

FACILITIES MANAGEMENT
Energy Conservation Projects Summary
Updated 05/22/2016

Utility Operations – Completed in FY16

1. Buchtel Parking Garage LED Lighting Upgrades
2. UTS and Sturm Data Center [Lighting] LED Lighting Upgrades
3. Centennial Halls Common Area Lighting & Occupancy Sensor Upgrades
4. Cherrington Parking Garage LED Upgrades
5. Nelson Hall LED Upgrades
6. RSECS School of Engineering [Mechanical] Konvekta Heat Recovery System
7. Lucid Energy Dashboard [Controls]
8. Central Plant [Controls] Enernoc Demand Response
9. Dorm Energy Competition
10. Iconics Visualization Software [Controls]
11. Contract Gas Purchase

Utility Operations – Completed Prior to FY16

1. Nelson Parking Garage Lighting Upgrade
2. Daniel's Parking Garage Lighting Upgrade
3. Ritchie Magness Arena LED Lighting Retrofit
4. Seeley Mudd General Building Lighting Upgrade
5. Ritchie Center [Controls] Retro-commissioning Upgrades
6. Ben Cherrington Parking Garage [Lighting] Ceramic Metal Halide Lighting
7. Olin Hall [Mechanical] Heating Water Pump Upgrade
8. Seeley Mudd [Mechanical] Konvekta Heat Recovery System
9. General Campus LED Lighting Upgrade
10. SMART GRID [Controls]–
11. Ritchie Center [Mechanical] Ice Chiller Upgrade
12. Highlands Ranch Golf Course [Lighting] T12 Lighting Upgrades
13. Nelson Hall [Survey] Retro-commissioning Study
14. Sturm Hall [Survey] Energy Engineering Study
15. Tennis Parking Garage [Lighting] LED Lighting Upgrades
16. Kitchen Walk-in Freezers & Coolers [Mechanical] Motor Efficiency Upgrades
-
17. Campus [Lighting] Stairwell Lighting Upgrades
18. Olin Hall [Mechanical] Evaporative Pre-coolers for Air Cooled Chiller
19. Johnson McFarlane [Survey] Energy Star Certification
20. Centennial Towers Chilled Water System Pump Controls –

21. Mary Reed [Controls] Controls Upgrade
22. General Campus T12 [Lighting] Lighting Upgrade Phase II
23. University College T12 [Lighting] Lighting Upgrade
24. Academic Office Annex T12 [Lighting] Lighting Upgrade
25. Physics [Mechanical] AHU-1 VFD Addition
26. Centennial Halls & Towers [Mechanical] Boiler Replacement
27. UtiliTech [Survey] Utility Bill Analysis
28. Frontier Hall [Controls] Controls Upgrade
29. Metallurgy [Controls] Controls
30. Ricketson Law [Controls] Demand Limiting
31. Vending Misers [Controls]
32. UTS & Sturm Hall [Survey] Data Center Analysis & Controls
33. Ritchie Center [Survey] Retro-commissioning Study
34. Shwayder Art [Survey] Retro-commissioning Study
35. Olin Hall [Mechanical] Mechanical & Controls Upgrades
36. Centennial Towers [Lighting] Residence Hallway Motion Sensor Lighting Upgrade
37. University Hall [Mechanical] Variable Speed Chilled Water Pumping
38. Johnson McFarlane [Mechanical] HVAC Upgrades
39. Olin, Driscoll Center & Sturm [Mechanical] Heating and Cooling Coil Cleaning
40. Ammi Hyde [Mechanical] Boiler Replacement
41. Ammi Hyde [Controls] Controls Upgrade
42. Seeley Mudd [Survey] HVAC Upgrades
43. Sturm Central Plant [Survey] Energy Analysis
44. Shwayder Art [Controls] VAV Box Controls Upgrade
45. Centennial Halls [Survey] Onsite Energy Assessment
46. Centennial Towers [Survey] Onsite Energy Assessment
47. Shwayder Art, Seeley Mudd, University Hall, Daniels, Physics & Evans Parking [Mechanical] Heating and Cooling Coil Cleaning
48. Daniels [Survey] Re-commissioning Study
49. Newman [Controls] Sytecon Upgrade
50. Facilities [Controls] Controls Upgrade
51. Sturm Hall 348C [Mechanical] Variable Speed Hot Water Pumping
52. General Campus T12 [Lighting] Lighting Upgrade Phase 1
53. Ritchie Center [Survey] Geothermal Study
54. Physics [Controls] AHU-1 Retro-commissioning
55. Boettcher West [Mechanical] Boiler Upgrade
56. EnergyCAP Utility Tracking Database Implementation
57. Setback of Cooling Set-points across campus
58. Ritchie Center [Survey] Onsite Energy Analysis
59. University Hall [Survey] Onsite Energy Analysis

60. Centennial Halls [Controls] Retro-commissioning of Make-up Air Handling Unit serving Kitchen Area
61. Sturm Hall [Lighting] Common Area Lighting Retrofit and Restroom Occupancy Sensor Upgrade
62. Ricks Center [Controls] Rooftop AHU Upgrade
63. Newman Center [Survey] Energy Analysis
64. Ben Cherrington [Mechanical] Motor & VFD Rebate
65. Boettcher West [Mechanical] VFD Rebate
66. Shwayder Art [Mechanical] AHU-2 Motor & VFD Upgrade
67. Ritchie Center [Lighting] Concourse Restroom Occupancy Sensors
68. Seeley Mudd [Survey] Energy Analysis
69. Ritchie Center [Mechanical] Hot Water Pump VFD Upgrade
70. Melink Kitchen Hood Upgrades [Controls]
71. Real-time Monitoring [Controls]
72. Penrose Library [Lighting] Control Panel Upgrade