

GOE Energy Efficiency Programs



Governor's Office of Energy

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Program Overview

Purpose of the Energy Efficiency Programs

- Create programs and incentives to improve the efficiency of residential, commercial and public buildings that reduce energy consumption and help the State and communities become more sustainable.

Energy Efficiency Program Focus Areas

- Residential
- Commercial
- Public Facilities



Residential Energy Efficiency Programs

Building Energy Codes

Implements energy efficiency codes. (NRS 701.220-230)

Home Energy Retrofit Opportunities for Seniors (HEROS)

Provides no-cost energy assessments and energy upgrades to low-income senior homes. (NRS 701A.450)

Direct Energy Assistance Loan (DEAL)

Offers Nevada state employees zero-interest loans for efficiency upgrades to their homes. (NRS 701A.450)

Nevada Clean Energy Corps (NCEC)

AmeriCorps program to provide outreach and energy efficiency education to residents. (NRS 701A.450)



Building Energy Codes

Focus on implementing energy efficient codes for homes. GOE is required to adopt the most recent version of the International Energy Conservation Code (IECC) every three years (NRS 701.220-230).

GOE adopted the 2012 IECC which became effective July 1, 2015. Local counties and municipalities may adopt more stringent codes as so desired.

GOE has provided funding for training for building code officials, builders and architects the last two years and has a building science workshop in Fernley on December 17, 2015.





Home Energy Retrofit Opportunity for Seniors (H.E.R.O.S.)

Energy Savings: in the first year of the program, 162 homes were upgraded to become more energy efficient. On average, 4,994 kWh of electricity and 278 therms of natural gas are saved in each home annually.

Financial Benefits: Each homeowner is saving an average of \$800 in electricity and natural gas costs each year, a significant amount for low-income seniors. Energy upgrades resulted in an average energy reduction of 30% per home.

Improved Health and Comfort: Investments in energy efficiency can create healthier and more comfortable living environments, lowering incidences of asthma and other illnesses.





Direct Energy Assistance Loan (DEAL)

The DEAL program was introduced by GOE to the 2015 Nevada Legislature. As a result of SB466, the DEAL program was created and provides zero-interest loans up to \$6,000 to state employees for energy upgrades to their homes that is paid back through a monthly payroll deduction.

The program launched on November 17, 2015 and received 61 applications in the first week.

DEAL is believed to be the first of its kind in the nation offered by a public entity. GOE anticipates funding 250 homes in the first year with the Nevada Housing Division contractors conducting the work.





Nevada Clean Energy Corps (NCEC)

The NCEC program was created recently through an AmeriCorps grant through Nevada Volunteers and will provide 10 volunteers with a community service opportunity by educating homeowners on the benefits of making their homes more energy efficient.

The program will launch on January 4, 2015 with NCEC members distributing 10 LED light bulbs and 2 high efficiency showerheads to homeowners.

GOE will provide the opportunity to participants to receive over 300 hours of professional energy auditing training and certification, helping them learn skills in the energy field that may result in energy management careers.





Commercial Energy Efficiency Programs

Green Building Tax Abatement Program offers property tax incentives for construction and renovation of buildings to become more energy efficient, utilizing the Leadership in Energy and Environmental Design (LEED) or Green Globes rating system. (NRS 701A.100-701A.220)

Incentives range from 25% to 35% of the property taxes paid for a period of 5 to 10 years, depending on certification level.

To date, 66 buildings have received tax incentives, resulting in over 50 million square feet of LEED certified floor space and significant energy savings in GOE tax incentives.





Public Facilities Energy Efficiency Programs

Performance Contract Audit Assistance Program (PCAAP)

GOE offers funding assistance with the cost of performing a financial grade audit. (NRS 701A.450)

Performance Contract Technical Assistance

GOE assists entities with developing Request for Proposals to increase energy efficiency in their buildings through Performance Contracting. (NRS 701A.450, 332 and 333)

Energy Management Information Software (EMIS)

Will allow GOE to track energy consumption for the 500 largest state-owned buildings. (NRS 701.215)

Performance Contract Audit Assistance Program (PCAAP)

- Funds a financial grade audit, which is first step to determine if a performance contract is right for a project
- Performance contract is way to upgrade facilities with no up-front capital and pay for them through guaranteed energy savings
- Since program's inception in 2014, \$328,000 has been awarded for two audits
- EXAMPLE: Cities of Reno / Sparks > received \$150,000 to cover audit for Truckee Meadows Water Reclamation Facility > led to \$25 million performance contract > will save cities \$1.1 million in energy costs annually > reduce energy consumption by 5.8 million kWh annually





Performance Contract Technical Assistance

The following local government entities have received GOE technical assistance to develop and release a Request For Proposal for a Performance Contracting project:

- Clark County School District
- Carson City
- College of Southern Nevada
- City of Henderson
- Western Nevada College





Energy Management Information Software

In 2014, Nevada spent over \$40 million for electricity and natural gas in state-owned buildings.

Software will allow GOE to track electricity, natural gas, heating oil, propane, and water consumption in the 500 largest state-owned buildings.

Building and facility managers will be able to see the usage in their buildings and optimize system efficiency.

GOE can identify the highest energy use buildings to focus on for developing efficiency projects.

State Energy Program Formula Grant

SEP is an annual source of federal funds from Department of Energy

Goal is to improve reliability, maintain affordability of energy supplies available to Nevada residents and businesses

SEP funds and promotes energy efficiency and renewable energy programs and projects

GOE received \$344,230 in FY15; State provided 20% match

EXAMPLE: Lincoln County Power District

- > 92 LED streetlights for Alamo and Panaca
- > reduce town's energy consumption by 52%





Questions?

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