transportation.

Joint Office of Energy and Transportation
Promotes EV adoption and infrastructure nationally.

Bureau of Land Management (BLM)
Renewable Energy Tax Abatements (RETA) Project Permits

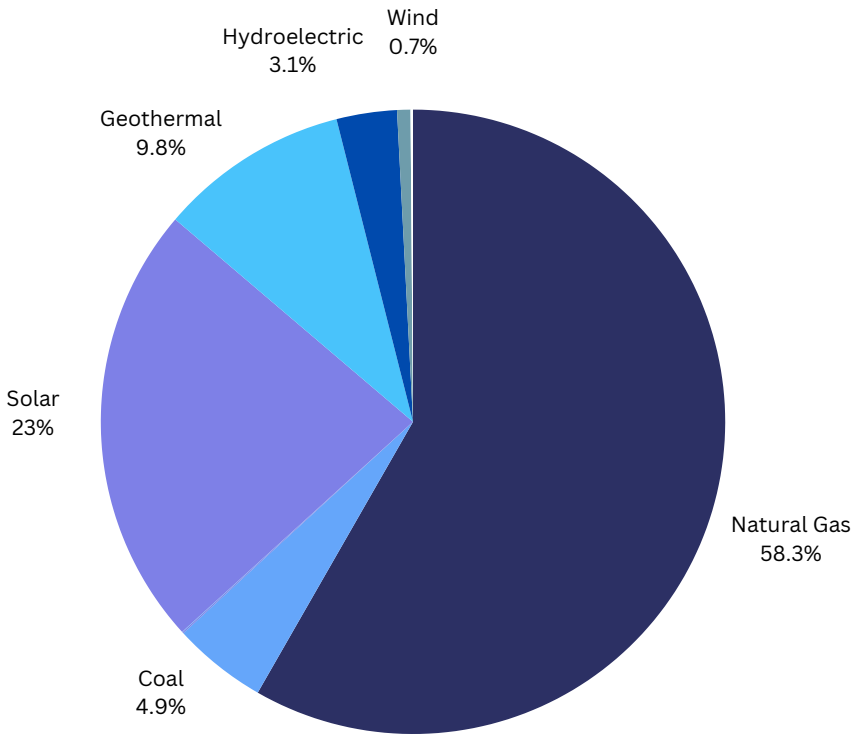


Energy In Nevada

Nevada produces far less energy than it uses. In 2021, energy produced in-state made up only 17 percent of the total energy consumed. In March 2023, Governor Joe Lombardo issued Executive Order 2023-007 directing Nevada to pursue a diverse and balanced portfolio of energy generation resources, including natural gas and renewables (defined in NRS 704.7811 as biomass, geothermal, solar, waterpower, and wind).

Nevada is at the forefront of solar power potential in the United States, currently ranking sixth in total solar capacity and eighth in generation. Since 2016, the state's solar energy generation has nearly tripled. As of 2023, renewable energy sources account for 39 percent of Nevada's overall electricity generation, derived from both utility-scale and small-scale facilities. This substantial contribution not only supports the increasing energy demands of the state but also ensures that homes and businesses can depend on a reliable and secure energy supply.

2023 ELECTRICITY GENERATION



FOSSIL FUEL ENERGY

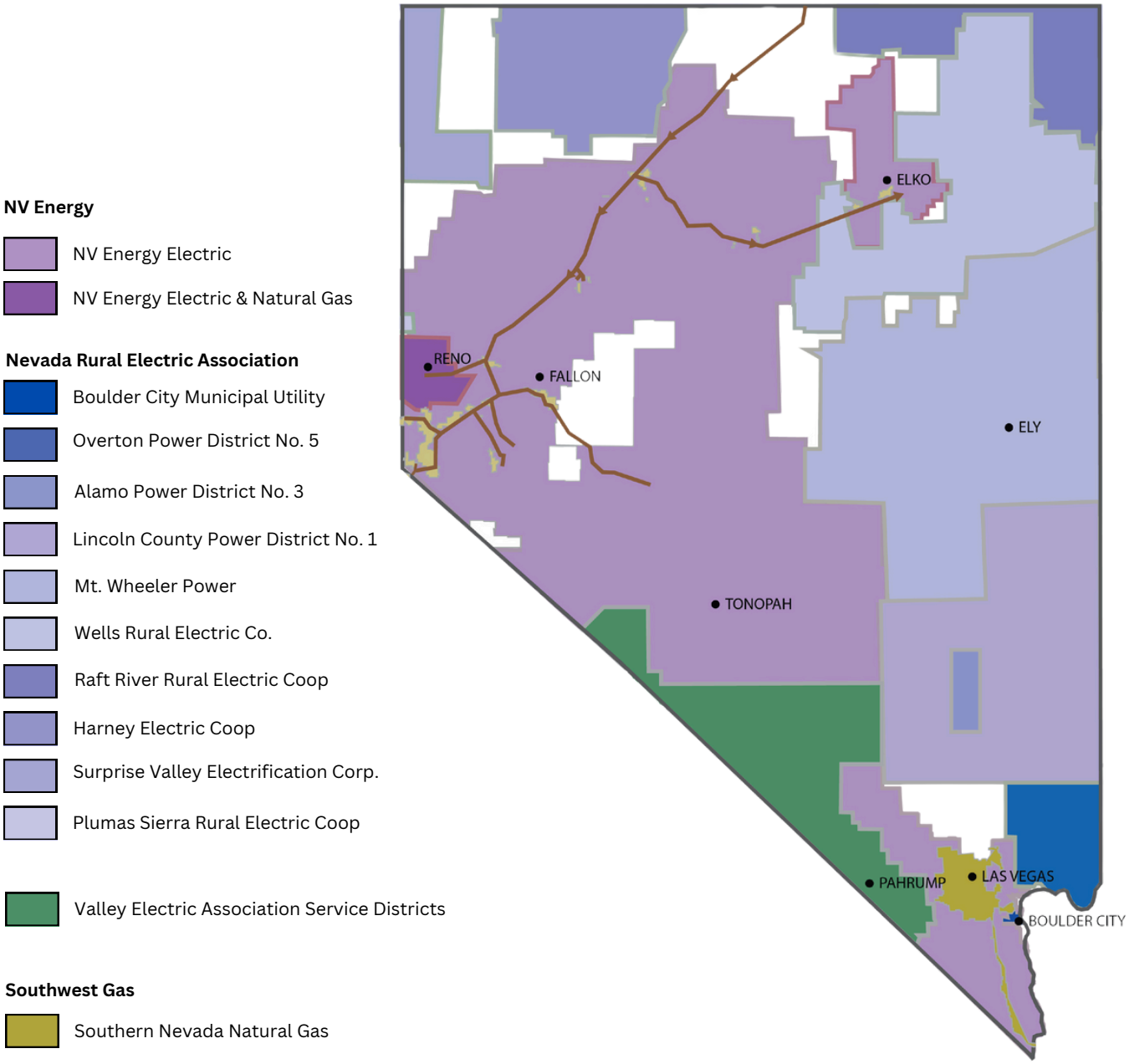
- Natural Gas 24,599,326 MWh
- Coal 2,059,636 MWh
- Other 28,265 MWh (too small to chart)
- Petroleum 7,892 MWh (too small to chart)

RENEWABLE ENERGY

- Solar 9,696,445 MWh
- Geothermal 4,150,414 MWh
- Hydroelectric 1,318,816 MWh
- Wind 291,247 MWh
- Other Biomass 53,667 MWh (too small to chart)

Energy In Nevada (continued)

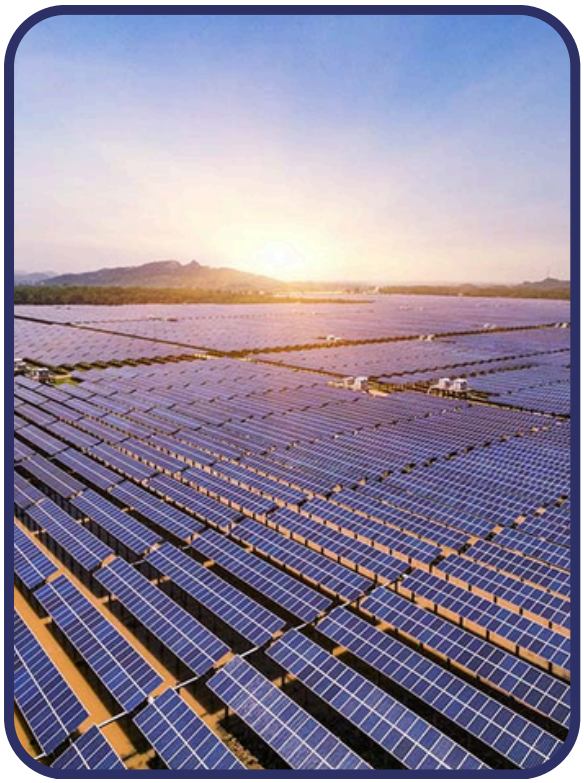
NV Energy, the state's largest investor-owned utility, provides the vast majority of the state's electrical power. Electric cooperatives, private sector energy suppliers, Nevada's public agency supplier, public utility districts, and municipal utilities make up the remainder. Natural gas service is provided by NV Energy and Southwest Gas.



Energy In Nevada (continued)

Gemini Solar Project

Gemini, located in the Mojave Desert just 30 minutes from Las Vegas, is the largest co-located solar and battery project in the U.S., boasting a capacity of 690 MWac and 380 MW of battery storage. It plays a vital role in meeting about 10% of Nevada's peak power demand, while also creating approximately 1,300 jobs and representing a $1.2 billion investment in clean energy infrastructure. The project significantly contributes to environmental sustainability by offsetting 1.5 million tons of CO_2 emissions annually and employs advanced technology that integrates extensive battery storage with solar generation for reliable energy supply. Operating under the oversight of the Bureau of Land Management, Gemini ensures sustainable land management practices and supports the resilience of Nevada's energy grid during peak demand periods.



Libra Solar Project

The Libra Project is a major renewable energy initiative designed as a 700 MWac solar photovoltaic facility paired with a 700 MW battery energy storage system, with a total capital budget of $1.98 billion. Scheduled for construction in 2024 and 2025, it is expected to create 1,795 jobs and generate approximately $656.1 million in economic impact, including $265.4 million in labor income and $8.9 million in local tax revenues. Once operational in 2026, the project will provide an average of 30 jobs annually over its 30-year lifespan, contributing $2.8 million in annual labor income and an economic impact of $19.3 million, along with an average of $654,000 in local tax revenues each year. Benefits will extend to seven counties, particularly Mineral and Lyon, promoting regional economic vitality and aligning with sustainability goals, while fostering long-term job creation in the green energy sector and supporting workforce development.

Glossary

Term	Definition
ARPA	American Recovery & Reinvestment Act
BIL	Bipartisan Infrastructure Law
BLM	Bureau of Land Management
CPRG	Climate Pollution Reduction Grant
DCNR	Department of Conservation &
DEM	Division of Emergency Management
DOE	Department of Energy
DSM	Demand-Side Management
EAT	Energy Auditor Training
ESF	Energy Support Function
GOE	Nevada Governor's Office of Energy
HEAR	Home Electrification and Appliance
HEROS	Home Energy Retrofit Opportunity for Seniors
IECC	International Energy Conservation Code
IIJA	Infrastructure Investment Jobs Act
IRA	Inflation Reduction Act
kWh	Kilowatt Hour
MW	Megawatt
MWh	Megawatt-hour
NASEO	National Association of State Energy Officials
NCEF	Nevada Clean Energy Fund
NDEP	Nevada Division of Environmental Protection
NDOT	Nevada Department of Transportation

Glossary (continued)

Term	Definition
NHD	Nevada Housing Division
NRS	Nevada Revised Statutes
NSHE	Nevada System of Higher Education
PCAAP	Performance Contracting Audit Assistance Program
PUCN	Public Utilities Commission Nevada
RETA	Renewable Energy Tax Abatement
RPS	Renewable Portfolio Standard
RFS	Request for Solution
RTCTF	Regional Transmission Coordination Task Force
SEP	State Energy Program
SESP	State Energy Security Plan
TREC	Training for Residential Energy Contractors
USEER	U.S Energy and Employment Report

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