Sustainability in Construction: Student Pavilion proving site

The Student Pavilion is a student activities center and event space operated by students. Using the 74,653 square foot Student Pavilion project as a test site, ASU is developing a new model for design, construction and building ownership by applying Net Zero Energy and Zero Waste goals.

A Net Zero Energy and Waste building consumes only as much energy as is produced and eliminates solid waste sent to landfills.

Process improvements
1. Net Zero Energy model
Applies Energy Use Intensity (EU) = kBTU/sf/yr goals to create a model of highly efficient systems to be used in future buildings and remodels.

2. Zero Waste Project Initiation document
Guides project participants including contractors, the design team, and owners and operators to make decisions that align with ASU Zero Waste goals.

3. Net Zero Building owner’s handbook
Provides all building operators the tools required to maintain the systems and behaviors to support Net Zero energy and waste goals.

cfo.asu.edu/student-pavilion

Process improvement in action:
Student Pavilion demolition site achieved 99.91% diversion rate

- 14.95 tons of fixtures reused
- 24.10 tons of hard-to-divert materials recycled
- 3,353.75 tons diverted locally without any waste to energy
- Only 2.96 tons to landfill