<table>
<thead>
<tr>
<th>Goal Code</th>
<th>Goal Title</th>
<th>Description</th>
<th>Action Item</th>
<th>Hard Costs</th>
<th>Soft Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Construction Activity Prevention</td>
<td>- Natural (with plans from site sale)</td>
<td>Credit earned.</td>
<td>None.</td>
<td>None.</td>
</tr>
<tr>
<td>11</td>
<td>Site Selection</td>
<td>- Architectural</td>
<td>Credit earned.</td>
<td>None.</td>
<td>None.</td>
</tr>
<tr>
<td>13</td>
<td>Site Development &amp; Community Connectivity</td>
<td>- Architectural Energy</td>
<td>Credit earned.</td>
<td>None.</td>
<td>None.</td>
</tr>
<tr>
<td>14</td>
<td>Landscaping</td>
<td>- Architectural Energy</td>
<td>Credit earned.</td>
<td>None.</td>
<td>None.</td>
</tr>
<tr>
<td>15</td>
<td>Site Development, Protect or Restore Habitat</td>
<td>- Architectural Energy</td>
<td>Credit earned.</td>
<td>None.</td>
<td>None.</td>
</tr>
<tr>
<td>16</td>
<td>Site Development, Meet Urban Open Space Requirements</td>
<td>- Architectural Energy</td>
<td>Credit earned.</td>
<td>None.</td>
<td>None.</td>
</tr>
<tr>
<td>18</td>
<td>Heat Island Effect, Non-Roof</td>
<td>- Architectural Energy</td>
<td>Credit earned.</td>
<td>None.</td>
<td>None.</td>
</tr>
<tr>
<td>20</td>
<td>Light Pollution Reduction</td>
<td>- Architectural Energy</td>
<td>Credit earned.</td>
<td>None.</td>
<td>None.</td>
</tr>
<tr>
<td>Requirement</td>
<td>Action Items</td>
<td>Points</td>
<td>Champion</td>
<td>Requirement</td>
<td>Action Items</td>
</tr>
<tr>
<td>---------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>--------</td>
<td>----------</td>
<td>-------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Water Efficient Landscaping: Reduce by 30%</td>
<td>- Arth Smith: Design an irrigation system with at least 35% less water from its baseline use.</td>
<td>3</td>
<td>EcoSys</td>
<td>1</td>
<td>Prereq 1: Compliance with Submittals.</td>
</tr>
<tr>
<td>Water Use Reduction: 30% Reduction</td>
<td>- Ballard Group: Implement strategies that are equivalent to reducing 30% of the building's water use compared to the baseline.</td>
<td>2</td>
<td>Ballard Group</td>
<td>2</td>
<td>Prereq 1: Compliance with Submittals.</td>
</tr>
<tr>
<td>Water Use Reduction: 20% Reduction</td>
<td>- Ballard Group: Implement strategies that are equivalent to reducing 20% of the building's water use compared to the baseline.</td>
<td>1</td>
<td>Ballard Group</td>
<td>1</td>
<td>Prereq 1: Compliance with Submittals.</td>
</tr>
</tbody>
</table>

**Energy & Atmospheres**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Action Items</th>
<th>Points</th>
<th>Champion</th>
<th>Requirement</th>
<th>Action Items</th>
<th>Points</th>
<th>Champion</th>
<th>Requirement</th>
<th>Action Items</th>
<th>Points</th>
<th>Champion</th>
<th>Requirement</th>
<th>Action Items</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fundamental Commissioning of the Building Energy Systems</td>
<td>- Arth Smith: Ensure that commissioning activities are completed in accordance with the LEED-NC 2.2 Rating System.</td>
<td>3</td>
<td>EcoSys</td>
<td>3</td>
<td>Prereq 1: Compliance with Submittals.</td>
<td>3</td>
<td>EcoSys</td>
<td>3</td>
<td>Prereq 1: Compliance with Submittals.</td>
<td>3</td>
<td>EcoSys</td>
<td>3</td>
<td>Prereq 1: Compliance with Submittals.</td>
<td>3</td>
</tr>
<tr>
<td>Minimum Energy Performance</td>
<td>- Arth Smith: Ensure that the building design complies with the mandatory provisions of Sections 9.4.4.9, 9.4.10, 9.4.11, and 9.4.12 of ASHRAE/IESNA Standard 90.1-2004.</td>
<td>2</td>
<td>EcoSys</td>
<td>2</td>
<td>Prereq 1: Compliance with Submittals.</td>
<td>2</td>
<td>EcoSys</td>
<td>2</td>
<td>Prereq 1: Compliance with Submittals.</td>
<td>2</td>
<td>EcoSys</td>
<td>2</td>
<td>Prereq 1: Compliance with Submittals.</td>
<td>2</td>
</tr>
<tr>
<td>Fundamental Refrigeration Management</td>
<td>- Ballard Group: Ensure that HVAC equipment is designed and commissioned in accordance with ASHRAE/IESNA Standard 90.1-2004.</td>
<td>1</td>
<td>Ballard Group</td>
<td>1</td>
<td>Prereq 1: Compliance with Submittals.</td>
<td>1</td>
<td>Ballard Group</td>
<td>1</td>
<td>Prereq 1: Compliance with Submittals.</td>
<td>1</td>
<td>Ballard Group</td>
<td>1</td>
<td>Prereq 1: Compliance with Submittals.</td>
<td>1</td>
</tr>
<tr>
<td>Optimize Energy Efficiency</td>
<td>- Arth Smith: Ensure that energy use is minimized by implementing the best practices and strategies outlined in the proposed building performance rating compared to the baseline building performance rating.</td>
<td>3</td>
<td>EcoSys</td>
<td>3</td>
<td>Prereq 1: Compliance with Submittals.</td>
<td>3</td>
<td>EcoSys</td>
<td>3</td>
<td>Prereq 1: Compliance with Submittals.</td>
<td>3</td>
<td>EcoSys</td>
<td>3</td>
<td>Prereq 1: Compliance with Submittals.</td>
<td>3</td>
</tr>
</tbody>
</table>

**Green Power**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Action Items</th>
<th>Points</th>
<th>Champion</th>
<th>Requirement</th>
<th>Action Items</th>
<th>Points</th>
<th>Champion</th>
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<th>Action Items</th>
<th>Points</th>
<th>Champion</th>
<th>Requirement</th>
<th>Action Items</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green Power</td>
<td>- CSU: Ensure that at least 20% of the building's electricity is non-renewable power.</td>
<td>1</td>
<td>CSU</td>
<td>1</td>
<td>Prereq 1: Compliance with Submittals.</td>
<td>1</td>
<td>CSU</td>
<td>1</td>
<td>Prereq 1: Compliance with Submittals.</td>
<td>1</td>
<td>CSU</td>
<td>1</td>
<td>Prereq 1: Compliance with Submittals.</td>
<td>1</td>
</tr>
</tbody>
</table>
### LEED-NC Version 2.2 Registered Project Checklist - FINAL

**Project:** CSU Academic Training Center  
**Last Updated:** 4/3/2010  
**Points: 43 of 71**

#### Materials Reuse

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Action Items</th>
<th>Hard Costs</th>
<th>Soft Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Soft Costs</strong></td>
<td>Recycling area</td>
<td>8% (contractor: off site recycling service)</td>
<td></td>
</tr>
<tr>
<td><strong>Hard Costs</strong></td>
<td>None.</td>
<td>None.</td>
<td></td>
</tr>
</tbody>
</table>

**Champion**:
- None.

**None.**

#### Project Totals (pre-certification estimates): 68 Points

### Project: LEED-NC Version 2.2

#### Last Updated:
- LEED-NC Version 2.2 Registered Project Checklist - FINAL

#### Prereq 1: Required

- **Credit 2.1:** Building Reuse: Maintain 50% of Interior Non-Structural Elements
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Prereq 2: Required

- **Credit 2.2:** Construction Waste Management, Maintain 15% from Disposal
  - **Score:** 4/7
  - **Status:** Y
  - **Goal:** GOLD

#### Credit 2.3: Required

- **Credit 2.3:** Materials Reuse: Maintain 15% from Disposal
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Credit 2.4: Required

- **Credit 2.4:** Recycled Content: Maintain 10% post-consumer + 10% pre-consumer
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Credit 2.5: Required

- **Credit 2.5:** Regional Materials: Maintain 10% Extruded, Processed & Manufactured Regionally
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Credit 2.6: Required

- **Credit 2.6:** Recycled Content: Maintain 10% post-consumer + 10% pre-consumer
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Credit 2.7: Required

- **Credit 2.7:** Recycled Content: Maintain 10% post-consumer + 10% pre-consumer
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Credit 2.8: Required

- **Credit 2.8:** Regional Materials: Maintain 10% Extruded, Processed & Manufactured Regionally
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Credit 2.9: Required

- **Credit 2.9:** Recycled Content: Maintain 10% post-consumer + 10% pre-consumer
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Credit 2.10: Required

- **Credit 2.10:** Certified Wood
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Credit 2.11: Required

- **Credit 2.11:** Construction Waste Management, Maintain 15% from Disposal
  - **Score:** 4/7
  - **Status:** Y
  - **Goal:** GOLD

#### Credit 2.12: Required

- **Credit 2.12:** Materials Reuse: Maintain 15% from Disposal
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Credit 2.13: Required

- **Credit 2.13:** Recycled Content: Maintain 10% post-consumer + 10% pre-consumer
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Credit 2.14: Required

- **Credit 2.14:** Regional Materials: Maintain 10% Extruded, Processed & Manufactured Regionally
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Credit 2.15: Required

- **Credit 2.15:** Recycled Content: Maintain 10% post-consumer + 10% pre-consumer
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Credit 2.16: Required

- **Credit 2.16:** Certified Wood
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Credit 2.17: Required

- **Credit 2.17:** Construction Waste Management, Maintain 15% from Disposal
  - **Score:** 4/7
  - **Status:** Y
  - **Goal:** GOLD

#### Credit 2.18: Required

- **Credit 2.18:** Materials Reuse: Maintain 15% from Disposal
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Credit 2.19: Required

- **Credit 2.19:** Recycled Content: Maintain 10% post-consumer + 10% pre-consumer
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Credit 2.20: Required

- **Credit 2.20:** Regional Materials: Maintain 10% Extruded, Processed & Manufactured Regionally
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

### Indoor Environmental Quality

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Action Items</th>
<th>Hard Costs</th>
<th>Soft Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Soft Costs</strong></td>
<td>Recycling area</td>
<td>8% (contractor: off site recycling service)</td>
<td></td>
</tr>
<tr>
<td><strong>Hard Costs</strong></td>
<td>None.</td>
<td>None.</td>
<td></td>
</tr>
</tbody>
</table>

**Champion**:
- None.

**None.**

#### Prereq 5: Required

- **Credit 5.1:** Indoor Environmental Quality: Minimum IAQ Performance
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Prereq 6: Required

- **Credit 6.1:** Construction Waste Management, Maintain 15% from Disposal
  - **Score:** 4/7
  - **Status:** Y
  - **Goal:** GOLD

#### Prereq 7: Required

- **Credit 7.1:** Materials Reuse: Maintain 15% from Disposal
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Prereq 8: Required

- **Credit 8.1:** Recycled Content: Maintain 10% post-consumer + 10% pre-consumer
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Prereq 9: Required

- **Credit 9.1:** Regional Materials: Maintain 10% Extruded, Processed & Manufactured Regionally
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Prereq 10: Required

- **Credit 10.1:** Recycled Content: Maintain 10% post-consumer + 10% pre-consumer
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Prereq 11: Required

- **Credit 11.1:** Certified Wood
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Prereq 12: Required

- **Credit 12.1:** Construction Waste Management, Maintain 15% from Disposal
  - **Score:** 4/7
  - **Status:** Y
  - **Goal:** GOLD

#### Prereq 13: Required

- **Credit 13.1:** Materials Reuse: Maintain 15% from Disposal
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Prereq 14: Required

- **Credit 14.1:** Recycled Content: Maintain 10% post-consumer + 10% pre-consumer
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Prereq 15: Required

- **Credit 15.1:** Regional Materials: Maintain 10% Extruded, Processed & Manufactured Regionally
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Prereq 16: Required

- **Credit 16.1:** Recycled Content: Maintain 10% post-consumer + 10% pre-consumer
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD

#### Prereq 17: Required

- **Credit 17.1:** Certified Wood
  - **Score:** 4/6
  - **Status:** Y
  - **Goal:** GOLD
### Credit 3.2: Low-Emitting Materials, Paints & Coatings

**Saunders**  All adhesives and sealants used on the interior of the building (defined as inside of the weatherproofing system) and applied on-cast shall comply with the requirements of the following reference standards:

- **Adhesives, Sealants and Sealant Primers:** South Coast Air Quality Management District (SCAQMD) Rule #1168.

  - VOC limits are listed in the table below and correspond to an effective date of July 1, 2005 and rule amendment date of January 7, 2005.

- **Aerosol Adhesives:** Green Seal Standard for Commercial Adhesives GS-36 requirements in effect on October 10, 2000.

**Credit earned.** Materials tracking.

### Credit 3.3: Low-Emitting Materials, Carpet Systems

**Saunders**  All carpet installed in the building interior (defined as inside of the weatherproofing system) and applied on-site shall comply with the following criteria:

- **Architectural paints, coatings and primers applied to interior walls and ceilings:** Do not exceed the VOC content limits established in Green Seal Standard GS-11, Paints, First Edition, May 20, 1995.

- **Floor coverings:** Do not exceed the VOC content limit of 255 g/L, established in Green Seal Standard GS-GO, Corrosion-Resistant Paints, Second Edition, January 7, 1997.

- **Wood flooring, floor coatings, stain, and specialty applied to interior elements:** Do not exceed the VOC content limits established in South Coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coatings, rules in effect on January 1, 2004.

**Credit earned.** Materials tracking.

### Credit 3.4: Low-Emitting Materials, Composite Wood & Agglomerate Products

**Saunders**  Composite wood and/or agglomerate products used on the interior of the building (defined as inside of the weatherproofing system) shall contain no added urea-formaldehyde resin. Laminating adhesive used to fabricate on-site and shop-assembled composite wood and/or agglomerate products shall contain no added urea-formaldehyde resin. Composite wood and/or agglomerate products are defined as: particleboard, medium density fiberboard (MDF), plywood, wheatboard, strawboard, panel substrates and door cores. Materials considered fit-out, furniture, and equipment (FF&E) are not considered base building elements and are not included.

**Credit earned.** Wood products tracking.

### Indoor Chemical & Pollutant Source Control

**Saunders**  Design to minimize and control pollutant entry rate pollutions and interior cross-ventilation of regularly occupied spaces. Employ permanent entryways at least as feet long as the primary direction of travel to capture air particulates from entering the building for entryways are those that serve as regular entry points for building users. Acceptable entryway systems include permanently installed grates, grilles, or other systems that allow for clearing when not in use. For garages, housekeeping/laundry areas and copying/printing rooms, provide self-closing doors and exhaust fans. The exhaust rate shall be at least 0.5 cfm/sq. ft of outside air or the design minimum outside air rate determined in EQ Prerequisite 1, whichever is greater. These conditions shall be maintained until a total of 14,000 cu.ft of outside air has been delivered to the space.

**Credit earned.** Indoor Chemical & Pollutant Source Control.

### Controllability of Systems, Lighting

**Saunders**  Develop and implement an Indoor Air Quality (IAQ) Management Plan for the construction and pre-occupancy phases of the building as follows:

- During construction meet or exceed the recommended Control Measures of the Steel Mite, Air and Conditioning National Contractors Association (SMACNA) AG Guidelines for Occupied Buildings under Construction, 1995, Ch. 3.
- Project airsealed on-site or installed absorptive materials to minimize moisture damage.
- If permanently installed air handlers are used during construction, filtration media with a Minimum Efficiency Reporting Value (MERV) of 8 shall be used in each return air grille, as determined by ASHRAE 52.2-1999. Replace all filtration media immediately prior to occupancy.

**Credit earned.** Construction IAQ Management.

---

**Note:** This table includes credits related to IAQ and indoor environmental quality, including low-emitting materials, paint controls, and system controllability. Each credit is designed to address specific challenges in indoor air quality management during the construction phase and pre-occupancy period.
<table>
<thead>
<tr>
<th>Credit</th>
<th>Description</th>
<th>Oversight</th>
<th>Submittal</th>
<th>Owner</th>
<th>Hard Costs</th>
<th>Soft Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.1</td>
<td>Thermal Comfort, Design</td>
<td>1</td>
<td>C</td>
<td>Ballard Group</td>
<td>Agreement to implement a thermal comfort survey of building occupants within 10 to 18 months after occupancy. Credit earned.</td>
<td>None.</td>
</tr>
<tr>
<td>7.2</td>
<td>Thermal Comfort, Verification</td>
<td>1</td>
<td>C</td>
<td>Ballard Group</td>
<td>Agreement to implement a thermal comfort survey of building occupants within 10 to 18 months after occupancy. Credit earned.</td>
<td>None.</td>
</tr>
<tr>
<td>8.1</td>
<td>Daylight &amp; Views, Daylight 75% of Spaces</td>
<td>1</td>
<td>C</td>
<td>Ambient Energy</td>
<td>Agreement to achieve 50% direct line of sight to the outdoor environment via vision glazing between 2'6&quot; and 7'6&quot; above finish floor for building occupants in 75% of all regularly occupied areas. Credit earned.</td>
<td>None.</td>
</tr>
<tr>
<td>8.2</td>
<td>Daylight &amp; Views, Views for 90% of Spaces</td>
<td>1</td>
<td>C</td>
<td>Ambient Energy</td>
<td>Agreement to achieve 50% direct line of sight to the outdoor environment via vision glazing between 2'6&quot; and 7'6&quot; above finish floor for building occupants in 90% of all regularly occupied areas. Credit earned.</td>
<td>None.</td>
</tr>
</tbody>
</table>

**Innovation & Design Process**

<table>
<thead>
<tr>
<th>Credit</th>
<th>Description</th>
<th>Oversight</th>
<th>Submittal</th>
<th>Owner</th>
<th>Hard Costs</th>
<th>Soft Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Innovation in Design: Exemplary for Water Efficiency</td>
<td>1</td>
<td>C</td>
<td>Ballard Group</td>
<td>Awarded an Exemplary Performance credit for achieving the next incremental percentage threshold for WEc3 or 40%. Credit earned.</td>
<td>None.</td>
</tr>
<tr>
<td>1.2</td>
<td>Innovation in Design: Exceedance for Green Power</td>
<td>1</td>
<td>C</td>
<td>Ambient Energy</td>
<td>Agreement to achieve at least a 70% reduction in annual electricity consumption from baseline consumption. Use the annual electricity consumption from the results of EA Credit 1. Credit earned.</td>
<td>Green power.</td>
</tr>
<tr>
<td>1.3</td>
<td>Innovation in Design: Education</td>
<td>1</td>
<td>C</td>
<td>Ambient Energy</td>
<td>Agreement to achieve one of the following: 1) a case study 2) regularly scheduled presentations or building tours 3) signage of the environmental features of the building. Credit earned.</td>
<td>Signage.</td>
</tr>
<tr>
<td>1.4</td>
<td>Innovation in Design: Exemplary Performance for Sect 1 Heat Island Effect, Non-Roof</td>
<td>1</td>
<td>C</td>
<td>Ambient Energy</td>
<td>Agreement to achieve a heat island reduction of at least 10% of the rooftop impervious surfaces or 10% of the total impervious surfaces. Credit earned.</td>
<td>None.</td>
</tr>
<tr>
<td>1.5</td>
<td>LEED® Accredited Professional</td>
<td>1</td>
<td>C</td>
<td>Ambient Energy</td>
<td>Agreement to achieve one principal of the project team shall be a LEED Accredited Professional (AP). Credit earned.</td>
<td>None.</td>
</tr>
</tbody>
</table>