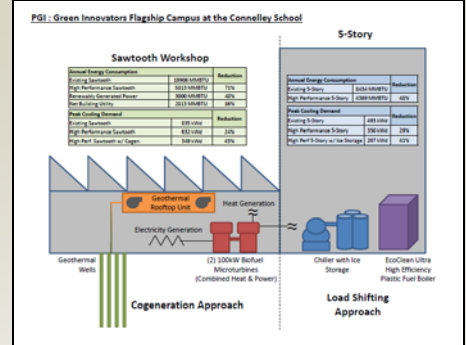


Pittsburgh Green Innovators

Adaptive Sustainable Retrofit of a Historic Site

Pittsburgh, PA



The Project:

The historic Connelley Trade School will be renovated and modernized to create the Pittsburgh Green Innovation Center, a cutting-edge training, education, and research center that will support the new green economy in Western Pennsylvania. PGI will showcase new and evolving green building technologies; will demonstrate energy efficient building systems performance and energy generation using renewable biofuels; provide green building systems training, research, and education; and provide start-up facilities for emerging green business ventures. The building will be designed to achieve a LEED® Platinum certification.

The collaborative PGI consortium includes:

- Pittsburgh Gateway
- Penn State University BioFuels Bridge and High Performance Building Center
- International Union of Operating Engineers, Local #95
- Pittsburgh Board of Education, Career and Technology Education

CJL Engineering Design Solutions:

- High Performance envelope with improved insulation, high performance glazing and sawtooth clerestories, daylighting
- Geothermal heating/cooling, EcoClean boilers with recycled plastic pellet fuel
- Microturbine Combined Heat and Power (CHP) generators, using biofuels, for off-grid peak demand shaving
- High efficiency chillers with ice thermal storage for peak demand shifting
- Rainwater reclamation, Living Machine waste water treatment
- Renewable Energy sources, including photovoltaics, solar hot water, and wind generation