### National ZNE Policy Analysis

<table>
<thead>
<tr>
<th>Example</th>
<th>Source</th>
<th>Type</th>
<th>Sector</th>
<th>Building Type</th>
<th>Scope</th>
<th>Location</th>
<th>CA specifics</th>
<th>Date issued</th>
<th>Link</th>
<th>Comments</th>
</tr>
</thead>
</table>
| New Buildings Institute | Industry | Expansion | Other | Commercial | ZNE | Austin, TX | NA | 3/4/2014 | http://www.austinenergy.org/zeppolicy | Achieve Net Zero Energy (NZE) for at least 100 existing commercial buildings that generate as much energy as they use, or be more efficient than code.

### Buildings - Executive Order B-18-12

- ** Scope:** Buildings - Executive Order B-18-12
- ** Location:** Minnesota Sustainable Building 2030 - Chapter 4B
- ** CA specifics:** Minnesota
- ** Date issued:** 2/28/2014

### Buildings - Executive Order B-18-12

- ** Scope:** Buildings - Executive Order B-18-12
- ** Location:** Massachusetts Stretch Code
- ** CA specifics:** Massachusetts
- ** Date issued:** 5/3/2012

### Buildings - Executive Order B-18-12

- ** Scope:** Buildings - Executive Order B-18-12
- ** Location:** California Stretch Code
- ** CA specifics:** California
- ** Date issued:** 5/28/2012
- ** Link:** http://programs.dsireusa.org/documents/best-practices/2011/070111_ReactiveEnergyCodes/BestPractices
data/SanDiego2030.pdf

### Buildings - Executive Order B-18-12

- ** Scope:** Buildings - Executive Order B-18-12
- ** Location:** Aspen Energy Green Building
- ** CA specifics:** Colorado
- ** Date issued:** 5/25/2012

### Buildings - Executive Order B-18-12

- ** Scope:** Buildings - Executive Order B-18-12
- ** Location:** Minneapolis Sustainable Building 2030 - Chapter 4B
- ** CA specifics:** Minnesota
- ** Date issued:** 4/11/2011
- ** Link:** http://sanbora.fas.org/star.org/star08/FinalFactsheet.pdf

### Buildings - Executive Order B-18-12

- ** Scope:** Buildings - Executive Order B-18-12
- ** Location:** City of Hayward ZNE Policy for Municipal Buildings - Executive Order No 18-12
- ** CA specifics:** California
- ** Date issued:** 8/30/2010
- ** Link:** http://www.star.org/star08/FinalFactsheet.pdf

### Buildings - Executive Order B-18-12

- ** Scope:** Buildings - Executive Order B-18-12
- ** Location:** Santa Barbara County ZNE
- ** CA specifics:** California
- ** Date issued:** November 2016
- ** Link:** http://www.star.org/star08/FinalFactsheet.pdf

### Buildings - Executive Order B-18-12

- ** Scope:** Buildings - Executive Order B-18-12
- ** Location:** The Downtown Palo Alto Net Zero Energy (SANZE) Initiative
- ** CA specifics:** California
- ** Date issued:** March 2010

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**Example Source:**

The example source is the National ZNE Policy Analysis document, which provides a comprehensive overview of various policies and initiatives aimed at achieving Net Zero Energy (NZE) in buildings. The document is structured to highlight policies from different states, organizations, and projects, each with specific scope, location, and date issued. The comments section offers additional insights into the effectiveness and implementation of these policies.

**Type:**

The type varies, including industry, policy, and municipal level, indicating the diverse nature of the policies discussed.

**Sector:**

The sector varies, including commercial, residential, and municipal, reflecting the diverse targets and beneficiaries of these policies.

**Building Type:**

The building type varies, including commercial, residential, and municipal, offering a broad spectrum of applications for NZE policies.

**Scope:**

The scope varies, from executive orders to specific building codes, highlighting the different approaches to achieving NZE.

**Location:**

The location varies, including state-specific policies and projects, offering a regional perspective on NZE initiatives.

**CA specifics:**

The CA specifics vary, indicating the specific context and requirements for achieving NZE in California.

**Date issued:**

The date issued varies, reflecting the timeline of policy development and implementation.

**Link:**

The links provided offer direct access to the policies and initiatives discussed, allowing for further exploration and detailed study.

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**Comments:**

The comments section offers insights into the policies' impact, implementation challenges, and future directions, providing a more nuanced understanding of their effectiveness and potential.
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<th>Unit</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Cambridge Getting to Net Zero</td>
<td>Energy or Community</td>
<td>Local jurisdiction</td>
<td>Plan</td>
<td>Municipal</td>
<td>New Construction</td>
<td>Cambridge</td>
<td>No</td>
<td>other</td>
<td>11/12/2015</td>
<td></td>
</tr>
<tr>
<td>Research Readings for Getting to ZNE Buildings</td>
<td>Industry organization</td>
<td>Industry</td>
<td>RFP language</td>
<td>All</td>
<td>Both</td>
<td>California</td>
<td>No</td>
<td>11/12/2015</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ZNE Study for 400,000 sf countty government center, 6 MW</td>
<td>Industry organization</td>
<td>Industry</td>
<td>RFP language</td>
<td>All</td>
<td>Both</td>
<td>California</td>
<td>No</td>
<td>11/12/2015</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prop 39 ZNE Pilot Program (PG&amp;E)</td>
<td>Industry organization</td>
<td>Industry</td>
<td>RFP language</td>
<td>Municipal</td>
<td>Existing</td>
<td>California</td>
<td>Yes</td>
<td>10/2/2014</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prop 39 ZNE Pilot Program (MSB)</td>
<td>Industry organization</td>
<td>Industry</td>
<td>RFP language</td>
<td>Municipal</td>
<td>Existing</td>
<td>California</td>
<td>Yes</td>
<td>8/2/2014</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSU LEAP Language RFP No. 758</td>
<td>Industry organization</td>
<td>Industry</td>
<td>RFP language</td>
<td>Municipal</td>
<td>New Construction</td>
<td>Pullman, WA</td>
<td>No</td>
<td>8/26/2015</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Santa Clara County ZNE Plan</td>
<td>Industry organization</td>
<td>Industry</td>
<td>RFP language</td>
<td>Municipal</td>
<td>Existing</td>
<td>Santa Clara County</td>
<td>No</td>
<td>24/07/2015</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NYC Green Lease Guide Industry</td>
<td>Industry organization</td>
<td>Industry</td>
<td>RFP language</td>
<td>Commercial</td>
<td>Existing</td>
<td>New York, NY</td>
<td>No</td>
<td>8/15/2015</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Pathways to Zero Goal Program</td>
<td>Industry organization</td>
<td>Industry</td>
<td>RFP language</td>
<td>Municipal</td>
<td>New Construction</td>
<td>Pullman, WA</td>
<td>No</td>
<td>8/26/2015</td>
<td></td>
<td></td>
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</table>

The goal is to develop a technical assessment and Research Roadmap that identifies, describes, and prioritizes key R308 needs for achieving the state's goal for Zero Net Energy (ZNE) buildings in a safe, equitable, and cost-effective manner. Specifically, the research roadmap must outline the key areas, resources and standards that are needed to achieve a safe, equitable, and cost-effective manner.

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<tr>
<td>California ENERGY STAR / Energy Saving Mortgage Program</td>
<td>local jurisdiction</td>
<td>Residential</td>
<td>New Construction</td>
<td>Residential</td>
<td>The energy saving Mortgage Program incentives both the purchase of efficient homes and efficiency renovations in existing homes. Home buyers can earn a credit of up to $5,000 on their mortgage for net-zero homes, or a percentage of that credit for homes scoring between 1 and 10 on the home energy rating system (HERS) score basis. Efficiency renovations include in home owners can earn up to $6,000 incentives for efficiency retrofits to existing homes. Some areas: - Santa Ana, CA - UC Irvine, CA - Berkeley, CA - Solarisnet Power, Solar panels, Solar electric systems.</td>
<td>CA</td>
<td>No - other</td>
<td>6/1/2009</td>
<td>-</td>
<td><a href="https://energy.gov/saving/stars/energy-saving-mortgage-program">Link</a></td>
</tr>
<tr>
<td>NYSERDA Low-Rise Residential New Construction Program</td>
<td>local jurisdiction</td>
<td>Residential</td>
<td>New Construction</td>
<td>Residential</td>
<td>Do’s June 4, 2014, the New York State Energy Research and Development Authority (NYSERDA) launched the California Energy Saving New Construction Program including $200K incentives for homes designed for net-zero energy performance. Homeowners can avoid $0,000-$1,000 per year under three performance tiers, with the highest amount for net-zero homes.</td>
<td>NY</td>
<td>No - other</td>
<td>6/4/2014</td>
<td>-</td>
<td><a href="https://www.nyserda.ny.gov/programs/new-construction">Link</a></td>
</tr>
<tr>
<td>City of Irvine No-Fee Solar Permits (per Measure S)</td>
<td>local jurisdiction</td>
<td>Policy</td>
<td>All</td>
<td>Residential</td>
<td>The city of Irvine has waived all permit and plancheck fees for solar panels and solar hot water heating systems.</td>
<td>Irvine, CA</td>
<td>No</td>
<td>6/4/2014</td>
<td>-</td>
<td><a href="http://www.ci.santa-ana.ca.us/buildings/energy/solarpv.html">Link</a></td>
</tr>
<tr>
<td>Culver City Building Safety Division Mandatory New Building Program</td>
<td>local jurisdiction</td>
<td>Policy</td>
<td>Commercial</td>
<td>New Construction</td>
<td>All new construction in Culver City of 10K sf or greater, additions of 10K sf or greater, and major renovations of 10K sf or greater are required to install 1 KW of solar photovoltaic power per 10K sf or applicable building areas.</td>
<td>Culver City, CA</td>
<td>No</td>
<td>Spring 2018</td>
<td>-</td>
<td><a href="http://www.culvercity.org/CityHall/Departments/CommunityDevelopment/Buildings/BuildingCode">Link</a></td>
</tr>
<tr>
<td>Culver City Building Safety Division Mandatory Solar Photovoltaic Requirement</td>
<td>local jurisdiction</td>
<td>Policy</td>
<td>Commercial</td>
<td>New Construction</td>
<td>All new construction in Culver City of 10K sf or greater, additions of 10K sf or greater, and major renovations of 10K sf or greater are required to install 1 KW of solar photovoltaic power per 10K sf or applicable building areas.</td>
<td>Culver City, CA</td>
<td>No</td>
<td>Spring 2018</td>
<td>-</td>
<td><a href="http://www.culvercity.org/CityHall/Departments/CommunityDevelopment/Buildings/BuildingCode">Link</a></td>
</tr>
<tr>
<td>City of Sebastopol - Mandatory Solar Requirement for Residential and Commercial Buildings</td>
<td>local jurisdiction</td>
<td>Building Code</td>
<td>Building Code</td>
<td>Residential</td>
<td>The city of Berkeley also offers a streamlined permitting procedure for small solar PV rooftop systems (100kW or less) for single family and duplex homes. The streamlined procedure involves the use of standard plans and the elimination of any plancheck or permit requirements.</td>
<td>Sebastopol, CA</td>
<td>No</td>
<td>5/5/2018</td>
<td>-</td>
<td><a href="http://www.cityofberkeley%E4%BF%9D%E6%93%AC%E4%BF%9D%E7%95%99_housing">Link</a></td>
</tr>
<tr>
<td>Berkeley Solar PV Permitting and Industrial Requirements</td>
<td>local jurisdiction</td>
<td>Policy</td>
<td>Residential</td>
<td>New Construction</td>
<td>Requires completion of solar energy system energy assessment at time of sale, although it allows for the buyer to keep the in place solar electric system requirement.</td>
<td>Berkeley, CA</td>
<td>No</td>
<td>9/30/2015</td>
<td>-</td>
<td><a href="http://www.cityofberkeley%E4%BF%9D%E6%93%AC%E4%BF%9D%E7%95%99_housing">Link</a></td>
</tr>
<tr>
<td>Berkeley Energy Savings Ordinance (200105)</td>
<td>local jurisdiction</td>
<td>Policy</td>
<td>New Construction</td>
<td>New Construction</td>
<td>New construction shorter than 10 floors to install solar panels or solar hot water heaters on top of new buildings.</td>
<td>Berkeley, CA</td>
<td>No</td>
<td>9/30/2015</td>
<td>-</td>
<td><a href="http://www.cityofberkeley%E4%BF%9D%E6%93%AC%E4%BF%9D%E7%95%99_housing">Link</a></td>
</tr>
<tr>
<td>San Francisco Mandatory PV</td>
<td>local jurisdiction</td>
<td>Policy</td>
<td>All</td>
<td>New Construction</td>
<td>New construction shorter than 10 floors to install solar panels or solar hot water heaters on top of new buildings.</td>
<td>San Francisco, CA</td>
<td>No</td>
<td>Effective 1/2013</td>
<td>-</td>
<td><a href="http://www.cityofberkeley%E4%BF%9D%E6%93%AC%E4%BF%9D%E7%95%99_housing">Link</a></td>
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