**INDOOR ENV. AIR QUALITY**

- CO₂ sensors ensure adequate fresh air is provided to densely occupied spaces
- Walk-off grilles in the main entryways prevent cross-contamination
- Over 30% increase in outdoor air ventilation compared to minimum rates
- Multi-level lighting controls in the group rooms (e.g. meeting rooms) allow students to adjust lighting while saving energy
- Post-occupancy thermal comfort will identify opportunities to further improve occupant comfort

**MATERIALS & RESOURCES**

- Diverting over 75% of construction wastes from landfill
- Building materials contain recycled content and were extracted, processed, and manufactured regionally
- Wood products are sustainably harvested and certified by Forest Stewardship Council
- Low-emitting materials, such as zero-VOC paints, used during construction ensure a healthy living environment

**SUSTAINABLE SITES**

- Open space and gardens provided by the building are vegetated with local plants and trees
- Additionally, they are accessible to all pedestrians, encouraging more recreation time and physical activities
- High-reflectance surface materials, such as light-gray pavers and white roofing, mitigate heat island effect

**TAKE ACTION TODAY!**

**STUDENT UNION RENOVATION**

**GREEN BUILDING BROCHURE**

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**STUDENT UNION RENOVATION**

**GREEN BUILDING BROCHURE**
Located at the center of the UMass Amherst campus, the Student Union building was designed by architect and UMass alumnus Louis Warren Ross in the modernist style. In 1957 at the time of its completion, it was the first campus building dedicated to student organizations and extracurricular activities and served 4,800 students.

Today, the building supports over 30,000 students and over 400 registered student organizations (RSOs). The $55 million renovation project is jointly funded by the University and a temporary increase in student fees. Shepley Bulfinch’s design revitalizes the facility as a modern hub for student activity and interaction, and reconnects the building to its surrounding natural landscape. As a “global campus living room,” the design embraces student entrepreneurship, organizations, and events to support collaboration, multidisciplinary learning, and leadership. This project is certified LEED Silver.

**INNOVATION IN DESIGN**

- Green Housekeeping Program in place to provide clean, green and virus-free environment
- Active green building public education programs
- Low-mercury lighting
- Biophilic design through the use of large areas of glass allowing for views out towards nature and for natural light to flood into the space
- The color palette captures the rich hues of the agrarian locale as well as the robust maroon that is part of the University’s identity

**LOCATION & TRANSPORT**

- Located in a densely developed neighborhood that provides easy walking accesses to the library, restaurants, retail, and other core community services
- Bus stops within a 1/4 mile walk provide public transit as an alternative to individual cars commuting, helping reduce carbon emissions
- Valley Bike Share is offered on campus and its network is extended into the community, providing students and staff a zero-emission transit mode

**ENERGY & ATMOSPHERE**

- A 20% energy cost savings is achieved through optimized energy system design, such as alternative fuels and enhanced interior insulation
- Enhanced commissioning ensures building systems perform as intended post-occupancy
- Calculation of refrigeration impact from HVAC systems indicates minimized contributions to global warming and ozone depletion
- Sub-metering of all systems that use over 10% building energy to help understand system performance and improve efficiency
- A Demand Response program is implemented and monitored to estimate peak electricity demand and help shed load

**WATER EFFICIENCY**

- No irrigation for landscaping
- 80% indoor water use reduction through rainwater capture and reuse for toilet flushing
- Separate metering for all water sources, e.g. reclaimed water