

Building Technologies Program

Tax Deduction Qualified Software EnerSim version 07.11.30

On this page you'll find information about the EnerSim version 07.11.30 <u>qualified computer software</u> (www.buildings.energy.gov/qualified_software.html), which calculates energy and power cost savings that meet federal tax incentive requirements for commercial buildings (www.buildings.energy.gov/commercial/).

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Statements in quotes are from the software developer.

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Internal Revenue Code §179D (c)(1) and (d) Regu	ulations Notice 2006-52, Section 6 requirements
(1) The name, address, and (if applicable) web site of the software developer;	Southern Company Services 241 Ralph McGill Boulevard Atlanta, Georgia 30308
(2) The name, email address, and telephone number of the person to contact for further information regarding the software;	Mr. Ambavi Bhimani ARBhiman@southernco.com +1 (404) 506-3717
(3) The name, version, or other identifier of the software as it will appear on the list;	EnerSim version 07.11.30
(4) All test results, input files, output files, weather data, modeler reports, and the executable version of the software with which the tests were conducted; and	Provided to DOE.
(5) A declaration by the developer of the software, made under penalties of perjury, that—	"On behalf of the EnerSim development team I certify the following:"
(a) The software has been tested according to ANSI/ASHRAE Standard 140-2004 Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs;	"EnerSim version 07.11.30 has been tested according to ANSI/ASHRAE Standard 140-2004 Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs."
(b) The software can model explicitly—	
(i) 8,760 hours per year;	"EnerSim version 07.11.30 complies with this requirement."
(ii) Calculation methodologies for the building components being modeled;	"EnerSim version 07.11.30 complies with this requirement."
(iii) Hourly variations in occupancy, lighting power, miscellaneous equipment power, thermostat setpoints, and HVAC system operation, defined separately for each day of the week and holidays;	"EnerSim version 07.11.30 complies with this requirement."
(iv) Thermal mass effects;	"EnerSim version 07.11.30 complies with this requirement."
(v) Ten or more thermal zones;	"EnerSim version 07.11.30 complies with this requirement."

(vi) Part-load performance curves for mechanical equipment;	"EnerSim version 07.11.30 complies with this requirement."
(vii) Capacity and efficiency correction curves for mechanical heating and cooling equipment; and	"EnerSim version 07.11.30 complies with this requirement."
(viii) Air-side and water-side economizers with integrated control; and	"EnerSim version 07.11.30 complies with the air-side economizer requirement. However, EnergySim version 07.11.30 cannot model water-side economizes with integrated control and cannot be usef for projects with that technology."
(c) The software can—	
(i) Either directly determine energy and power costs or produce hourly reports of energy use by energy source suitable for determining energy and power costs separately; and	"EnerSim version 07.11.30 complies with this requirement."

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 $\label{thm:continuous} \mbox{Tax Deduction Qualified Software} - \underline{\mbox{www.buildings.energy.gov/qualified software.html}}$