

# Midtown Harrisburg Integrated Community Redevelopment



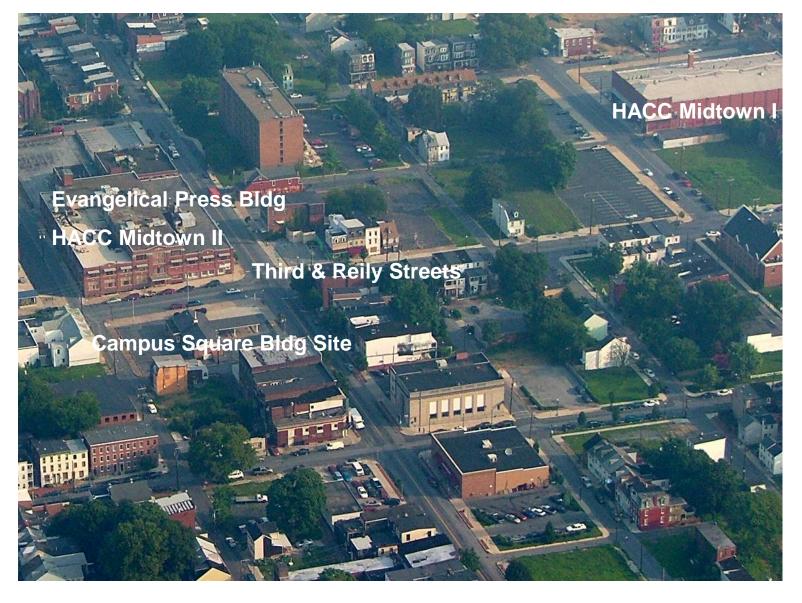
# **GreenWorks Charter:**

- Urban redevelopment brownfields, not greenfields
- Committed to the deployment of sustainable technologies – solar, geothermal, and wind
- Committed to sustainable development LEED certified buildings and communities
- Focused on integrated community development
  - Smart Growth concepts that incorporate residential, commercial, retail, and academic uses
  - Re-invigoration of "walkable" live, work, play and learn neighborhoods









# Key Issues:

- Anchor Tenant Development Momentum
- Property Assemblage
- Remediation
- Destination Development Amenities
- Safety & Security
- Parking
- Integration with Community
- Integrating Green into the Pro Forma

GreenWorks

#### MIDTOWN MASTER PLAN – OVER 1 MILLION FT<sup>2</sup> OF NEW SPACE

**BUILDING KEY** 1. Academic / Office 2. Academic / Office 3. Retail / Garage 4. CCTA Expansion 5. Academic / Garage 6. Residential 7. Auditorium / Garage 8. Residential / Retail 9. Office / Retail / Residential 10. Retail (Renovated) A. Press Building B. Midtown Scholar Books C. VOA Building D. CCTA Building 0000 000000

# **PLANNED MIDTOWN EDUCATIONAL/CORPORATE/ RESIDENTIAL/RETAIL COMMUNITY**

D

000000

0000

00000

## FORMER EVANGELICAL PRESS BUILDING - NOW HACC MIDTOWN II









#### **URBAN MEADOW**







**Green Space and Pedestrian Walkway** 

### **CAMPUS SQUARE BUILDING – THIRD AND REILY STREETS**



- Geothermally heated and cooled
- 42 kW solar array on roof
- Gold LEED certification Pending





#### CAMPUS SQUARE BUILDING – ROOFTOP SOLAR ARRAY



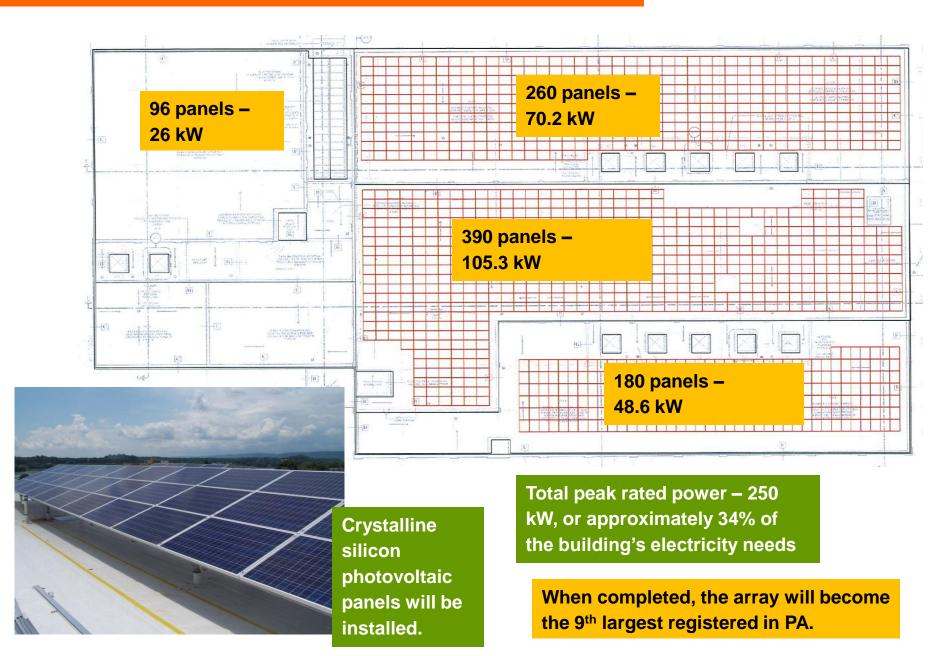
All new buildings in Midtown Harrisburg will incorporate the latest in sustainable design and alternative energy technology. Innovative financing and public funding techniques will keep alternative energy technology installation affordable and offer significant savings to tenants for the life of the buildings.

The solar array was funded in part by a Pennsylvania Energy Development Authority grant, and will provide approximately 20% of the building's electricity needs



Evergreen Solar 42 kW crystalline silicon solar array, installed on roof of Campus Square Building

### HACC MIDTOWN II BUILDING – ROOFTOP SOLAR ARRAY





	Installed cost of solar (at \$5/W)	\$1,125,000
	State grant (\$1.80/W, 38% tax rate = \$1.12/W net)	(\$252,000)
st	Federal tax credit (30%, or \$1.50/W)	(\$337,500)
Cost	Net construction cost (amount to be financed)	\$535,500

Payback Method

**Net System** 

Financing (6%, 5-year term), annual payment	(\$124,233)
Average annual electricity value over 1 <sup>st</sup> 5 years (at \$.127/kWh in 2010, <mark>10% annual increases</mark> )	\$42,007
Annual SREC value (at \$300/credit, 271 credits/year)	\$81,304

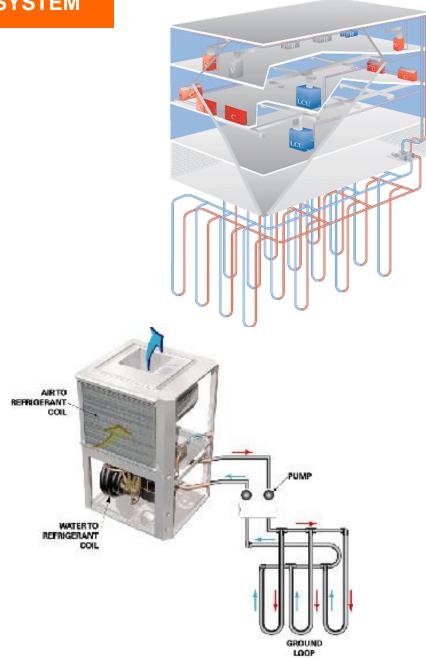
Net annual loss

(\$922)

Risks shown in red

### CAMPUS SQUARE BUILDING GEOTHERMAL SYSTEM

- Closed-loop ground source heat pump system
- Includes 48 geothermal wells (400 feet deep each), all drilled and located within the footprint of the building
- Utilizes the earth as a heat source or sink (transferring heat from inside the building to the earth, and vice versa)
- Eliminates the use of gas, oil, or other fossil fuels to heat and cool the building
- At 2009 energy rates, it decreases the anticipated energy cost of the building from \$1.65/sf to less than \$1.00/sf
- System payback 4.5 years at 2009 energy rates with no subsidies



**Green Building Tenant Advantages:** 

- Lower Cost of Expenses
- Lower Cost of Maintenance
- Happy Employees
- **Green Building Landlord Advantages:** 
  - Marketing Advantage
  - Future Value

GreenWorks Development **GreenWorks Redevelopment Goals:** 

- Urban Revitalization
- Integrated Community Development (Live, work, play)
- •Sustainable Development LEED Certified Buildings and Communities
- Alternative Energy
- Educational Focus

GreenWorks Development

