

Digging Out of Gas

How a 14-Borehole Geothermal Retrofit Cut Campus Emissions by 63%

An Erda Energy Case Study at Oxford Brookes University

Prepared for:
IL Green Alliance Getting to Zero Tech Forum

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Oxford Brookes University Case Study

Why Erda?

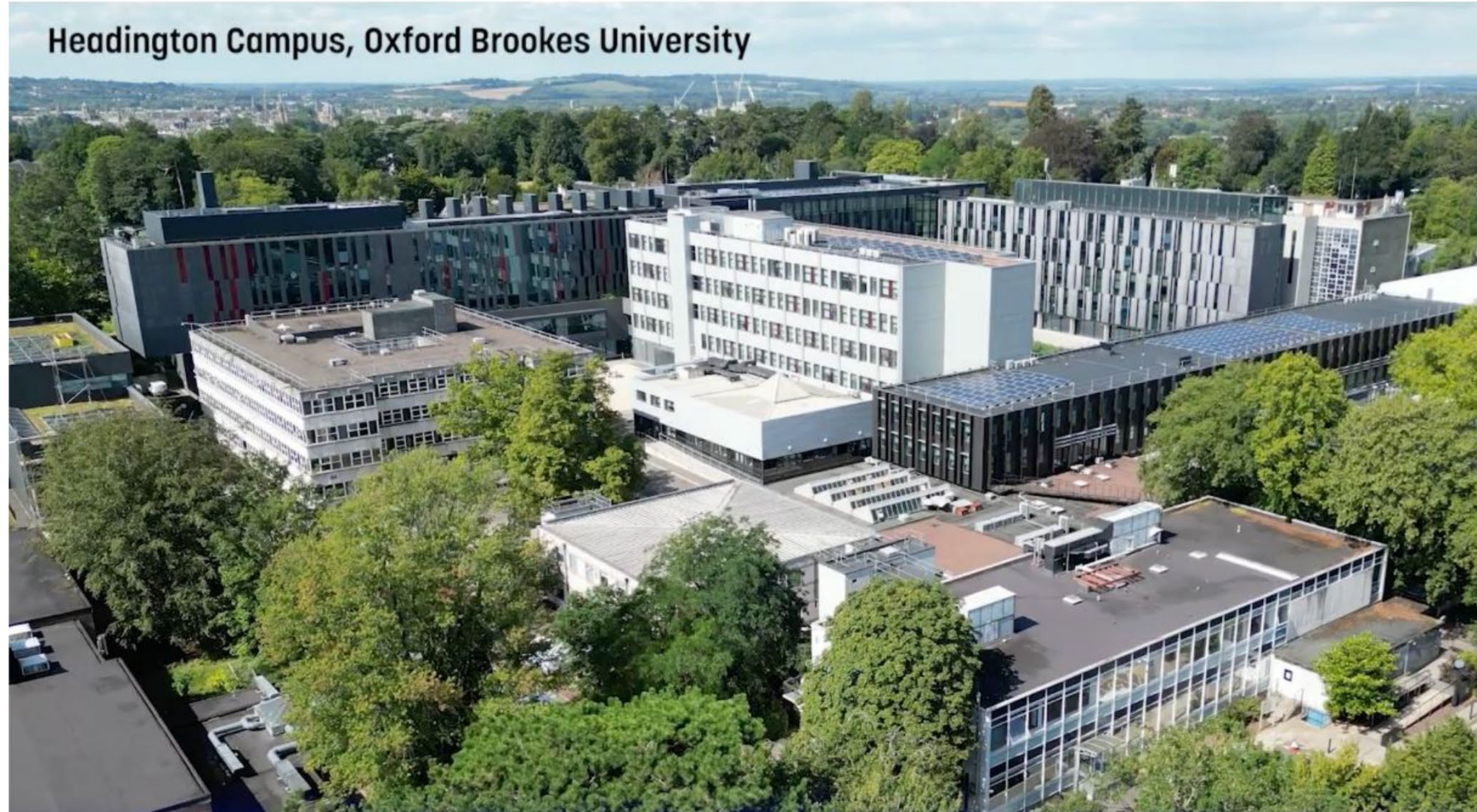
- ✓ Fewer boreholes and less surface space
- ✓ Retrofit ready
- ✓ Advanced coaxial heat exchangers
- ✓ Flexible financing models reducing upfront risk
- ✓ Continuous monitoring with >99% uptime

Challenge

- Dense urban campus
- Existing gas infrastructure
- Climate and decarbonization goal urgency
- Limited space for conventional geothermal

Solution

- Retrofit existing heating infrastructure
- 14 inclined Erda | deep boreholes
- 2,150 sq ft footprint
- Phase I: Completed in 22 weeks
- Phase II: Now being operated by OBU
- Phase III: Coming soon!



OXFORD
BROOKES
UNIVERSITY



Results & Relevance for Illinois

As Illinois advances toward a low-carbon future, projects like Oxford Brookes show what's possible when space, infrastructure, and budget constraints no longer limit the path to decarbonization.

53%

Reduction in heating gas use

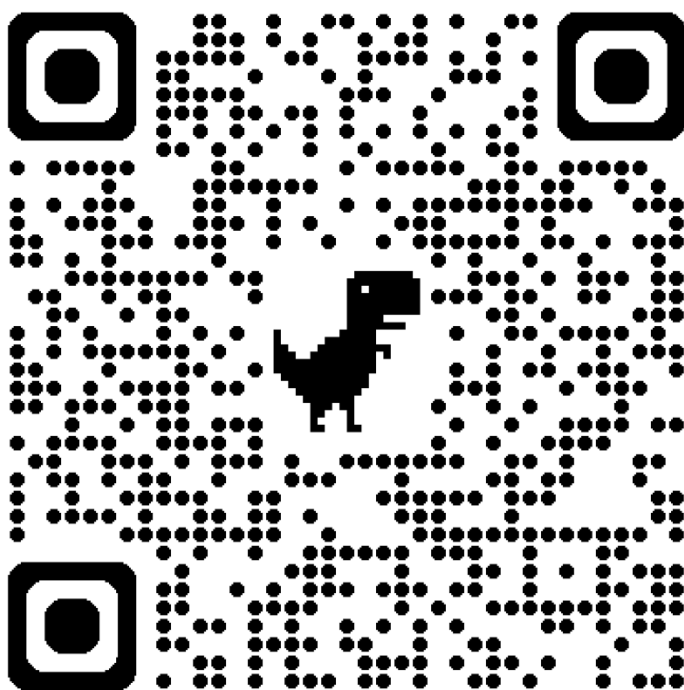
63%

Reduction in Scope 1 & 2 emissions

16-23%

Lower projected operating costs

Learn More & Get In Touch



[Next: Oxford Brookes Video](#)

Solutions for Any Sector



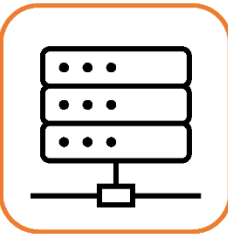
Education



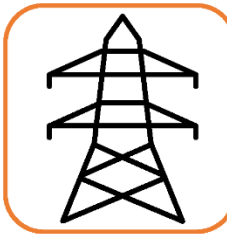
Food Retail &
Supermarkets



Healthcare



Data
Centers



Utilities



Hotel &
Leisure

