

USGBC  
Washington, DC

Corporate | Residential | Education | Government | Hospitality | Transportation | Worship | Healthcare | Cultural and Event Centers | Commercial Lighting

In August 2009, the U.S. Green Building Council (USGBC) moved into its new headquarters at 2101 L. St., NW, in Washington, D.C. The first project to certify under LEED 2009, the two-story, 75,000-square-foot office space earned 94 of the 110 possible LEED points: 14 more than the 80 required for Platinum certification.

Through its LEED green building certification program, the USGBC is committed to encouraging and enabling green buildings and communities. Its headquarters now serve as a living lab, showcasing cutting-edge innovation – including Crestron AV and lighting control.



one large and two medium-sized divisible conference rooms, the lobby, game room and café, and on the second floor, a small conference room and a medium-sized, divisible conference room.

Crestron lighting control in the two medium conference rooms on the first floor supports both divided and full room configurations. Four GLS-ODT-C-2000 low-profile ceiling mount occupancy sensors detect when the room spaces are occupied, with advanced motion sensing for control of lighting, climate control and other devices in the room. Four GLS-LOL photocell sensors continually monitor the amount of daylight coming through the windows, to dim or switch lights off when sufficient natural light is available.

All rooms have a local AV control system, networked together to provide monitoring and automated shutdown of systems after normal working hours. Crestron RoomView® asset management software is used to view and control the power aspects of all rooms, along with the scheduling of rooms, from a single location. Connectivity to the motion sensors provide the ability to detect occupants and prevent the shutdown of a display while a room is in use, and to automatically shut down systems after a preset interval of no activity within the room. When video sources such as laptops or DVD players are connected and powered on, the system for that room automatically turns on to route the device output to the display(s). Once the device is disconnected or turned off, the display(s) and related equipment are automatically shut down to conserve power.

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Audio Video Systems, Inc. (AVS) in Chantilly, VA designed and installed a Crestron QuickMedia® system, which controls and monitors the AV sources and displays in all the public spaces of the facility. In keeping with LEED goals, AVS used ENERGY STAR-compliant products as much as possible. When an ENERGY STAR product was not available, automated power management by Crestron was used to turn off devices when not in use. AV-equipped rooms on the first floor consist of





In the medium-sized, divisible conference rooms, there are twelve-button keypads, 52-inch LCD displays and four ceiling-mounted speakers on each side. The keypads enable system control and source selection in divided mode, while a TPMC-8X wireless touchpanel controls system functionality in combined mode. The rooms on the first floor have the additional ability to share AV sources with the large conference room, lobby and café.

The large conference room has two 65-inch LCD displays located on adjacent walls. A 6000 lumen projector is mounted from the ceiling and a 161-inch diagonal motorized projection screen resides on one end. In divided mode, the flat panels are the designated displays, and TPMC-8Xs are located on each side of the room to enable system control and source selection. In combined mode, the projection system is the designated display, and the flat panels do not automatically turn on, but get manually powered up from one of the touchpanels. Twelve ceiling-mounted speakers distribute audio throughout the room, and the audio system, also configured in two zones, is controlled from either touchpanel. A wireless handheld/lavaliere microphone combination system is integrated for each side of the room to capture audio for voice reinforcement.

The small conference room on the second floor has a single 52" LCD display with integrated speakers and a 12-button keypad. Both the game room and café have 52-inch LCD displays with integrated speakers and an HDMI connection that enables the use of video gaming consoles such as an Xbox or Wii. Each room has its own 12-button keypad.

In the lobby area and a hallway near offices, 52" LCD displays with integrated speakers are used for digital signage that displays various media and information. Twelve ceiling-mounted speakers in the lobby and café are configured into two separate zones, and are controlled from the receptionist's desk, where a wired 6" TPS-3000 touchpanel provides systems control for the lobby as well as audio in the café. Sources for the displays in the lobby, hallway and café include cable television; a five-disc DVD player, and feeds from the medium and large conference rooms.

