

Summary of Truman Sustainability Efforts (continued)


Operations (continued)

Energy - Implementing conservation measures and switching to renewable sources of energy can help save money and provide some protection from utility rate volatility. Recent Truman conservation measures include:

- Truman entered into a \$10.5 million energy performance contract with an ESCO. The energy improvements will affect more than 25 buildings on campus, and will save over \$1 million annually, which will then be used to pay for the improvements.

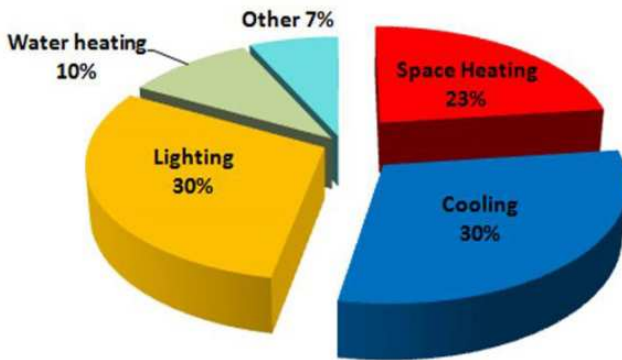
In 2014-2015, the solar panels produced 108 kW of usable electricity. This resulted in a **reduction of CO₂ emissions by 113.5 tons**

See the [Utility Dashboard](#)



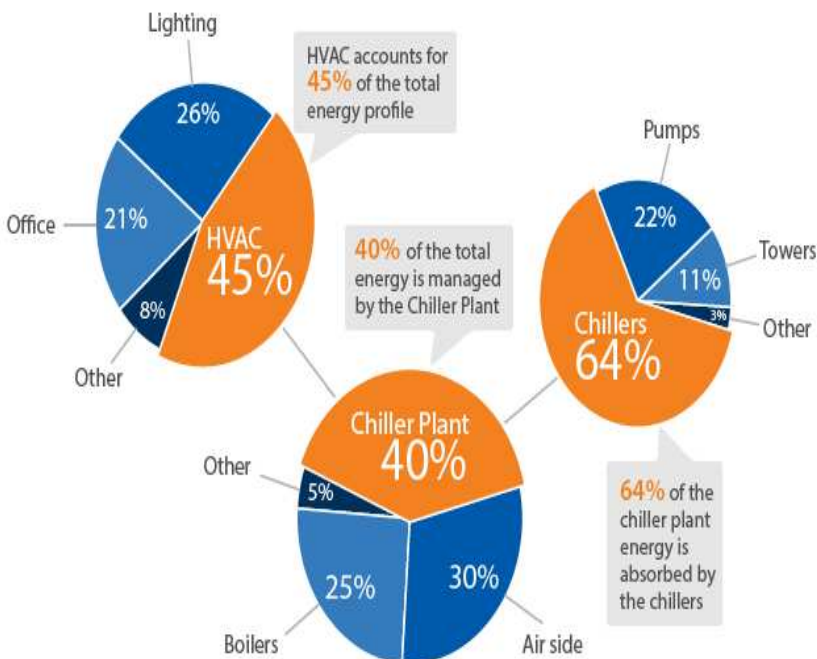
Typical Energy Usage in Facilities

Courtesy U.S. Department of Energy



The energy improvements will:

- Reduce water consumption by over 8 million gallons annually - this amount of water would fill nearly 14 Olympic-sized pools
- Reduce natural gas consumption by over 50,500 MCF annually
- Reduce electrical consumption by nearly 7.5 million kWh annually
- Reduce our annual carbon footprint by 20,990,000 lbs of CO₂
- Reduce annual emissions by an amount equal to:
 - The electricity used by 1,310 homes for one year
 - 1,071,293 gallons of gasoline consumed
 - Annual emissions of 2,004 passenger vehicles
 - The carbon sequestered annually by 7,804 acres of US forest



Major Improvements Included in the Project:

Water Efficiency – Annual savings >\$64,500

Lighting Improvements – Annual savings >\$150,000

Weatherization – Annual savings >\$8,400

Controls – Annual savings >\$370,250

Laboratory Fume Hood System Improvements – Annual savings >\$198,500

Heating and Cooling Plant Equipment Replacements – Annual savings >\$34,000

Heating, Cooling and Ventilating System Improvements – Annual savings >\$67,000

Steam System Improvements – Annual savings >\$96,000