



## PWGC EXPERTISE

### Energy/Sustainability Solutions

- Geothermal Systems Feasibility Analysis, Design, Permitting and Construction Management
- Carbon Footprint Analysis, Profile & Management
- Power Generation
- Fuel/Alternative Fuels Systems Design, Permitting, Compliance, Construction Management
- Emissions Reduction
- Alternative Fuels Facility Design
- LEED and Green Consulting
- Green Roof/ Solar System Consulting

### Civil/General Engineering

- Site Planning/Design
- Construction Planning, Management, QA/QC
- Facility Design & Condition Assessment
- Specifications, Cost Estimating
- Drainage Planning & Design

### Consulting

- Expert Testimony/Counsel, Regulatory Liaison, Project Inspection/Owners Representation

### Environmental Compliance & Management

- Phase I, Phase II Environmental Site Assessments
- Brownfield Support Services
- Regulatory Compliance Reporting
- Air, Water & Soil Sampling/Monitoring
- Environmental & Health Risk Assessment
- Cost Estimating
- Air Quality & Air Emissions Inventories
- Title V Permitting
- TRI Reporting
- Radiological Emissions
- Contingency Plan Development & Revision
- Facility Plan Preparation: SPCC, SWPPP, FRP

### Wastewater & Water Supply

- Water Supply & Wastewater Design
- Treatment & Distribution Systems Planning & Design
- Groundwater Modeling
- Evaluation, Planning & Technical Assistance
- Conservation Plan Development
- Comprehensive Feasibility Studies

### Remediation/Hydrogeology

- Environmental Audits (Assess Environmental Liability)
- Risk-based Approach
- Remedial Investigation, Action
- Remediation Systems Selection & Design
- Groundwater Contamination
- Contaminant Fate & Transport Computer Modeling
- UST/AST Management



**Strategic Environmental Engineering Solutions**

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## STRATEGIC ENVIRONMENTAL ENGINEERING SOLUTIONS

### Why Consider a Geothermal System?

Geothermal (ground-source) heat pump technology is an established, energy-efficient option for heating and cooling a building's indoor spaces. Compared to conventional HVAC systems, geothermal heat pump systems offer the following benefits:

- Lowest Life-cycle Cost of all HVAC Systems,
- Eliminate Chillers, Cooling Towers, and Furnaces,
- Eliminate On-site Fossil Fuel Use/Reduced Carbon Footprint,
- Improved Indoor Air Quality and Smaller Mechanical Rooms,
- Contribute Points towards LEED Certification, and
- No Outdoor Equipment/Rooftop is Freed Up for Other Uses.

### Applying Knowledge and Insight

A GHP may not be a good fit at every site. There are typically multiple ground coupling options for a particular site, with many things to consider to select the most cost-effective option. Our expertise relative to geothermal systems includes:

- Geologic/Hydrogeologic Conditions Due Diligence,
- Feasibility and Cost Analysis and Filings Support,
- Field-Testing Programs,
- Design and Construction Management, and
- System Start-Up, Operation and Maintenance.

We have provided these services for a wide range of commercial, institutional, educational and high-end residential clients. PWGC is at the cutting edge of the growing geothermal industry, and can lead you through each step towards evaluating, choosing and implementing the technology at your project site.



## CONTACT US

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