

New BPA Deemed Measure: **Energy Smart Design™ -Office Pkg C**

**Measure Description:** Energy Smart Design™ -Office (ESD –Office) Package C is a prescriptive package including all of the following:

- 0.75 Watts/SF Lighting Budget (whole building),
- Occupancy Sensors-install where lighting loads are over 100 watts and sensors are not required by code.

**Savings:** ESD -Office Package C is estimated to save 1 kWh per square foot (1.05 kWh per square foot at the bus-bar). This represents 5% to 10% savings over code, and a BPA Regional target of just over 0.5 aMW through 2011.

**Incentive:** 25 cents per square foot (CRC or CAA)

**Application:** Office buildings, including banks, libraries, dentist offices and medical office buildings.

**Eligibility:** ESD -Office Package C buildings must meet the following:

- new construction, an office addition, or a major renovation for an office;
- 3 stories or less;
- a maximum of 100,000 square feet;
- the building must use the packaged HVAC systems for at least 70 percent of the conditioned space; and
- have a maximum Window-to-Wall Ratio of 30%.

**Market size:** Between 300 and 350 small office buildings are expected to be built each year in BPA service territory.

**Effective:** The ESD -Office Package C incentive is available April 1, 2007 through Sept 30, 2009, and should be available through 2011, pending rate case results.

**PTR reference numbers:** CMN00009 (Constant Volume Single Zone packaged unit with non-electric heat), CMN00010 (heat pump), CMN00011 (VAV electric), and CMN00012 (VAV non-electric)

**Documentation requirements:** 1) Copy of lighting budget form required for permit and “any submitted code compliance documents”, 2) Building drawings in PDF format, 3) Lighting Control Checklist\* and 4) certification letter from a professional familiar with the building design.

\* Sample certification letter and checklists available in the specification appendices, which can be found at <https://www.ptr.nwcouncil.org/outsidedocs.asp>

**Marketing materials:** Flyers, FAQ's, bill stuffers, sample end-user agreement, a link to specifications, documentation checklists, talking points, frequently asked questions and a sample end-user certificate are available at: <http://www.bpa.gov/Energy/N/projects/ESD%2DUtility/>

**Resource materials:** Sample lighting guides, sample designer contract language, sample CSI specifications, documentation checklists, frequently asked questions and a list of participating utilities are available at: [www.bpa.gov/ESD](http://www.bpa.gov/ESD)

**Owner Outreach:** to arrange technical conference calls for the owner or design team contact your Energy Efficiency Representative.

**A&E Outreach:** During 2008, training sessions for architects and engineers on Advanced Building Core Performance and Energy Smart Design™ -Office are being scheduled throughout the region. Register at <http://www.advancedbuildings.net/training.php>

**Note:** ESD -Office Package C is aligned with the ASHRAE Advanced Energy Design Guide for Small Office Buildings and Advanced Building Core Performance Guidelines. No modeling or M&V is required.