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Pennswood Village Environmental Stewardship History (May 2011)



Pennswood Village is an 82 acre senior living community that is home to over 400 residents located in Newtown, Bucks County, PA.

- 600,000 square feet of building under roof
- 5 single story, 7 two story and 2 three story residential living apartments
- 53 skilled nursing accommodations
- 35 personal care accommodations
- 2 story community building housing formal and informal dining areas, pharmacy, bank, and village salon
- Fitness center featuring gym, aerobics room, lap pool, and warm water therapy pool

Pennswood Village Recycling Program

- Organization wide programs started in early 1980's by resident volunteers
- We recycle paper/glass/plastic/cardboard/batteries/light bulbs/kitchen grease
- Local students utilize 5-10 gallons of cooking oil per month for science projects
- All Landscape Department vegetation is composted and recycled
- All Blacktop removed is recycled
- All trees cut down are chipped into mulch

Future Projects:

- Auditorium renovation will use Green Design Standards



A Commitment to Excellence

2011

- Pennswood Village has committed to pursue LEED certification for existing buildings in its Community Building. Existing Building LEED Certification helps building owners and operators measure operations, improvements and maintenance on a consistent scale, with the goal of maximizing operational efficiency while minimizing environmental impacts. This will address how our buildings are used as opposed to how they were constructed.
- Pennswood Village Personal Care Residence awarded LEED Gold Certification
- Construction began in May, 2011 in the Community Building to renovate the art gallery, gift shop, kitchen, café, dining room, library, and living room using Green design principles

2010

- Replaced Community Building and Health Center Lighting and added to Energy Management System
- Expanded use of Recycled Sidewalks

2009

- Phase II Geothermal Project: included converting the Fitness Center pools heated by waste A/C heat in summer and geothermal units in winter
- Dining Services instituted a program to purchase locally and within season to the greatest extent possible

2008

- Pennswood Village Personal Care Residence LEED Gold construction and expansion project began
- Replacement of 235-plus heat pumps in Health Center and Community Building to geothermal heat pump units
- 1978 Steam Boiler replaced with energy efficient boiler

2008

- Main Entrance redesign through the Storm Water Management System
- Installation of Recyclable Sidewalks
- Installation of full site emergency generator with ability to provide full power to Pennswood Village

2007

- Geothermal HVAC System for Community Building, Health Center and Fitness Center was installed with 150 wells, each 500 feet deep. The Geothermal System powers heating and cooling for Pennswood's pools, laundry facilities, health center, kitchen, and community building
- Installation of Waterless Urinals, which each save 40,000 gallons of water per year
- Automated water faucets and hand towel dispensers installed as well as motion detector light switches
- Installation of Rainwater Barrels and Solar Trash Containers
- Application for LEED Certification for Barclay expansion and renovation.
- Sustainable Design Team and Green Design specifications are key parts of Barclay House renovation from the beginning of the project

2006

- Housekeeping converted to a Green Cleaning Program throughout the Community to achieve the following goals:
 - No persistent, bio-accumulative or toxic chemicals
 - No ozone depleting compounds
 - No or low volatile organic compound content
 - No phosphate
 - No carcinogens
- The benefits of Green Cleaning program include:
 - Cleaner indoor air quality
 - Limits human exposure and surface from aggressive cleaning products
 - Safer for workers. Products do not contain ingredients listed under the Superfund Amendment Reauthorization Act (SARA)
 - Kills a broad spectrum of microorganism on nonporous surfaces
- Pennswood Village Board of Directors formally adopted commitment to Green specifications on all new Capital Projects for both new and renovation projects
- Pennswood Village committed to Energy Star Appliances for all purchases, including apartment heat pumps, kitchen and laundry appliances, hot water heaters, low flow toilets & showers
- Purchase only Green low or no-VOC label paints and carpets

- Underground Direct Burial Electric Loop System and Transformers from 1978 replaced

2005

Pennswood Village joined the:

- USGBC- US Green Building Council
- DVGBC-Delaware Valley Green Building Council
- LEED Certification obtained by Pete McBrien, Facilities Director

2004

- Upgraded Fire Alarm System throughout the Community
- Established a vehicle fuel efficiency standards of 22 mpg for city and 30 mpg for highway
- Small utility vehicles that can get 50 miles to the gallon were purchase for onsite use

2002-2003

- New construction projects began to include many aspects of LEED designated Green Building specifications. New apartment building and a new Fitness Center were built with:
 - Energy Recovery Unit, 4 Pipe HVAC System, Dual fuel burners in all boilers and high efficiency windows
- Natural Gas Line installed as an alternative fuel source
- Steam provided as alternative cooking method in Dining Services

2002

- Installation of Master Energy Management System
- 1st applications are the HVAC systems in the Community Building, Health Center, Mott, Newman, and Fitness Center

2001

- Removal of all Underground Fuel Oil Storage Tanks

1999-2000

- Pennswood Village developed 13 acres of land to create a Storm Water Management Regional System through a Private-Public Partnership with Middletown Township. The Storm Water Management project captures and treats water that originates off the property and travels through Pennswood Village to downstream neighborhoods
- The Storm Water management System treats storm water as a resource, not as a waste
 - Integrates detention, infiltration, bio-filtration, bio-uptake and retention to maximize effectiveness and efficiency
 - Provides flood control, peak flow control and pollutants removal
 - Attractive, highly functional system that includes interpretive areas walking paths, bird habitat and other aesthetic and passive use features for the community
- The System has won local, state and national awards and influenced storm water management strategies in local municipalities

Early 1980s

- Pennswood Village's first recycling program began by a volunteer resident

Pennswood Village is a nationally respected continuing care retirement community for those 65 and older. Home to more than 450 residents in Newtown, Pennsylvania, the Friends retirement community is accredited by the prestigious national organization Commission on Accreditation of Rehabilitation Facilities (CARF-CCAC). Residents enjoy full Type A Life Care Contracts that provide the highest level of service and unlimited access to health care with no substantial increases in monthly payments. The community's Quaker values enrich resident's lives through diversity, welcoming women and men of all races, colors, religions, national origins, and sexual orientations.

For more information, visit www.pennswood.org, e-mail info@pennswood.org, or call 215-504-1122.