

PROJECT PROFILE



**GSA - Census Bureau
COOKEVILLE, TN**

45% decrease in water usage

30% reduction in HVAC costs

30% reduction in lighting costs

LEED Facts

**GSA - Census Bureau
Cookeville, TN**

LEED for Commercial Interior
awarded August 2010

PLATINUM	85*
Sustainable Sites	15/21
Water Efficiency	11/11
Energy & Atmosphere	34/37
Materials & Resources	4/14
Indoor Air Quality	12/17
Innovation & Design	5/6
Regional Priority	4/4

*Out of a possible 110 points

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LEED® PROJECT PROFILE

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The GSA Census Bureau Project applied for 85 out of 110 possible LEED points ("credits"). Some of the credits applied for include:

- **SS CREDIT 2: DEVELOPMENT DENSITY AND COMMUNITY CONNECTIVITY** – This project is located within a ½ mile radius of a residential area or neighborhood with an average density of 10 units per acre net, within ½ mile of at least 10 basic services, and has pedestrian access between the buildings and services. The intent is to channel development to urban areas with existing infrastructure, protect greenfields and preserve habitat and natural resources.
- **SS CREDIT 3.2: ALTERNATIVE TRANSPORTATION, BICYCLE STORAGE AND CHANGING ROOMS** – This project provides secure bicycle racks for more than 5 percent of the tenant occupants and provides shower and changing facilities in the building for .5 percent of full time tenant occupants. The intent is to reduce pollution and land development impacts from automobile use.
- **WE CREDIT 1: WATER USE REDUCTION** – This project has utilized low flow fixtures, fittings and appliances which reduce the water use by **60 percent**. The intent is to increase water efficiency within buildings to reduce the burden on municipal water supply and wastewater systems.
- **EA PREREQUISITE 1: FUNDAMENTAL COMMISSIONING OF THE BUILDING ENERGY SYSTEMS** – The project was officially commissioned by an independent third party. The purpose is to verify that the project's energy-related systems are installed and calibrated to performing according to the owner's project requirements, basis of design and construction documents.
- **EA PREREQUISITE 2: MINIMUM ENERGY PERFORMANCE** – This project meets the energy requirements of ANSI/ASHRAE Standard 90.1-2007. The intent is to establish the minimum level of energy efficiency for the tenant space systems to reduce environmental and economic impacts associated with excessive energy use.
- **EA PREREQUISITE 3: FUNDAMENTAL REFRIGERANT MANAGEMENT** – This project does not use chlorofluorocarbon (CFC)-based refrigerants in tenant heating, ventilating, air conditioning and refrigeration systems. The intent is to reduce stratospheric depletion.
- **EA CREDIT 1.2: OPTIMIZE ENERGY PERFORMANCE, LIGHTING CONTROLS** – This project utilizes motion sensors and daylight sensors to reduce lighting power usage. The intent is to achieve increasing levels of energy conservation beyond the ANSI/ASHRAE Standard 90.1-2007 to reduce environmental and economic impacts associated with excessive energy use.
- **EA CREDIT 1.3: OPTIMIZE ENERGY PERFORMANCE, HVAC** – The HVAC system has been designed to perform **30 percent** more efficient than the minimum ANSI/ASHRAE Standard 90.1-2007. The intent is to improve the minimum level of energy efficiency for the tenant space systems to reduce environmental and economic impacts associated with excessive energy use.
- **EA CREDIT 3: MEASUREMENT AND VERIFICATION** - The project has installed sub metering equipment to measure and record water and energy uses within the tenant space. The intent is to provide for the ongoing accountability and optimization of tenant energy and water consumption over time.
- **EA CREDIT 4: GREEN POWER** - In this LEED project space, eight kwh per square foot per year is provided by renewable sources. The intent is to encourage the development and use of grid-source, renewable energy technologies on a net zero pollution basis.
- **MR PREREQUISITE 1: STORAGE AND COLLECTION OF RECYCLABLES** - The project has been designed with a recycling area to store and collect the following material types: Paper, Corrugated Cardboard, Glass and Plastics. The intent is to facilitate the reduction of waste generated by building occupants that is hauled to and disposed of in landfills.
- **IEQ CREDIT 2: INCREASED VENTILATION** - Breathing zone outdoor air ventilation rates, in all occupied spaces, have been designed to exceed minimum rates required by ASHRAE Standard 62.1-2007 by a minimum of **30 percent** . The intent is to provide additional air ventilation to improve indoor air quality for improved occupant comfort, well-being and productivity.

