

Illinois Conference Center

Building Gross Sq. Ft: 37,327

Retrocommissioning Team Visit Period: November 2023 - January 2024

Principal Building Use: Conferences, Meetings, and Events



Building & Occupant Overview

The Illinois Conference Center is part of the iHotel complex at the University of Illinois Urbana-Champaign. The facility provides modern meeting and event spaces equipped with state-of-the-art technology and amenities. The center features versatile conference rooms and event spaces designed to accommodate various types of gatherings, from small business meetings to large conferences.



Retrocommissioning Specifics & Results

The retrocommissioning project included retiring legacy controls on AHUs and 49 VAV boxes, installing new software to enable scheduling on a per-room basis, and fixing multiple issues such as reheat control valves. The HVAC control systems were upgraded to browser-based graphics with remote access, improving economizer and relative humidity controls while eliminating simultaneous heating and cooling operations.

These measures resulted in a projected annual savings of \$84,120, including reductions of 23% in electricity, 58% in chilled water, and 68% in natural gas consumption. Utility incentives of \$108,164, including funding from Ameren grants, helped reduce the project cost significantly, achieving a 3.43-year simple payback period and a savings-to-investment ratio of 3.7.

Project Highlights

- ☐ Retired outdated HVAC controls and improved scheduling capabilities.
- ☐ Enhanced indoor air quality with precise humidity and temperature management.
- ☐ Reduced operational energy costs and extended equipment lifespan.
- ☐ Achieved projected energy savings equivalent to booking 440 additional rooms annually.

