



Foothills Campus

The following sites are not part of the walking tour. They are located on CSU's Foothills Campus.

Solar Plant

- A public-private partnership among CSU, Xcel Energy, and Fotowatio Renewable Ventures.
- 5.3 MW array with an annual expected output of 8,500,000 kWh, enough to cover 33 percent of the electricity consumed on the Foothills Campus.
- 30-acre plant with more than 23,000 solar panels.

Research Innovation Center (RIC)

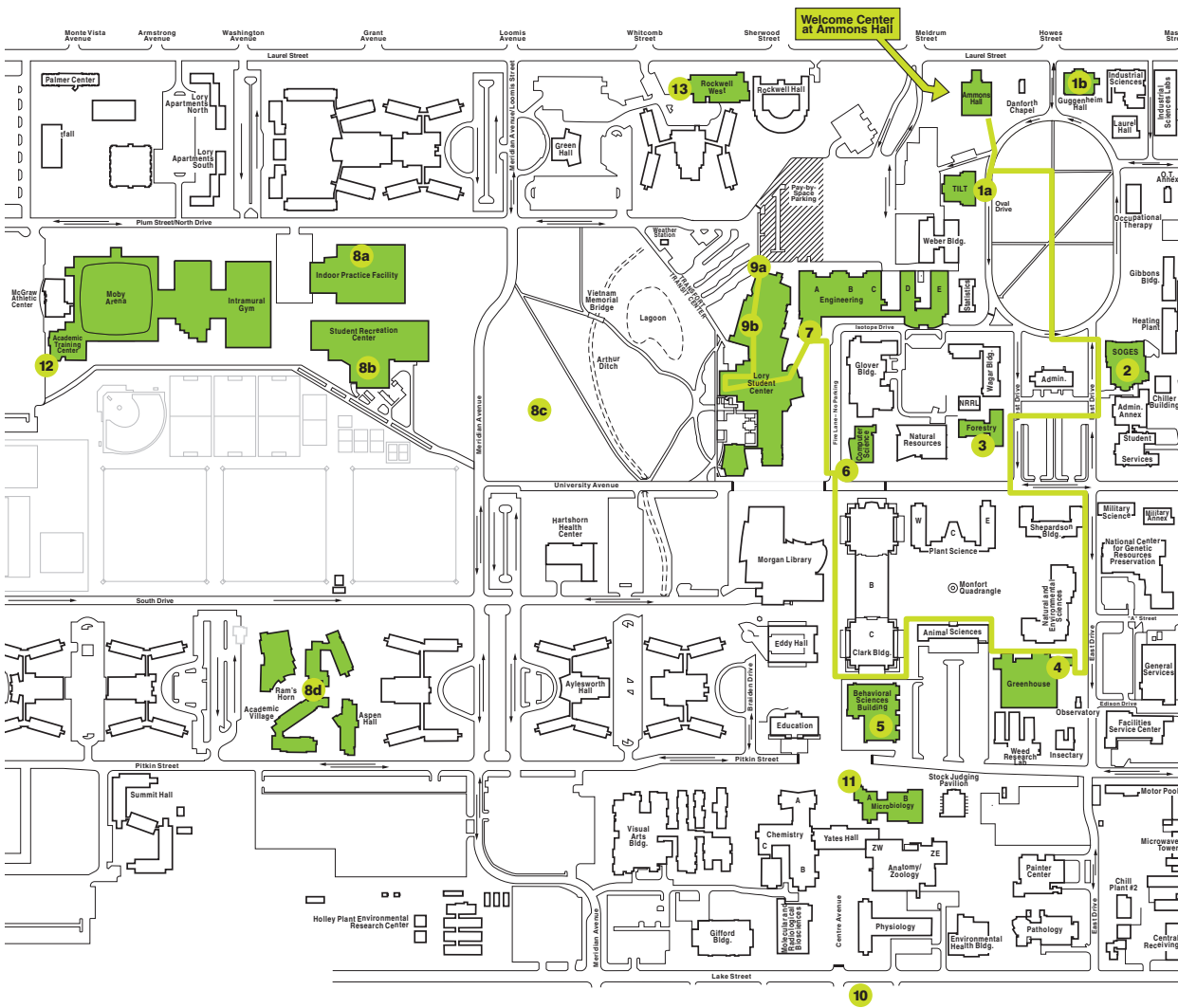
- Hot-water preheating system at the boiler that allows the use of boiler exhaust to heat water for the building systems.
- Efficient design will help reduce natural gas use for the building.
- 57-kW photovoltaic array.
- Anticipating LEED Gold certification.

Biomass Plant

- Burns approximately 600 tons of wood chips from fire mitigation projects each year to heat water and displace natural gas use.
- The plant has a rating of 46 bhp.
- Biomass energy produces 96 percent fewer overall emissions than natural forest fires and 97 percent fewer than prescribed burning.

Earth Flow Composting Project

- Large-scale in-vessel composter on Foothills campus.
- The Earth Flow bin will turn the 300,000 pounds of compostable material from the dining center pulpers as well as some organic material from campus into soil amendments.
- Soil is targeted for use in campus landscaping projects.



the green CAMPUS WALKING TOUR



Colorado State University



1b

1a TILT (The Institute for Teaching and Learning)

- Repurposed former Music building, originally built in 1928, for modern use.
- Retained 100 percent of structural walls, floor, and roof.
- HVAC system replaced with more effective and energy-efficient system.
- Installed more efficient toilets that significantly reduced water use.

1b Guggenheim

- Renovated in 2003 to its original 1910 appearance.
- A graduate class led the renovation and utilized sustainable concepts including recycled carpeting, non-toxic paints, ultra low-flow plumbing, energy-efficient lighting, and a solar-powered clock.
- First classrooms on any university campus to achieve Leadership in Energy and Environmental Design (LEED) for Commercial Interiors Silver certification.

2 SoGES (Johnson Hall)

- Umbrella organization that encompasses all environmental education and research at the university.
- Addresses multiple challenges to global sustainability through broad-based research, curricular, and outreach initiatives.
- Funds interdisciplinary research working groups and resident fellows with membership from all eight colleges.

3 Forestry

- Provides stewardship of the state's forest resources and reduces related risks to life, property, and the environment for the benefit of present and future generations.
- Operates 17 district offices across Colorado. Delivers a range of services including Forest Management, Wildland Fire, Urban and Community Forestry, and Conservation Education.
- The seedling nursery program on the Foothills Campus grows 2 million seedlings each year, mostly outdoors, helping to reduce carbon dioxide.



4

4 Wetlands and Greenhouse with Low-carbon Lettuce

- Creatively reuses and cleans up waste water from the Greenhouse.
- Provides a real-life demonstration of bioremediation for students.
- Greenhouse grows 20 varieties of "low-carbon lettuce," which is served at the Aspen Grille restaurant on campus.
- Hosts a large number of research projects.

5 Behavioral Sciences Building

- Features a garden atrium, water-efficient landscaping, use of renewable energy systems, and local materials.
- Anticipating LEED Gold certification.

6 Computer Science Building

- Contains state-of-the-art computer labs to support student learning 24/7.
- Operable windows have been placed to optimize views and daylighting with sunshades, high performance glass, and perimeter-zoned photocell direct/indirect light fixtures.
- Exterior envelope and building systems are designed for energy efficiency with a concerted effort to use sustainable materials and finishes where appropriate.

7 Solar Panels on Engineering Bldg.

- Installed in June 2009 in partnership with the Governor's Energy Office.
- 18.9-kW solar array produces more than 25,000 kWh per year and reduces the greenhouse gas emissions of the building by 18.3 metric tons per year.
- The 108 panels tie directly into the building's electrical system.



8d

LSC Deck (West of Main ballroom)

View sites 8a - 8d from the deck.

8a Indoor Practice Facility

- Designed for use by multiple sports programs with a 70-yard synthetic turf field, 4-lane synthetic sprint track, batting and golf cages, and basketball/volleyball court.
- Uses natural daylighting, creatively cleans stormwater with vegetation before leaving site, and features water-conserving landscaping.
- Anticipating LEED Gold certification.

8b Recreation Center

- Re-use of more than 75 percent of existing structural walls, floors, and roofs.
- Water-efficient landscaping and 100 percent use of non-potable water.
- Anticipating LEED Gold certification.

8c Lagoon Revitalization

- Project improves flood prevention by increasing detention capacity on campus.
- Irrigation system uses untreated College Lake water instead of treated water.
- Wetland bioremediation of playing field runoff.
- Waterfall bioremediation and oxygenation of Lagoon water.

8d Academic Village

- Aspen Hall opened in fall 2009 and is CSU's first LEED Gold certified residence hall.
- On-site thermal plant features solar panels, 95 percent energy-efficient boilers for heating water, and an innovative system that makes ice at night when electric rates are lowest and then reverses the process during the day to cool the building.
- Ram's Horn Dining Center features a pulper that reduces water use and creates a compostable by-product from all food and paper waste.

9a Transit Center

- The first LEED Gold building on campus.
- Recycled granite, concrete, and drywall were used in the construction of the facility.
- Recycled and/or salvaged 75 percent of construction, demolition, and land-clearing waste created in the construction process.

9b Aspen Grille

- Student-run restaurant that has been certified by the Green Restaurant Association as a "green restaurant," one of only two in Colorado.
- Uses local food products, energy-efficient grills, low-flow faucet aerators, and biodegradable cleaning products.
- Twenty varieties of "low-carbon lettuce" are biked over from the campus Greenhouse.

10 Lake Street Parking Garage

- Opened in March 2010 on the site of an existing parking lot.
- Features four tiers with 900 parking stalls as well as street-level retail and office space. Covered bicycle parking is also available as well as spots reserved for low-emitting vehicles.
- Anticipating LEED Gold certification.
- Features a 133 kW, 9,000 square-foot solar panel array above the fourth tier.

11 Microbiology Study Lounge

- Green roof demonstration in partnership with the Department of Horticulture and Landscape Architecture to determine best practices.

12 Academic and Training Center

- Contains a state-of-the-art weight room, four private tutoring rooms, a general study hall with 30 computer workstations, and a multipurpose room for meetings.
- Trees provide building shade, glass is shielded from direct sun exposure, and efficient heating and cooling systems were installed to minimize operational costs.
- Achieved LEED Gold certification in 2010.

13 Rockwell West

- Features high tech classrooms, student team rooms for collaborative learning, and conference/meeting rooms.
- Earned LEED Gold certification in 2010.