

ENERGY & ATMOSPHERE

Annual saving of 38% in energy usage for the entire facility.



Tapping Natural Energy Source

- 5 Geothermal wells are the primary source of energy savings for the building, making a significant difference in conventional energy use.

Geothermal transfer tube coupled with water source heat pump heats & cools the building with earth's energy.



Smart Energy-Saving Strategies



- Localized tankless water heaters saves energy that typically gets wasted in heating a 20 gal. hot water tank.



- Smart light fixtures that enhance light quality and decrease heat build-up. Light sensors decrease use of electricity during daylight hours.



Conventional, fossil based generation of electricity releases carbon dioxide, which contributes to global warming.

The bank has taken exemplary steps in minimising the use of electricity off the grid by tapping into geothermal energy from the earth.



Middleburg Bank

Fort Evans Plaza II



Middleburg Bank, Fort Evans Plaza II, is designed to meet or exceed LEED qualifications



AMMON HEISLER SACHS ARCHITECTS, PC
ARCHITECTURE PLANNING INTERIOR DESIGN FACILITIES MANAGEMENT



No smoking policy

- Controlling environmental tobacco smoke by prohibiting smoking in and around a 25' radius from the bank facility.



Recycling program: Pre-Construction & Post Occupancy



Enhancing indoor environment quality by adopting proper waste disposal and recycling system.



Studies show that indoor environmental quality affects the productivity, overall mood, perception, cognitive retention and health of the building users.

Daylight & views play an important role in providing a productive environment. More than 90% of the bank's regularly occupied spaces enjoy views to outside.

INDOOR ENVIRONMENTAL QUALITY

Low-emitting materials

- Paints, carpets, adhesives and sealants in this facility do not contain harmful volatile organic compounds that causes off gasing.



Thermal comfort of users is monitored through sensors and user accessible controls.



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MATERIALS & RESOURCES



A number of strategies to minimize the environmental impact of construction, both in building materials and waste, were employed by the bank.



Construction waste Management

- Recyclable construction waste was sorted.
- Reusable materials were diverted to appropriate sites.
- More than 75% of the construction waste was diverted from landfills.

Biodegradable, Recycled, Renewable Materials

- Innovative use of Soy-based insulation material proved to be efficient and environment friendly.
- 90% of Recycled content in carpets used in this project.
- More than 10% of all building materials were extracted and manufactured within a 500 mile radius to support the regional economy & reduce the environmental impact of transporting of materials.



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Construction Activity Pollution Prevention Plan.

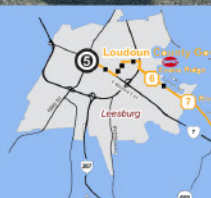
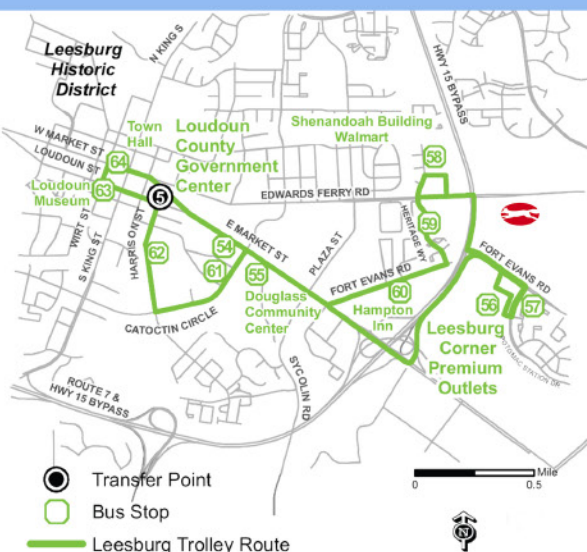
- Prevention of loss of top-soil during construction
- Care taken for prevention of sedimentation of storm sewer.
- Air & water pollution control



SUSTAINABLE

Encouraging alternative transportation

- Onsite reserved parking for Low-Emission & Fuel-Efficient Vehicles



SITES

Reducing heat- island effect



- Minimizing impact on microclimate & human and wildlife habitat by using cool roofs with high solar reflectivity.



- Project developed within 1/4 mile of existing public transport system such as the '7 to 7 on 7' & the 'Leesburg Trolley' with an intention to reduce pollution from automobile use.

- The facility is based in a pre-developed neighborhood thus reducing land development impacts.

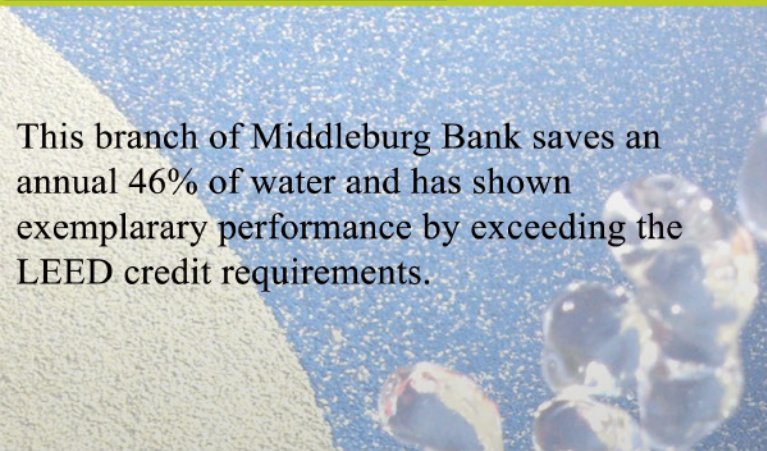


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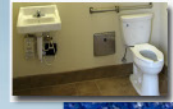


This branch of Middleburg Bank saves an annual 46% of water and has shown exemplary performance by exceeding the LEED credit requirements.

Low-Flow plumbing fixtures

- 'Low-flush' toilets are installed that uses 1 gallon of water per flush versus a standard 1.6 gallons of water for every flush in normal commercial toilets.

United States uses 340 billion gallons of fresh water from natural sources to support human activity. Using large volumes of water increases maintenance and lifecycle costs for building operations. Many water conservation strategies involve either no additional cost or rapid return on investments.



WATER

EFFICIENCY



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Elimination of potable water usage for irrigation

- The project was based on green concepts of landscaping that requires no permanent irrigation system. This saves 30% of potable water. This is accomplished by using native plants for landscaping, which are adapted to this region.



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