



NY - G E O 2 0 2 6

March 24-25, 2026 | Brooklyn, NY



The Urban Driller

Moderator: Brock Yordy / *Geothermal Drillers Association*

Panel: Kim Ojanne / *Rototec USA*

Dan Sergison / *Salas O'Brien*

Scott Adelsbach / *Geothermal Drilling Solutions*

Soren Soe / *CoilDrill*

Garrett Carrino / *American Well*

Urban Drilling Boreholes & Borefields

Brock Yordy – Global Drilling & Construction SME

Yordy@developedwellgroup.com





Selection Process

1. Location
2. Project Feasibility, Budget, & Stakes
3. State & Local Regulations
4. Test Hole, Logs, & Data
5. Bore Field Size & Hole Specifications
6. Construction Timeline
7. Contractor Qualifications & Capabilities

Anyone can drill a hole?



Urban Drilling Selection Process

- Equipment
 - Availability
 - Tooling
 - Drilling Method
- Compatibility Location
 - Geology
 - Site Footprint
 - Environmental Demands
 - Site Management
- Project Timeline
- Borehole Design
 - Diameter
 - Loop Type
 - Grout
- Project Restoration, Clean up and Disposal
- Workforce
 - License Qualifications, State Drilling License, IGSHPA
 - Safety Certifications
 - Insurance Standards
 - Quality Installations





The Reality of Success

ROTOTEC

CLEVER GEOENERGY PIONEER

Urban drilling

Kim Ojanne

March 25, 2026



Christ Church Bronxville, NY: Turning Urban Constraints into Engineered Solutions

Problem → Why Geothermal

Aging and failing systems

- End-of-life heating system
- No cooling in key spaces

Long-term solution

- Designed for 100+ years
- Stable conditions for building and organ

Lower costs and emissions

- Replace fossil fuels
- Reduce operating costs

Constraint → Engineering Solution

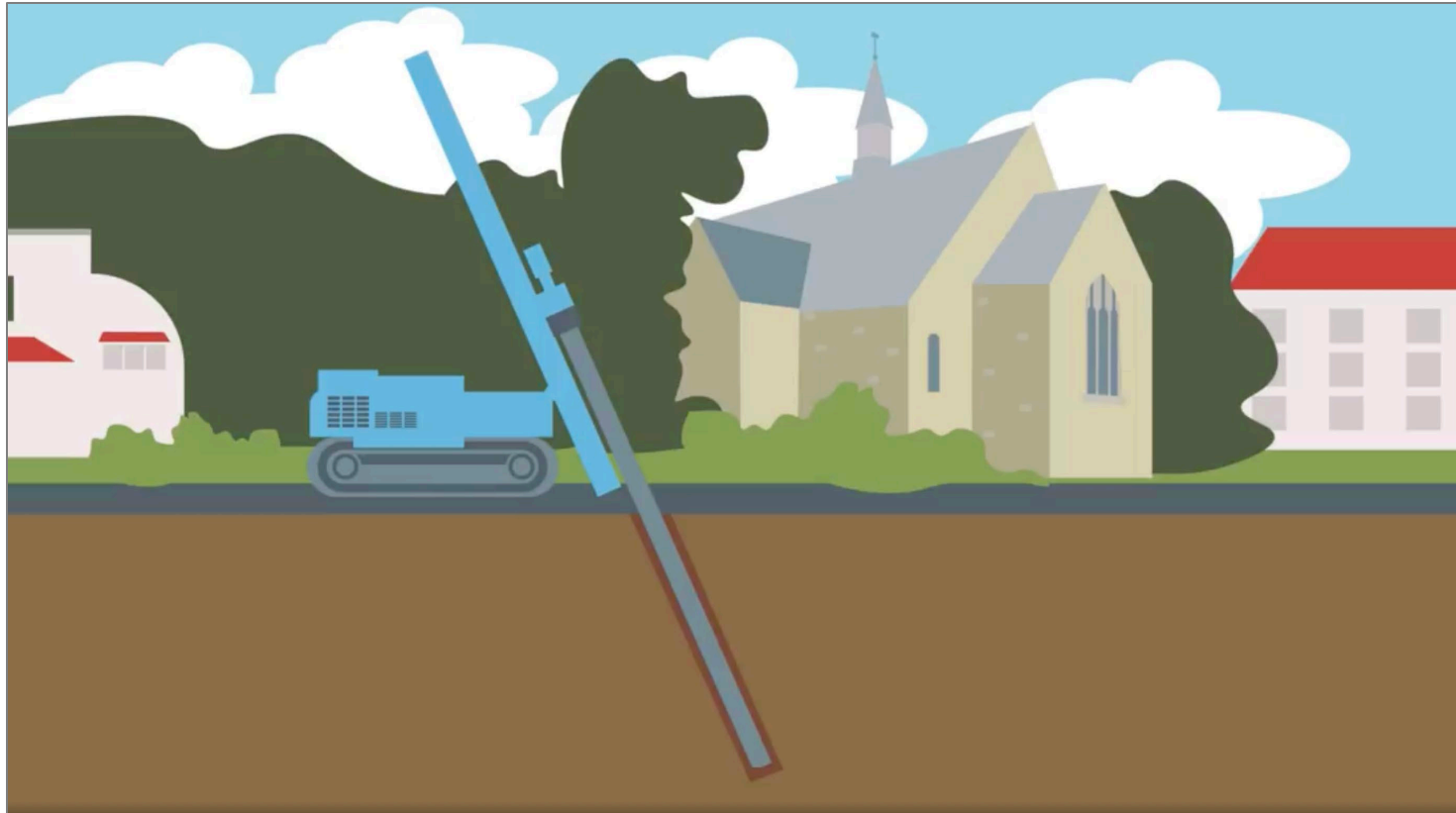
Limited space for borefield

- Dense urban site
- No room for traditional layout

Solution

- 14 boreholes >1000 ft
- More capacity in smaller footprint
- Higher temperatures from deeper rock
- Angled drilling to access more bedrock volume

Angled and deep boreholes – clever ways to fit geothermal boreholes on dense sites



Angled boreholes

- Make it possible to use the subsurface area under buildings and under other obstacles on the site for energy extraction
- Reduce the amount of trenching and horizontal piping
- Are routinely drilled with Rototec's standard equipment

Deep boreholes

- Are a way to increase the amount of energy that can sustainably be extracted from the site
- Depths of up to 1 500 ft can be drilled with Rototec's standard equipment

Drilling cuttings and water management



Drilling cuttings

- Drilling cuttings are collected cleanly in a dumpster and transported to an appropriate facility
- Sediments are allowed to settle in the dumpster before water is pumped out e.g. to a weir tank

Further water treatment

- For further purification of the drilling water, Rototec offers a patented water treatment system: Rotocont
- Water is slowly filtered through several purifying compartments and finally into a weir tank



NY-GEO BROOKLYN 2026

The Urban Driller

DAN SERGISON, PE, CGI, CGD
GEOTHERMAL DISCIPLINE MANAGER | AVP



We are an engineering and technical services firm focused on advancing the human experience through the built environment.

105+

Offices throughout
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revenue

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#3 ²⁰²⁵
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#5 ²⁰²⁵
MEP
GIANTS

13x ²⁰²⁵
INC. 5000
HONOREE

#31 ²⁰²⁵
ENR
TOP 500

#3 ²⁰²⁵
ZWEIG
HOT FIRMS

Recent Urban Geothermal Projects

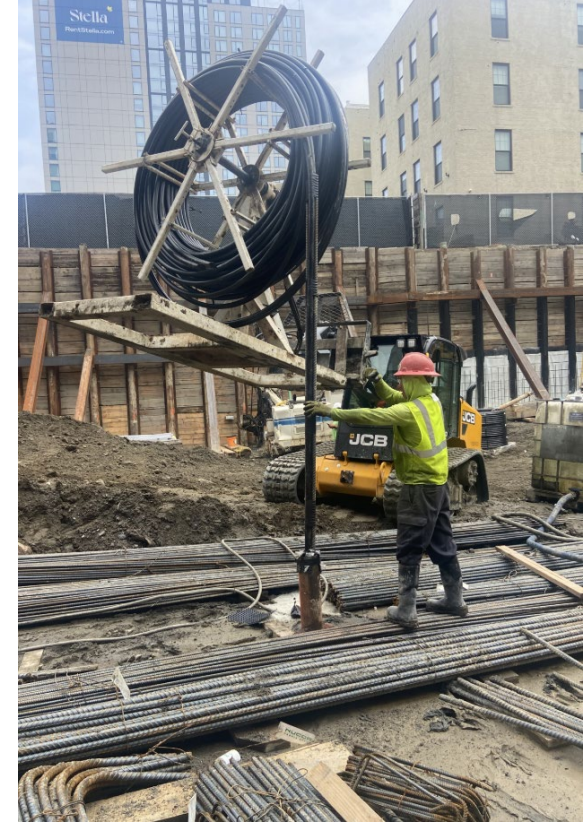
New York City

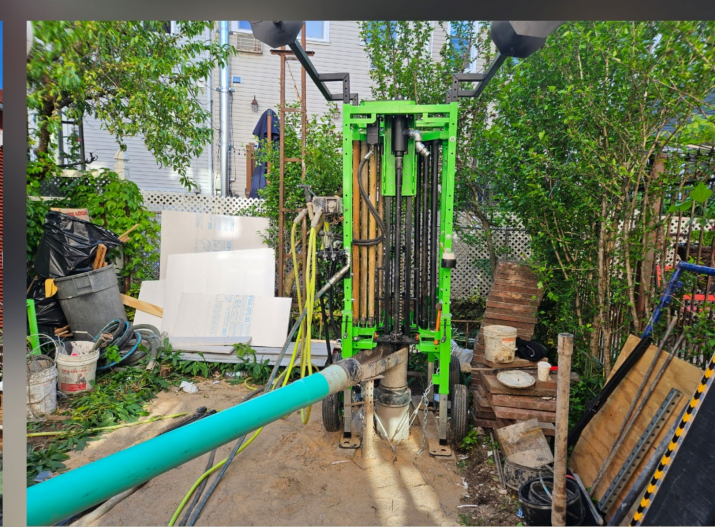
- ▲ 247 North Avenue, New Rochelle (LCOR)
- ▲ Alafia Development, Brooklyn (L+M Development)
- ▲ Soundview Recreation Center, Bronx (NYC Parks/DDC)
- ▲ Rosedale Library, Queens (NYC DDC)

New Jersey

- ▲ Hoboken Connect (LCOR)
- ▲ 107 Morgan Street Jersey City (LCOR)







Scott Adelsbach







GEOHERMAL DRILLING SOLUTIONS



RIG-IN-A-BOX™
is an all electric modular geothermal drill rig system for installing vertical Loop Fields inside and outside residential and commercial buildings.

geothermaldrillingsolutions.com





CoilRig™ Australia

Continuous Coiled Tubing Drilling

CTEnergy500 Drilling to 1000ft (~300m)

Drilling for “Low Temperature Geothermal” Redefined





CoilRig™ Drilling Process





CoilRig™ Drilling Process





CoilRig™ Drilling Process







Get in Touch

Thanks for listening. If you have any further queries or would like more information, scan the code below:



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MARCUS GARVEY, BROOKLYN

85 Holes to 450 ft.



MARCUS GARVEY, BROOKLYN



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Final completion in
building manifold



SHEEPSHEAD BAY, BROOKLYN



VIDEO





516 BERGEN STREET





516 BERGEN ST.


- Test hole: 600 ft.
- Bedrock: 260 ft.
- Pdc bit

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THANK YOU

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