

PNC Firstside Center

Pittsburgh, PA

Firstside Center

- Pittsburgh, PA
- Commercial office
- New construction
- 647,000 sq. feet (60,100 sq. meters)
- 5-story building
- Urban setting
- Completed September 2000
- Rating: U.S. Green Building Council LEED-NC, v2--Level: Silver (33 points)



Site History

- Central Business District
- Urban infill, brownfield
- Former B&O Railroad terminal
 - Operated between 1827-1987
- Limited site remediation required
- Site was exactly what PNC wanted.



Sustainability



- Light colored/high albedo materials were used for at least 36% of the site's non-roof impervious surfaces
- Brownfield
- Located adjacent to the public city bikeway, light-rail commuter transit and municipal parking deck



Energy Use

- Hybrid air distribution system
 - similar to PA DEP in Norristown
- A building automation system monitors and regulates temperature, humidity and carbon dioxide concentrations
- Exterior fixed sunshades were sized using computer modeling to reduce glare and heat gain. Solar devices control motor-operated interior shades

- **Annual Purchased Energy Use**
 - **Electricity** 18,800,000 kWh
 - **Natural Gas** 17,600 kWh

Total Annual Building Energy

- **Total Purchased** 18,900,000 kWh

Peak Power Fuel Quantity English Electricity
(Summer) 3,800 kW 5.87 W/ft²

- 30% decrease from older building

Green building materials/ features



- Low-VOC carpeting
- Cost saving of ventilation system design.
- Natural Linoleum Flooring
 - Linseed
- Use of windows to bring in natural light.

- Water efficient irrigation systems
 - Storm water filtered and used to irrigate indoor plants

Sources

- Elmer Burger
Astorino Companies
Architect
412-765-1700

US Green Building Council

Going Green in Seven Steps Magazine, Sept 2001 Issue, Green Is Good

Other Ideas

- Sustainable roofing
 - green roof, solar panels
- Reuse of storm water for use in restrooms also.