

INTERIOR LIGHTING CAMPAIGN

For a building to receive recognition through the Interior Lighting Campaign (ILC), project data can be entered in the Lighting Project Evaluator at:

www.lightingsolutions.energy.gov

The Lighting Project Evaluator is a powerful tool that can help you assess the benefits of installing high-efficiency luminaires in your building. The tool can estimate savings from either a code baseline (for new construction or utility incentive programs requiring this analysis) or an existing lighting system. You can create as many estimates as you would like, so feel free to run any potential upgrades through the evaluator to help inform your final decision. Once the new luminaires and controls have been chosen, submit your project data to the ILC to be considered for recognition.

This guide has been developed to provide information on data requirements needed for your ILC submission.

U.S. DEPARTMENT OF
ENERGY

Energy Efficiency &
Renewable Energy

LIGHTING PROJECT EVALUATOR

Step 1 – Create an account

All you'll need to create an ILC account is your name, e-mail address, and a password.

Step 2 – Determine your baseline

If your submission is for new construction, choose the “New Estimate” option to create an Energy Estimate. If you'd like to use the Lighting Project Evaluator for code compliance documentation or utility rebate programs, be sure to select the applicable building code for the building location. If you are only inputting this information for submission to the ILC, please use the ASHRAE 90.1-2010 code as your baseline.¹ Skip to Step 3 – Describe your project. You will walk through the process of specifying the proposed, or new, system once.

New Estimate

If your submission is for an existing building and you are describing a retrofit or building redesign, choose “New Baseline” and move on to Step 3 – Describe your project. To complete Step 3, you'll walk through the process twice; once for the existing lighting system and again for the proposed, or new, system. Once you have established your “Existing Conditions Baseline,” you will create a “New Estimate” (see above) and specify your saved project as the baseline.

New Baseline

Step 3 – Describe your project

Choose the building type and building location. You'll also need to specify the hours of operation for the building and number of days during the year when the building to be closed down. This information must remain the same for the baseline and the proposed project because it will be used to calculate the energy use and energy savings achieved with the new proposed lighting system.

¹ We realize that ASHRAE 90.1-2010 might not be the building code used in your jurisdiction. A separate analysis will be performed to determine the buildings recognized by the ILC.

Add space details. You can go into as much detail as necessary to break your project into individual space types. If you want accurate energy saving estimate from a building code baseline, you'll need to specify all of your space types with the correct associated area and number of installed luminaires. For projects being input explicitly for the purpose of ILC submission, the area and space types do not have to be exact, as an additional analysis will be performed to determine which buildings will be recognized. Along the same lines, specifying daylighting parameters will provide an estimate of energy saving potential; however, it is not necessary to specify these parameters to receive daylight control credits in the ILC.

Define your luminaires. Provide a unique identifier for each luminaire type, and in the "Notes" section of the luminaire schedule, **specify the type of luminaire** (troffer [plus size; 2x4, 2x2, 1x4], low-bay, high-bay, or linear suspended). If the information is readily available, please specify the luminaire mounting, source type, and model number. The system wattage, lumen output, and number of lamps (use 1 for integral LED luminaires or LED retrofit kits) are required fields and will need to be included to receive recognition through the ILC. To determine the system wattage, multiply the lamp wattage by the number of lamps in the luminaire. If the luminaire is a fluorescent fixture, the lamp wattage will have to be multiplied by the ballast factor. If you are unsure of how to determine the system wattage of your luminaire, please contact InteriorLighting@pnnl.gov.

Assign luminaires to spaces. Each space can be assigned any number of the luminaires that were defined in the previous step. If a space has a luminaire that operates under different conditions (e.g., always on), two luminaires may be added to the space and the scheduling modified for one of the luminaires.

Specify lighting controls. To be considered for recognition by the ILC, you must list the number of luminaires being replaced. If any advanced controls are being applied, list the troffers connected to each control type as a separate line item. Again, you can list your entire project for a more accurate estimate of lighting energy use for the project (or building), but only energy savings from applicable luminaires and lighting controls for those luminaires will count towards gaining recognition through the ILC.

Step 4- Submit your project

Once you have made sure that all of the required fields (i.e., luminaire type in notes field, system wattage, lumen output, number of luminaires upgraded, and controls applied) have been accurately represented in your Energy Estimate, you can download your "Energy Estimate Spreadsheet" and e-mail it and a completed submission form to InteriorLighting@pnnl.gov to be considered for recognition. You will receive a confirmation that your submission was received. To download the submission form, go to:

<http://www.interiorlightingcampaign.org/submit-entry>.

For more details on recognition categories and benefits of participating in the ILC, please visit:

www.interiorlightingcampaign.org.