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**SUSTAINABILITY FEATURES**

- A dedicated outdoor air supply (DOAS) system provides conditioned outdoor air to occupants throughout the entire building at rates 30 percent higher than code minimums. The system also includes an energy recovery wheel, which transfers energy from the exhaust stream to the incoming stream.

- On the second floor, 12 ceiling-mounted, ducted, heat pumps connect to a ground-source well field providing heat and cooling. A closed loop piping system circulates water between the building and the ground-source wells.

- One-third of the roof contains a 20 kW photovoltaic solar array of 120 panels. The energy fed to the utility grid equates to approximately 8 percent of the building’s annual energy consumption.

- The site was enhanced by the removal of on-grade parking for a bio-retention pond, reducing heat island effects and lowering site runoff by 31 percent.

- 92 percent of building structure/shell was retained, and 2,200 tons of construction waste were recycled.
Open Book
The revamped building now allows members worldwide to peer inside its workings, with 1,300 trended points of data available via the web to provide needed access for sound research and study of building improvements.

Vaughn liked that fact that Green Globes’ straightforward approach revealed improvements he could readily implement. For example, the organization previously didn’t track waste recovery. “By going through the Green Globes spreadsheet, I realized that was something we could easily do. Now, we work with our vendors to quantify it,” Vaughn says. “We also added an eyewash station to benefit our janitorial service providers, and we documented our emergency procedures to make sure we had things covered—that was very useful,” asserts Vaughn.

The final report included a suggestion for daylight harvesting with sensors to further enhance the building’s remarkable energy efficiency. Vaughn says ASHRAE has watched lighting technology rapidly improve and is now on the verge of making changes in this area.

For an organization that plans to maintain a high level of building performance over time, Green Globes offers clear guidance. “The process is self-paced and somewhat tutorial so I didn’t have to read a manual before I dive in, start compiling information and answer the [questionnaire],” explains Vaughn. “Working with the assessor also created a more personal connection and provided me with direct feedback.”