



## Approved Energy Simulation Software for LEED Canada

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The following document outlines the energy simulation software currently accepted for projects pursuing LEED Canada for New Construction and Major Renovations (NC) and LEED Canada Core and Shell (CS) certification.

The following software is currently approved energy simulation software for LEED Canada to demonstrate compliance for Energy and Atmosphere (EA) Prerequisite 2 and EA Credit 1:

- EE4
- eQUEST
- DOE-2
- EnergyPlus
- IES Virtual Environment
- Hourly Analysis Program (HAP)
- TRACE 700
- EnergyPro v5.1

Additional energy simulation software on the U.S. Department of Energy (DOE) Internal Revenue Service (IRS) approved list may be considered; please enquire to the CaGBC ([info@cagbc.org](mailto:info@cagbc.org)) prior to using such software. The IRS approved list is available at: [http://www1.eere.energy.gov/buildings/qualified\\_software.html](http://www1.eere.energy.gov/buildings/qualified_software.html).

### **Additional Guidance for LEED Canada-NC 1.0 and LEED Canada-CS 1.0:**

Compliance for EA Prerequisite 2 and EA Credit 1 is required through an independent review of the whole building energy simulation. There are three (3) compliance paths available to demonstrate this.

#### **1. Review and approval by Natural Resources Canada (NRCan):**

NRCan reviews are limited to EE4 energy model reviews.

#### **2. Review and approval by an independent assessor:**

Independent assessors can review energy models done in *any* of the above approved energy simulation software, provided the assessor is an approved Experienced Modeller (i.e. they are on NRCan's list of Experienced Consultants, found at <http://oee.nrcan.gc.ca/commercial/newbuildings/consultants.cfm?attr=20>).

#### **3. Review and approval by CaGBC Reviewer:**

The CaGBC Reviewers do not have the capability to review energy models done using all the above approved energy simulation software. The criteria for energy simulation software being accepted for CaGBC review is that the majority of the CaGBC Review Teams must have a copy of the software and the capability to review the energy model in both official languages (English and French). Here is the current list of the approved energy simulation software accepted for CaGBC Energy Review:

- EE4
- eQUEST
- DOE-2