



Commercial Energy Code Work Sheet
To be submitted with each commercial building permit application

Address: _____

Contact for Energy Questions: _____

Phone: _____ Fax: _____ Email: _____

CHECK ONE OPTION FOR EACH BUILDING COMPONENT

Building Envelope: Chapter 8 IECC or ASHRAE/IESNA 90.1 Standard or COMcheck™

Building Mechanical Systems: Chapter 8 IECC or ASHRAE/IESNA 90.1 Standard or COMcheck™

Building Service Water Heating: Chapter 8 IECC or ASHRAE/IESNA 90.1 Standard or COMcheck™

Building Lighting Systems: Chapter 8 IECC or ASHRAE/IESNA 90.1 Standard or COMcheck™

Notes to selection options:

1. Buildings with window and glazed door area greater than 50% of above-grade wall area must design using **ASHRAE/IESNA 90.1 Standard-1999 Edition**.
2. Attach **COMcheck™** report to this worksheet. The Code Selection may be either the "2003 IECC" or the "90.1 '99 Standard." The selection for the City is "Arlington." Download **COMcheck™** free of charge at www.energycodes.gov

The following **minimum** information shall be provided on the construction documents. This work sheet must be submitted with the permit application (additional information may be required based on scope of project):

BUILDING ENVELOPE – Provide wall/roof details on plans to show sections and R-values, U-factors and SHGC for all doors & window (including skylights) along with door and window schedules, projection factors, methods of sealing envelope, entrance vestibules (for areas in excess of 3,000 square feet)

MECHANICAL SYSTEMS – Provide HVAC equipment schedules to include performance ratings; provide one solid state programmable thermostat per system/zone, systems 135,000 Btu/h cooling or not meeting the minimum EER requirements per Table 803.2.6 require economizers (use aggregate total for systems serving one room or space)

ELECTRICAL SYSTEMS – Provide "**Total Connected Interior Lighting Power**" (Commercial Energy Lighting Work Sheet-page 1) calculations and "**Interior Lighting Power Calculated**" (Commercial Energy Lighting Work Sheet-page 2). To calculate "**Interior Lighting Power Calculated**" use either the entire building approach or the tenant area or portion of building approach. The **Total Connected Interior Lighting Power** calculation cannot exceed the **Interior Lighting Power Calculated**. Provide fixture schedule (quantities & types – must match "**Total Connected Interior Lighting Power**"), light switching details and methods on plans; each area enclosed by walls or floor to ceiling partitions shall have at least one manual switch for every 2,500 square feet of floor area, each room or area that is less than 250 square feet and is required to have a manual control shall have a manual control to allow the occupant to reduce the lighting load by at least 50% (w/ exceptions); spaces greater than 250 square feet in buildings larger than 5,000 square feet shall be equipped with an automatic control device to shut off the lights in those spaces. The automatic device may be either by scheduled basis using time of day w/ independent program schedules that controls the lighting in those spaces that do not exceed 25,000 square feet and are not more than one floor; or, an unscheduled basis by occupant intervention. Outdoor lighting supplied through the energy service to the building (except low voltage lighting) shall have a source efficacy of at least 45 lumens per watt.

SERVICE WATER HEATING – Provide integral or external heat traps for noncirculating systems on supply and discharge piping, the first 8 feet of piping in noncirculating systems w/o integral heat traps shall be insulated, outlet temperatures of lavatories in public facility rest rooms shall be limited to 110° F.