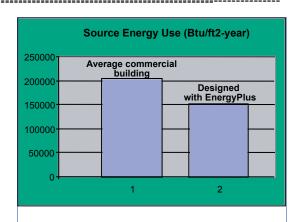
EnergyPlus

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Energy savings 52,000 Btu/ft²-year

\$0.70/ft2-year

1.8 lb/ft2-year

Percent savings 25.5%

Cost savings

Carbon savings

CONTACT:

Kathy Ellington 510/486-4931 KLEllington@lbl.gov http://gundog.lbl.gov/EP/ep_main.html http://www.eere.energy.gov/buildings/energyplus/ ew generation of whole-building energy analysis software based on successful 25-year old programs:

Used to develop state and national energy standards

 Buildings designed with these programs use average of 25% less energy

EnergyPlus is built on DOE-2 and BLAST

- 7-year collaboration among LBNL, University of Illinois and others
- Redesigned from bottom up using modular Fortran 90 code: makes it easier to keep EnergyPlus up to date
- More accurate simulation results from features not found in earlier programs, such as:
 - Link to CAD
 - Heat balance loads calculation every time step
 - Multizone air flow calculation
 - Network-based HVAC systems
 - Simulation of newer technologies: photovoltaics, radiant cooling, etc.
- R&D 100 award winner

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