



NASEO Nevada Energy Code
Field Study Kick-off Meeting

About NASEO

- NASEO is the only national non-profit association for the governor-designated energy officials from each of the 56 states and territories. Formed by the states in 1986, NASEO facilitates peer learning among state energy officials, serves as a resource for and about state energy offices, and advocates the interests of the state energy offices to Congress and federal agencies.
- Issue areas: Buildings (Energy codes, home energy labeling, grid-interactive efficient buildings, ENERGY STAR, ESPC), Energy Financing, Transportation, Fuels and Grid Integration, Energy Security, Energy Jobs, and State Energy Planning.



Agenda

- 10:00 - 10:15 a.m. Introductions
- 10:15 -11 a.m. Background on field study
- 11:00 - 11:30 a.m. Project team members & roles
- 11:30 - 12:00 p.m. Project objectives
- 12:00 - 12:30 Lunch
- 12:30 - 1 p.m. Timelines and tasks
- 1:00 - 1:45 p.m. Sampling plan review
- 1:45 - 2:15 p.m. Data collection review
- 2:15 - 2:30 p.m. Education & Training Review, Ideas and Feedback
- 2:30 - 3 pm. Question and answer/ Discussion



Background

- U.S. Department of Energy (DOE) developed state-wide field study methodology beginning in 2010, funded eight field studies in 2014. (Methodology available here: <https://www.energy.gov/eere/buildings/downloads/residential-building-energy-code-field-study>)
- Field study methodology designed with privacy in mind. **It is not possible for the field study to determine if a building is in compliance with code, as each property is only visited once.**
- Gathering information about code compliance in home rule states. Studies also occurring in Colorado, Arizona, Utah.
- NASEO is project lead, working closely with the Nevada Governor's Office of Energy, SWEEP. Mozingo Code Group will conduct data collection, education, training and outreach.

Why the Federal Interest?

Title: *“Residential Energy Code Field Study”*

DOE Goal: Research project—increase energy savings from codes

Objective:

- Establish empirical data set showing the amount of savings available
- Targeted training & education (based on field component)
- State and industry investments

Background:

- DOE’s interest is energy—study seeks data to assess use
- States and localities have voiced need for additional support
- Seeking a consistent approach across current eight states—testing a methodology that any interested state can implement
- The code is the code—focused on state code
- *How projects selected—submissions, competitive process, review board*
- *Why NV—Home rule state, growing population*

Research Data

Confidentiality:

- No information that identifies people or individual homes will be submitted to DOE/PNNL
- Findings reported only on a statewide or climate zone basis
- Code officials will provide only addresses of qualifying homes—they will not be present for onsite data collection
- No owner-occupied homes will be included
- Blower door and duct testing results will be shared with builders upon request
- Each house visited only one time—not enough information to determine ‘compliance’ for an individual home or jurisdiction

Project Team

- National Association of State Energy Officials- lead organization, manage sub-contractors SWEEP & Mozingo Codes Group (MCG)
- Nevada Governor's Office of Energy- Provide direction to NASEO, SWEEP, MCG to ensure results of study provide measurable benefits to the people of Nevada.
- South-West Energy Efficiency Project (SWEEP)- Expertise in energy codes, relationships with Nevada builders, utilities, and other stakeholders.
- Mozingo Codes Group- Energy code expertise, data collection capabilities, deep knowledge of energy codes, many years of training experience.

Project objectives



- Gather statistically significant data set to determine savings available
- Develop training program to provide useful resources to builders, support Nevada energy goals, increase code compliance
- Inform local jurisdictions
- Information for building officials
- Information for trade associations to provide targeted training (ACCA, NAIMA, ICC Chapters, Raters, etc.)

Study Benefits

- *Consumers/Homebuyers*: Lower energy bills—assurance that code-intended savings are realized
- *Builders & Code Officials*: Level playing field, better market data (e.g. relative to existing homes), protected competitive advantage, free training, reduced burden/risk
- *Utilities*: Cost & savings data to enable future investments, increased accuracy in forecasting, better connection to code implementation infrastructure
- *State & Local Governments*: Federal tax dollars returned to state gives direct benefits to economy and local businesses, enhanced ability to provide training & education programs, and may complement existing policies and energy goals

Sampling plan

Location	Count
Clark County Unincorporated Area	15
Henderson, Clark County	16
Las Vegas, Clark County	4
Reno, Washoe County	6
North Las Vegas, Clark County	7
Sparks, Washoe County	4
Washoe County Unincorporated Area	2
Mesquite, Clark County	2
Pahrump, Nye County	2
Douglas County	1
Fernley, Lyon County	1
Lyon County Unincorporated Area	1
Carson City	2
Total	63

Data collection

- Data collection sheet example available here:
<https://www.energycodes.gov/compliance/energy-code-field-studies>

Data collection- additional items

- Code compliance path
- Presence of (or plan for) solar photovoltaic system/ solar ready
- Electric Vehicle ready? (e.g. conduit present in garage)
- Natural gas/ electric
- Code year home permitted under



Thank you

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