

2009 Seattle Codes

Energy

2009 Seattle Energy Code

- ▶ Proposed 2009 Seattle Energy Code consists of:
 - 2009 Washington State Energy Code
 - Seattle amendments (apply to nonresidential only)
- ▶ Energy savings:
 - Preliminary estimate for one building type (office):
 - Seattle Code gets 15–20% more savings than national standard (ASHRAE 90.1–2007)
 - Seattle Code gets approx 10% more savings than 2009 State Energy Code
 - City Light with other utilities is developing method to estimate energy savings for I-937 reporting
- ▶ No other jurisdiction amends State Code

Washington State Energy Code

- ▶ Washington State Energy Code (WSEC) updated every three years
- ▶ Local jurisdictions required to enforce
- ▶ Limited authority for local amendments
 - More stringent amendments allowed for nonresidential
 - No amendments allowed for residential

2009 Seattle Energy Code's Goal

- ▶ City Council Resolution 30280 (2001) asked for 20% beyond current version of national energy efficiency standard—ASHRAE 90.1
- ▶ New Seattle Energy Code provisions drawn from:
 - Provisions approved for next edition of national energy standard (ASHRAE Standard 90.1)
 - National green building standard (ASHRAE/USGBC/IESNA Standard 189.1)

Public review

- ▶ Preliminary draft available to general public in January 2010
- ▶ 15 public meetings from February–July 2010
 - Many iterations to agree on Code acceptable to stakeholders and City
- ▶ Construction Codes Advisory Board (CCAB) in May 2010 approved with 2 amendments (incorporated into draft); review and approval of additional amendments in July 2010

Specific changes from 2006 code

- ▶ **Building Envelope**
 - More insulation for building envelope
 - Better windows, lower heat loss, less solar gain
- ▶ **Mechanical**
 - Higher equipment efficiencies
 - More heat recovery
 - Addresses some processes (e.g. compressed air)

Specific changes

- ▶ Lighting
 - More efficient lamps, better automatic controls
- ▶ Metering:
 - All buildings over 20,000 ft²
- ▶ Renewable energy:
 - Minimum of 500 Btu/ft² per building per year
 - Alternate compliance options in Director's Rule