

Industry: Energy and Utilities
Spotlight: Partnership for Energy Efficient Buildings
Domains: Software, GUI

Infosys Co-Develops Design Software for Energy-Efficient Buildings with Lawrence Berkeley National Laboratory

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News Highlights

- Infosys Technologies (NASDAQ: INFY) and U.S. Department of Energy's Lawrence Berkeley National Laboratory (Berkeley Lab) are collaborating on the development of a graphical user interface (GUI) for the EnergyPlus building simulation engine that will assist Architects, Engineers, Designers and Developers to create the most energy efficient commercial buildings possible. Both EnergyPlus and the GUI will be widely available free to users.
- Commercial buildings in the U.S. account for nearly three-quarters of all electricity consumption in the U.S., making them a major source of direct and indirect CO₂ emissions. New construction or renovation of buildings into green buildings requires new software tools to predict the energy performance before work begins. The GUI developed jointly by Infosys and Berkeley Lab will make it much quicker and easier for architects and engineers to predict the energy and water consumption and peak electricity demand for different design alternatives. The goal is to improve the design process and reduce the operating costs of buildings.
- Berkeley Lab's vision is to transform the U.S. commercial building sector in 15-20 years by saving more than four quadrillion BTUs of energy and reducing CO₂ emissions by 400 million tons annually. This is equivalent to taking more than a third of current U.S. automobiles off the road.
- The Development of the EnergyPlus GUI was funded by the [US Department of Energy](#), the [California Energy Commission](#) and Infosys. The first version of EnergyPlus with the new GUI is expected to be released in the summer of 2011. EnergyPlus will be compatible with Building Information Modeling (BIM) standards and will assist designers with LEED certification, American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) standards and California's Title-24 building energy code.

Key Quotes

- **Ashok Gadgil, Director of the Environmental Energy Technologies Division at Berkeley Lab:** "Our goal is to enable deep reductions in the energy consumption of existing buildings and help achieve major improvements in the energy efficiency of new buildings by developing and deploying advanced energy-efficient technologies in their design, construction and operation. Infosys's software development capabilities, together with its focus on sustainability, make it a natural partner for development of new simulation tools that will have a large measurable impact on greenhouse gas emissions and make buildings healthier and more comfortable."
- **James Boyd, Vice Chair of the California Energy Commission:** "Building designers need new and advanced tools in order to meet our net zero energy

building goals. This project is a great example of using innovative public/private partnerships to deliver advanced energy efficiency-enabling technologies to the marketplace.”

- **Ankush Patel, Vice President of Utilities, Infosys:** “As the Utility sector accelerates smart grid initiatives, it’s vital that smart energy is also pursued in the design and remodeling of homes, schools, offices and other major structures. Infosys’s collaboration with these leading organizations will help architects and engineers worldwide to develop Zero Net Energy buildings smarter, faster and easier than ever before.”

Resources

- [Infosys and Energy](#)
- [Infosys Energy Whitepapers](#)
- [Infosys Utilities Whitepapers](#)
- [Lawrence Berkeley National Laboratory](#)

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About Lawrence Berkeley National Laboratory

Berkeley Lab is a U.S. Department of Energy national laboratory located in Berkeley, California. The Lab conducts unclassified scientific research for DOE and other public agencies and is managed by the University of California. Visit our website at <http://www.lbl.gov>.

About Infosys Technologies Ltd.

Infosys (NASDAQ: INFY) defines, designs and delivers IT-enabled business solutions that help Global 2000 companies win in a Flat World. These solutions focus on providing strategic differentiation and operational superiority to clients. With Infosys, clients are assured of a transparent business partner, world-class processes, speed of execution and the power to stretch their IT budget by leveraging the Global Delivery Model that Infosys pioneered. Infosys has more than 122,000 employees in more than 50 offices worldwide. Infosys is part of the NASDAQ-100 Index and The Global Dow. For more information, visit www.infosys.com.

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