**INDOOR ENV. AIR QUALITY**

- CO\(_2\) 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!**

*LEED Silver Certification Anticipated*
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. The project anticipates LEED Silver.

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

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

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

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

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