



WORLD  
RESOURCES  
INSTITUTE

# POWER WATCH

Open Data and Tools for Sustainable Power Sector Development

Johannes Friedrich, Aaron Kressig



# CHALLENGE: POWER SECTOR IMPACTS

**41%** of global carbon dioxide emissions

**18%** of freshwater withdrawals

**1.2 billion** people lack access to electricity

Major contributor to **local air pollution**

Lack of data on power plants and their impacts

Background: Air Pollution and Power Plant Location, Source: Yale, EPI

# SOLUTION: GEOLOCATED POWER PLANT DATA

## Conemaugh Generating Station

Location: **New Florence, PA, USA**

Latitude: **40.3864**

Longitude: **-79.0558**

Install Capacity: **1,872MW**

Ownership: **GenOn Energy**

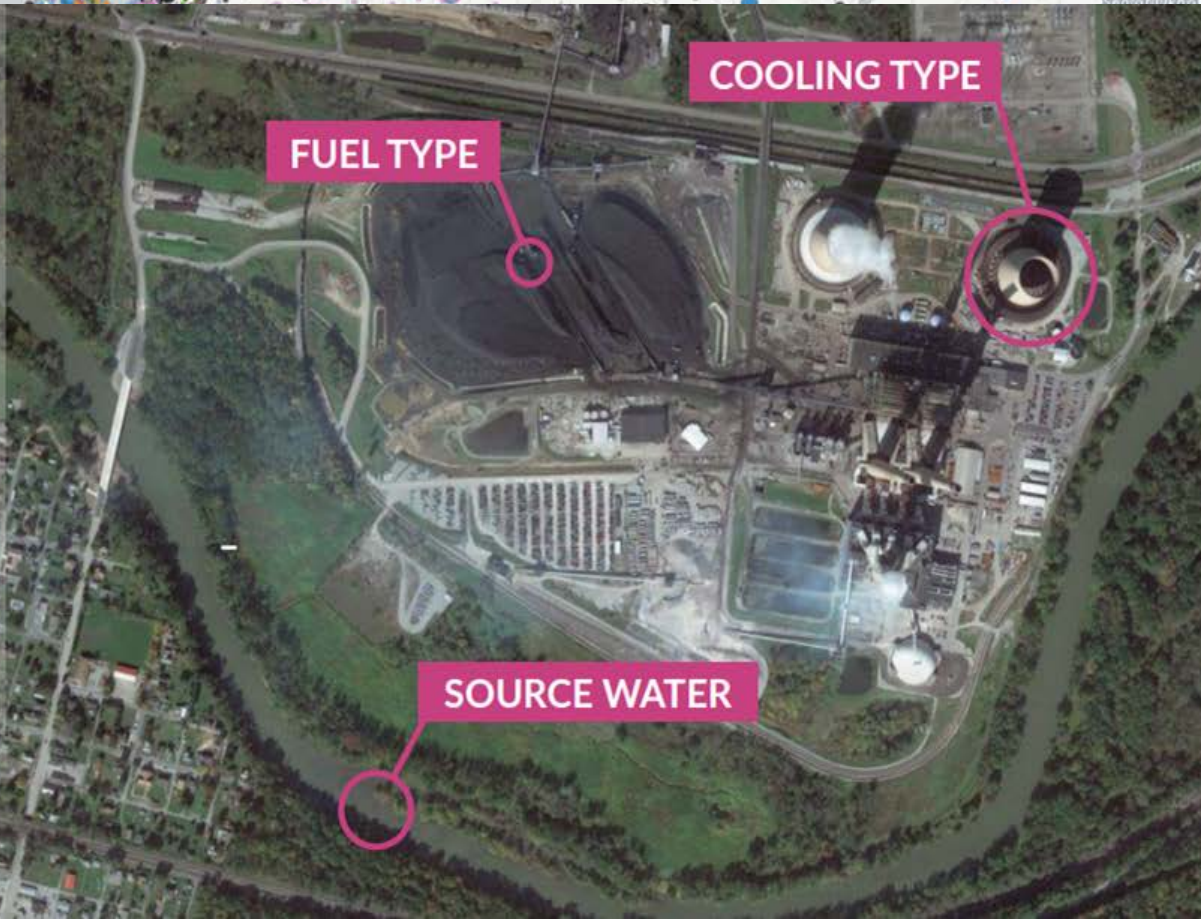
Fuel Type: **Coal**

Cooling Type: **Close Cycle Wet Cooling**

Est. Operation Rate: **90%**

Est. Water Withdrawal: **7.5 MGals/day**

Est. Water Consumption: **3 MGals/day**



# What is Power Watch

**Data:** A global open comprehensive database of power plants and impacts on climate, water and air quality

**Tools:** Apps that help with specific decision making and planning problems

**Partnership:** Bringing the research community together

# The Current Database

## Power Watch will contain

- Over 24,000 plants globally, all types
- 85%+ of global installed capacity
- Mostly nationally reported
- **Technical:** Location, capacity, fuel type, ownership, plant technology, cooling type and cooling source
- **Operational:** Electricity generation by year

# Coordination & Partnerships



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Enipedia



Open Power  
Systems Data

