



# **PENNVEST**

PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY

## **FINANCING CLEAN WATER PROJECTS FOR PENNSYLVANIA**

**Brion Johnson**  
**Deputy Executive Director**

# Demand for Water Infrastructure Financing

- Aging Infrastructure
- Regulatory Requirements
- Overuse

Combined Sewer Overflows



# Demand for Water Infrastructure Financing

## Drinking Water Systems

**3,272 in PA**

**\$11.4 Billion in PA**

**\$334.8 Billion Nationally**

## Wastewater Treatment Systems

**4,432 in PA**

**\$11.9 Billion in PA**

**\$298.1 Billion Nationally**



# Impact of Unmet Demand for Infrastructure Investment



# How Can PENNVEST Help?

## Money for Infrastructure Projects

- **Drinking Water – Public/Private**
- **Wastewater – Public/Private**
- **Storm Water - Public**
- **Non – Point Source**
  - \* **Ag BMPs**
  - \* **Acid Mine – Public/Private**
  - \* **Brownfield – Public/Private**
  - \* **Green Infrastructure – Public/Private**
  - \* **Nutrient Trading – Public/Private**
  - \* **On-lot systems – Principal Residence**

# PENNVEST AT A GLANCE

## □ Projects Approved:

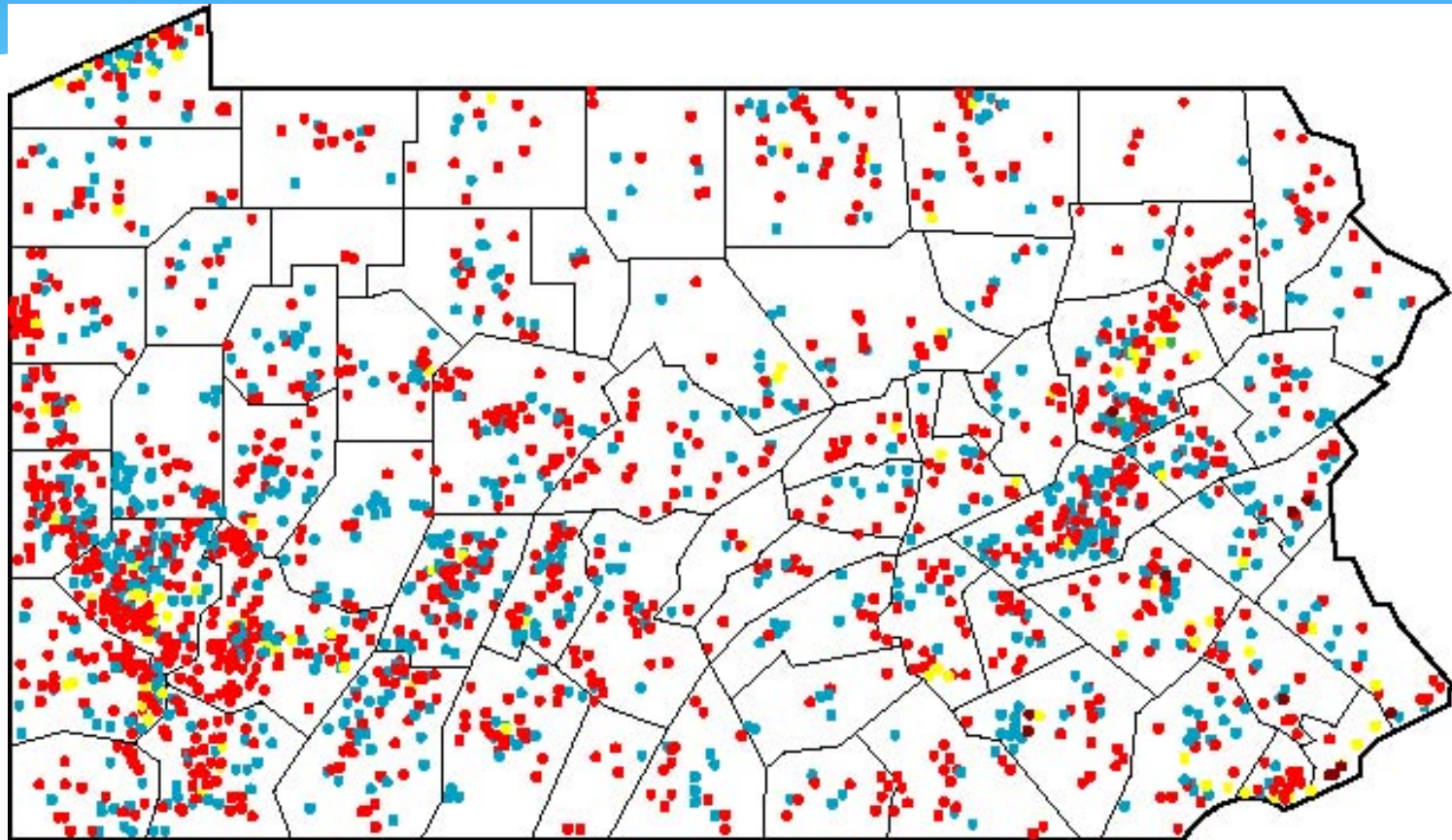
- 3,043
  - ✓ 952 Water
  - ✓ 1,434 Waste Water
  - ✓ 15 Brownfield
  - ✓ 3 Acid Mine Drainage
  - ✓ 114 Storm Water
  - ✓ 454 On-Lot
  - ✓ 71 Non Point Source

## □ Total Funding to Date:

- \$6.7 Billion



# Location of Approved Projects



● Water Projects    ● Wastewater Projects    ● Brownfields Projects    ● Stormwater Projects

# Drinking Water Projects

- Storage Tanks
- Treatment Plants
- Wells
- Distribution Lines
- Dams
- Capital Contributions
- Acquisitions





# Wastewater Projects

- Treatment Plants
- Collection Lines
- Pump Stations
- Capital Contributions
- Acquisitions



# NPS and Storm Water Projects

- Transport
- Storage
- Infiltration
- Urban Run Off
  - DEP Best Practices Manual
- AMD & Brownfields
- Ag BMPs
- Other Techniques



# Nutrient Trading

- ❑ **Nitrogen and Phosphorus Credits**
  - Chesapeake Bay Only
  - Determined by DEP based upon water quality impacts
- ❑ **Auctions Conducted by PENNVEST**
  - Value determined by auction process
- ❑ **PENNVEST Provides security to both buyer and seller**

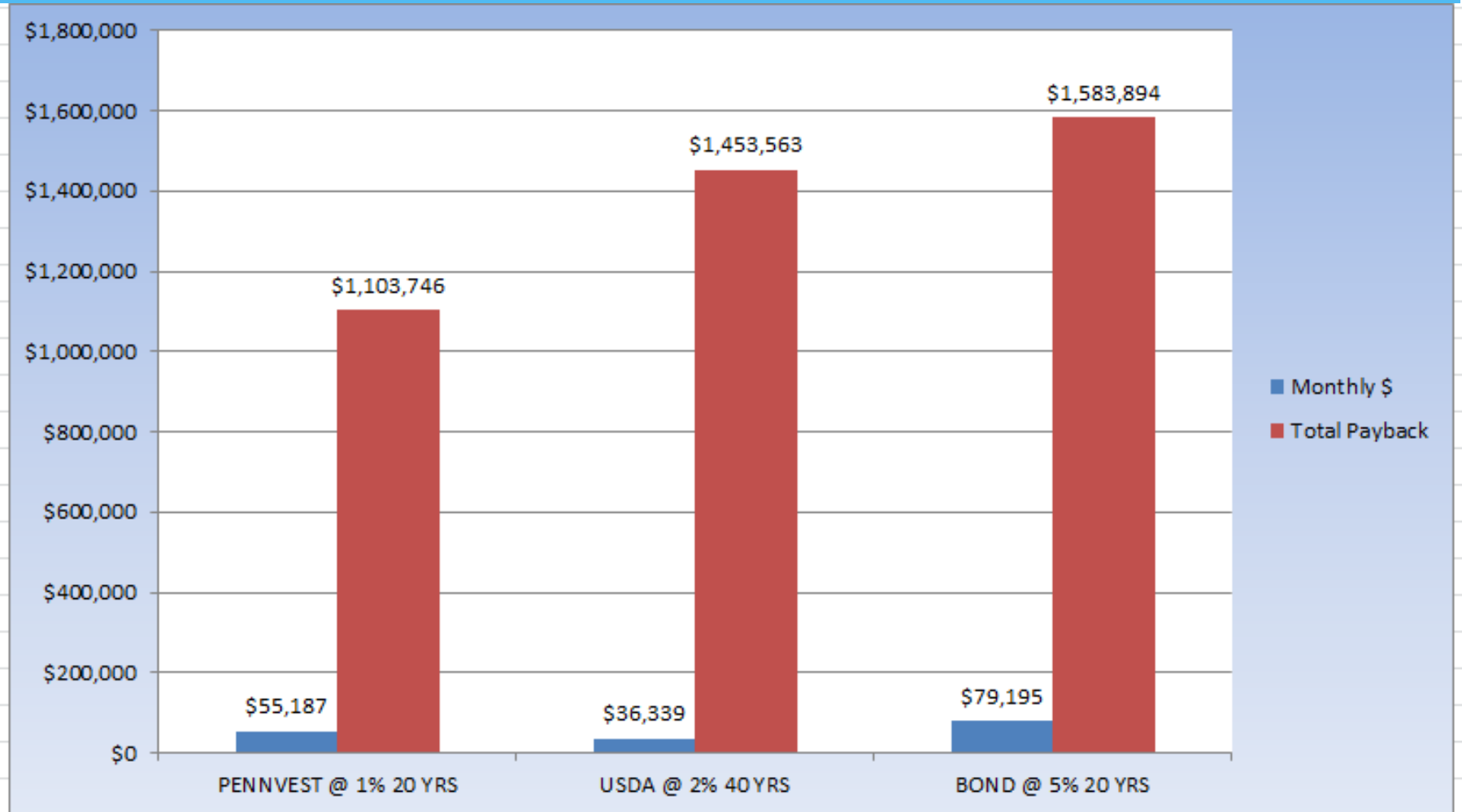
Robert Boos  
717-418-6546  
[rboos@pa.gov](mailto:rboos@pa.gov)

# How Much Money?

## ☐ **\$300 Million Annually**

- State General Obligation Bonds
- PENNVEST Revenue Bonds
- Clean Water State Revolving Fund
- Drinking Water State Revolving Fund
- Loan Repayments/Interest Earnings

# Payback of \$1 Million





# Project Review/Priority

- \* **DEP**

- \* **Public Health, Safety, Environment, Compliance, Adequacy & Efficiency**

- \* **DCED**

- \* **Economic Development, Distressed Communities**

- \* **PENNVEST**

- \* **Land Use, Infill, Financial Capability, Funding Offer and Collateral**

# “Green” Projects

## Examples of eligible green infrastructure

- Installation of porous pavement, green roofs and other approaches to managing wet weather run-off
- Street tree and urban forestry programs
- Installation of riparian buffers and wetlands
- Downspout disconnection programs to eliminate storm water from combined sewer systems
- Installation of water meters
- Purchase of leak detection equipment
- Energy efficiency – retrofits and upgrades to pumps and treatment processes
- Installation of water efficient fixtures, fittings, equipment and appliances

# Ridgeway Borough

Made a simple process change  
to WW facility cost =

**\$500**

Reaping annual energy and  
chemical savings =

**\$30,000**

\* An unexpected [but welcome] outcome is improved water  
quality effluent

# Statutory/Regulatory

- ❑ **Funding Cap - \$11M for one municipality;  
\$20M for two or more**
- ❑ **Interest Rates – 1%-3.184%**
- ❑ **Grants - tied to affordability considerations**
- ❑ **Letter of No Prejudice**
- ❑ **Loan Terms - 20 Years, 30 Years under certain  
circumstances**

# Planning Consultation

**All Projects must participate in a planning consultation meeting with PENNVEST and DEP staff prior to submitting a funding request.**





# PENNVEST CONTACTS

- **PV Region 1** – Dave Henning  
717-783- 4490; [dahenning@pa.gov](mailto:dahenning@pa.gov)  
Northwest and North Central  
Pennsylvania



- **PV Region 2** – Larry Gasparato  
717-783-6673; [lgasparato@pa.gov](mailto:lgasparato@pa.gov)  
Southwest Pennsylvania



- **PV Region 3** – Tess Schlupp  
717-783-8618; [tschlupp@pa.gov](mailto:tschlupp@pa.gov)  
South Central and Southeastern  
Pennsylvania



- **PV Region 4** – Mike Gallagher  
717-783-4488; [mgallagher@pa.gov](mailto:mgallagher@pa.gov)  
Northeastern Pennsylvania



# PENNVEST MEETING SCHEDULE

## **PENNVEST Board Meetings:**

**The Board meets quarterly with application submittals due 8 weeks in advance.**

**The next scheduled meeting is April 25<sup>th</sup>. At that meeting the Board will set the meeting schedule for the following fiscal year.**

**The next application submittal date is May 16<sup>th</sup>.**

**Anticipated Board meeting dates in July, October in 2012 and January, April 2013.**

# PENNVEST Website

<http://www.pennvest.state.pa.us>

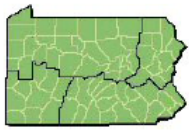
PENNVEST

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PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY


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About Us  
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**COUNTY MAP SEARCH**



**QUICK LINKS**



**SPOTLIGHT**  
**The Hazleton City Authority Project**



The Hazleton City Authority is using a \$12.5 million grant from Pennsylvania's ARRA Drinking Water State Revolving Fund to replace more than three miles of drinking water distribution mains, upgrade a pump station, replace a water storage tank and rebuild three water filters to reduce water leaks and improve service.


Information about this and other projects is available at Pennsylvania's Recovery website at: [www.recovery.pa.gov](http://www.recovery.pa.gov)

**RECENT NEWS**

**ARRA Requirements**  
09/03/2009 12:16PM EDT  
IMPORTANT - ARRA requires specific actions and documentation.

**Recovery Funds help quadruple investment in critical repairs, upgrades to water systems**  
09/02/2009 3:47PM EDT  
Projects will create 5,600 jobs, boost local economies

**EDWARD G. RENDELL**  
GOVERNOR  
**Joseph M. Manko**  
Chairman  
**Paul K. Marchetti**  
Executive Director



**ONLINE SERVICES**

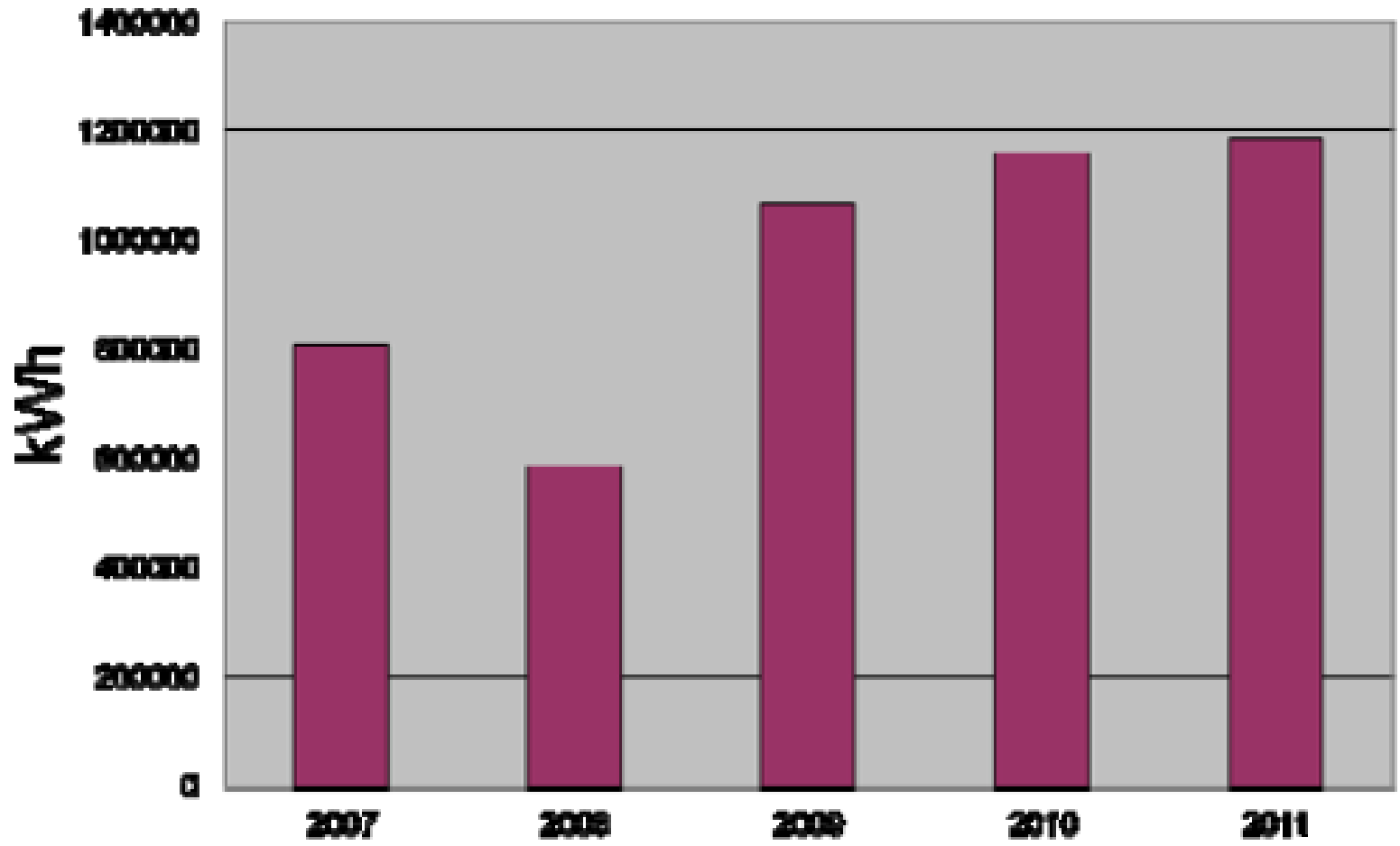
- Project Search
- Online Application
- My Account Login
- Payment Tracking

# Questions?

**Thank You. Please see ask any questions now, see me after the session, or feel free to contact me through e-mail or on the telephone.**

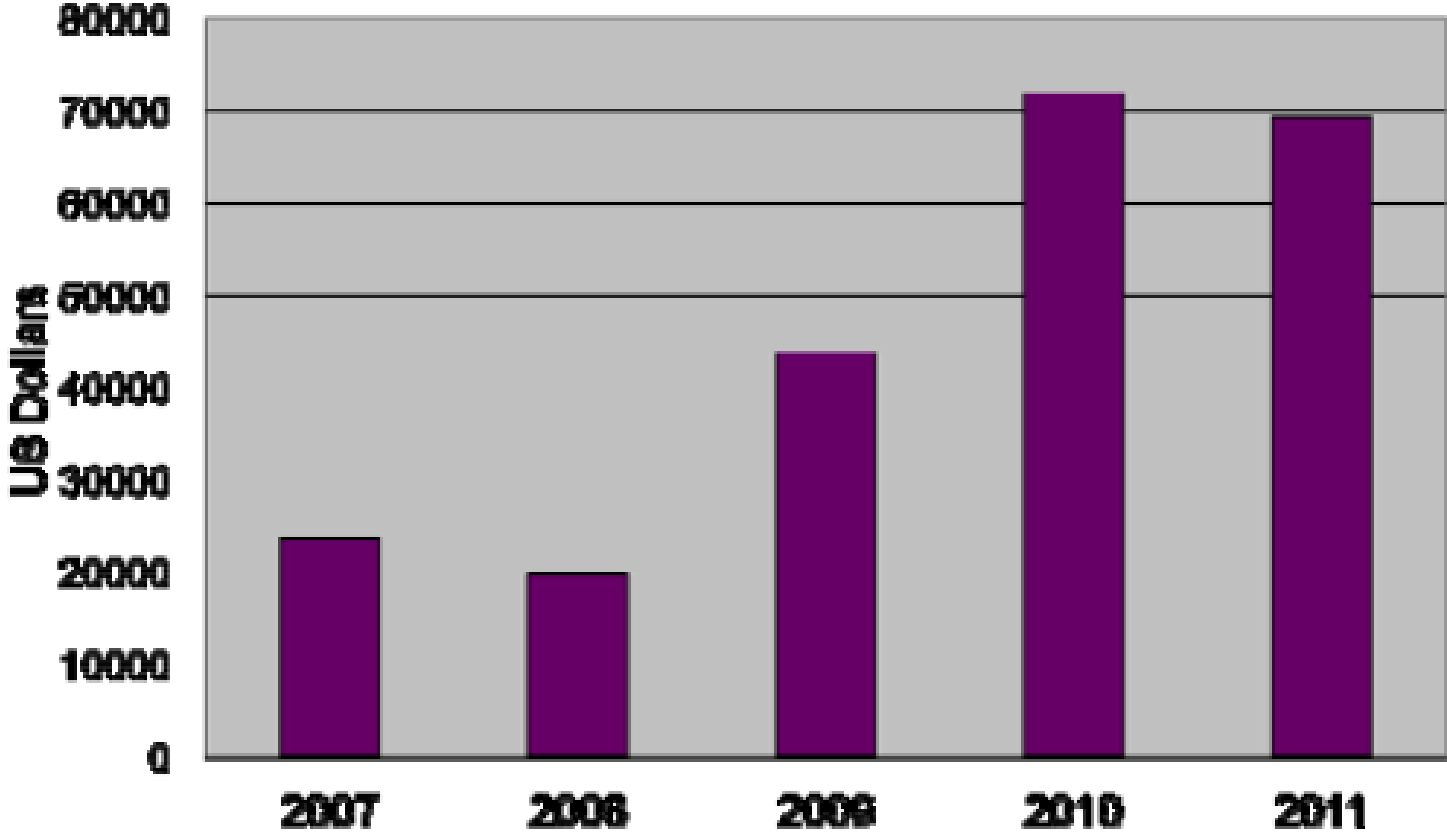
- Toll Free - 1- 877-787-8137
- Internet - [www.pennvest.state.pa.us](http://www.pennvest.state.pa.us)
- Direct line – 717-783-6798
- [bjohnson@pa.gov](mailto:bjohnson@pa.gov)

### kWh Production Five Years of History





# Export Sales to PPL Five Year History



### kWh Sold and Generated 2010 and 2011

