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New generation of whole-building energy analysis software based on successful 25-year old programs: DOE-2 and BLAST

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