



## Green Elements of the St. Mark's Vision 2020 Renovation

GREEN ELEMENT	DETAILS	GREEN BENEFITS
<b>Solar panels</b>	On rear roof of parish hall	Supplies a portion of needed electricity through a renewable energy source
<b>High-efficiency building envelope</b>	Insulation of existing roof over the office and at the eaves throughout. Air/vapor barrier, weather-stripping, doors.	Saves energy. Increases comfort through better indoor air quality and moisture management.
<b>Walk-off mats</b>	Included at the 3rd Street doors to the existing undercroft and at the main lobby/foyer entry.	Improves indoor air quality.
<b>High-efficiency light fixtures</b>	Fixtures specified with LED, fluorescent, or CFL lights, where appropriate. Many light fixtures Cradle-to-Cradle Silver certified.	Saves energy. Reduces waste from bulb replacement.
<b>Advanced lighting controls in parish hall and bathrooms</b>	A single controller, allowing both manual and automated control of light schemes, controls parish hall lighting. Occupancy sensors in the parish hall and in bathrooms will dim or turn off lighting when unoccupied.	Saves energy. Supports reduced lighting use
<b>Low-flow plumbing fixtures</b>	In bathrooms and kitchen	Conserves fresh water. Reduces wastewater.
<b>Building materials with high recycled content and low volatile organic compounds (VOCs) – some regional sourcing</b>	Countertops; gypsum cement; wood windows; fiberboard/particleboard; steel components; composite products; insulation; artificial slate shingles; wood doors and windows; gypsum board; acoustic panels; resilient flooring; carpet tiles; toilet compartments; entrance floor mat; kitchen flooring	Reduces energy associated with manufacturing, transportation, and disposal.
<b>Building materials with high recycled content – some regional sourcing</b>	Sheet metal roofing, flashing, and trim; metal doors and frames; gypsum board; tile; bathroom sinks	Reduces energy associated with manufacturing, transportation, & disposal.
<b>Wood building materials with Forest Stewardship Council (FSC) certification</b>	Rough carpentry materials, fiberboard/particleboard, wood trim, sheathing, wood doors and windows	Protects water quality. Prevents loss of natural forest cover Prohibits harvest of old-growth forest Prohibits use of hazardous chemicals
<b>Low-VOC materials</b>	Adhesives, sealants, and coatings; wood doors; acoustic panels; resilient flooring; carpet tiles; and gypsum cement with low levels of volatile organic compounds	Improves air quality.
<b>Energy Star kitchen appliances</b>	New refrigerator and freezer and existing dishwasher	Saves energy. Conserves water. Reduces operating costs.

## Green Elements of the St. Mark's Vision 2020 Renovation (continued)

<b>Reused building materials</b>	Newel post, brick, and slate. Parish hall flooring reused in offices. Refurbished existing windows and louvers. Reused lumber from trusses for wood trim on columns and piers on first and second floors.	Reduces energy associated with manufacturing and transportation. Reduces landfill waste. Reduces emissions associated with incineration or decomposition.
<b>High-efficiency windows</b>	All new windows are Energy Star-rated double-pane windows with insulated glazing with argon fill and low-E coatings. Refurbished windows in new offices have new weather-stripping and sealants.	Saves energy. Increases comfort.
<b>Occupancy-based lights in bathrooms</b>	Bathroom lights on occupancy sensors	Saves energy.
<b>Elevator without machine room</b>	Takes up less space, energy-recovering combination motor/generator, LED lighting in cab	Eliminates need for oil/hydraulic fluid, avoiding potential ground contamination from oil leak. Saves energy.
<b>High-efficiency traditional split HVAC system</b>	Equipment with low-emission refrigerants rated (SEER 18) for new construction and existing undercroft. Existing boilers replaced with new, high-efficiency boilers.	Saves energy. Increases comfort. Improves moisture control.
<b>Energy Star-rated hot water heater</b>	Hot water heater replaced with Energy Star-labeled equipment	Saves energy.
<b>Construction waste management</b>	Contractor and subcontractors sorted recycling from waste	Reduces landfill waste. Reduces emissions associated with incineration or decomposition.
<b>Commissioning</b>	Being performed for HVAC system	Assures HVAC system and equipment meet design intent and owner requirements.
<b>Replacement cooling system equipment</b>	Many of the undercroft cooling system components replaced with new equipment of same standard as equipment for new construction	Saves energy. Increases comfort.
<b>Storm water management</b>	Erosion control during construction Although not part of the Vision 2020 renovation, storm water management efforts are in the planning stages.	Reduces runoff, flooding, and erosion. Reduces level of pollutants going into area streams. Increases stream health and wildlife habitats.

### A note as we occupy our new space:

Our ongoing behavior as we move into our new space will have a significant impact on our congregational environmental footprint, likely at least as much as the environmental features that have been incorporated into the renovation project. Such things as how we manage waste, whether we turn off lights or close windows, what we use for cleaning and dining supplies, and so on will all make a difference. As we move into and start using our new space, St. Mark's congregation and staff have a real opportunity to adopt new behaviors and to continue the discussion of how our practices affect the environment.