The new student housing complex at Education City in Doha, Qatar, models best practices in sustainable design. Burns & McDonnell is designing two 350,000-square-foot, six-building housing complexes as a self-sufficient, zero-waste community. It will be the first student housing complex in the world to achieve LEED® Platinum certification.

With an architectural design based on a traditional Islamic village, separate male and female complexes will each contain three residence facilities, two apartment buildings and a residence community center to accommodate all aspects of student life. These complexes will showcase the world’s most advanced technologies, including the use of renewable energy sources, network convergence and biometric security systems.

Six leading international universities have branch campuses at Education City: Virginia Commonwealth University School of the Arts, Weill Cornell Medical College, Texas A&M University, Carnegie Mellon University, Georgetown University School of Foreign Service and Northwestern University.

For more information, contact Mike Roark, (816) 822-3190.

---

Model Sustainability

Project: Student Housing Complex
Location: Doha, Qatar
Client: Qatar Foundation

Wind turbines and a roof-mounted photovoltaic system supply power.

Advanced water technology, including a biomass wall for gray water filtration, will recycle and redistribute precious water supplies.

Windows recessed into the thick walls provide lighting while preventing heat gain from direct sunlight and provide air locks at all entry points.

Cooling white roofing reflects sunlight.
Structurally thickened walls create thermal mass to achieve insulation values of R30 to R50.

Cooling white roofing reflects sunlight.

Fiber-optic connections to the Education City wireless network allow card access to buildings and room-to-room video conferencing.

Smart-room technology saves energy while allowing students to set custom temperature, lighting and MP3 capability settings.

Biometric security systems protect access.