



A Decarbonization Solution for Buildings

Yaning Zhang
Geoenery Solutions Consultant

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A Decarbonization Solution for Buildings



Why?

Building heating and cooling is one of the **largest contributors to GHG emissions** worldwide.

What?

A **sustainable alternative** to traditional heating and cooling.

How?

Leveraging our **technology and expertise** to ensure your comfort with **geoenergy** right under our feet!

Geothermal Heating & Cooling Benefits

Comfort



Aesthetic or invisible

Effective

Quiet

Controllable

Resilient



Reliable

Sheltered from natural elements

*Better together: Geothermal + ...
(Complementary to intermittent
renewables & other heat sources)*

Scalable



Single building to communities

Local & Available

Start small → phased planning

CO₂ Reduction



Sustainable

No heat island effect

SLB NewEnergy

World's **leading technology provider** for
energy industry



3/1/2023



Reservoir
Characterization
Drilling
Production
Processing



90,000+
Employees



120+
Countries



\$26B+
Revenue



A Scalable Turnkey Solution for Heating & Cooling



At Building Scale

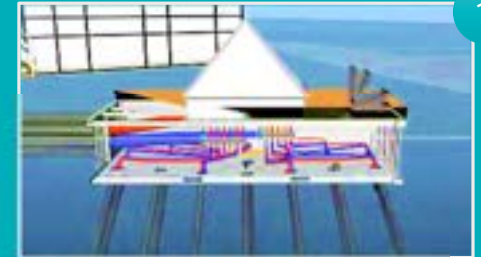


At Community Scale



New or Renovation

Zero Upfront Cost



Underground Heat Exchanger



Connected Tech Room



Intelligent Performance Management

Benefits Beyond Comfort



SUSTAINABLE

HEATING

- 90% CO₂

COOLING

No contribution to
heat island



COST-EFFECTIVE

INVESTMENT

Energy Star

ENERGY

- 60%

OPEX

- 40%



SIMPLE

FOOTPRINT

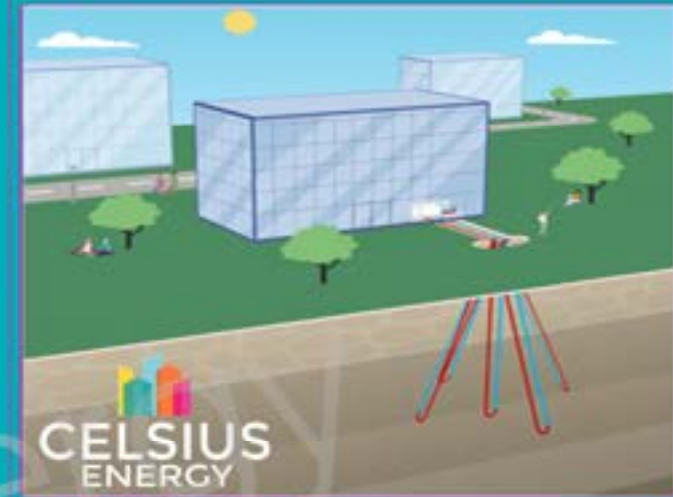
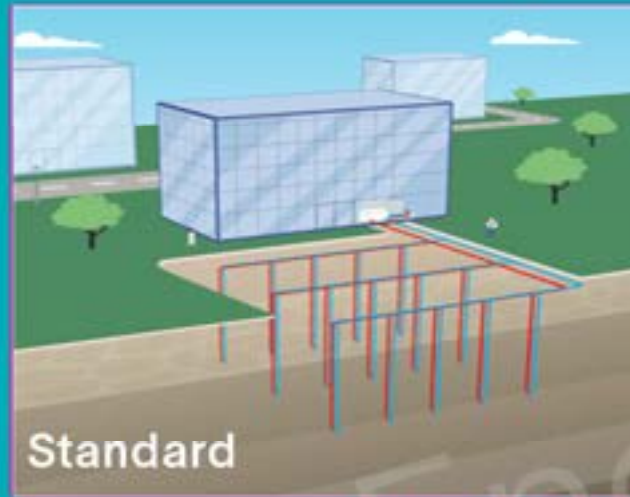
200 ft²

PERFORMANCE

Controlled

Optimized Borehole Heat Exchanger

- 30% less wells
- 90% less site impact
- 70% less horizontal piping
- Preservation of real estate
- Retrofit flexibility - even in
dense areas
- COST EFFICIENCY!



Optimized System Design

Ground characterization

- Optimize bore depth

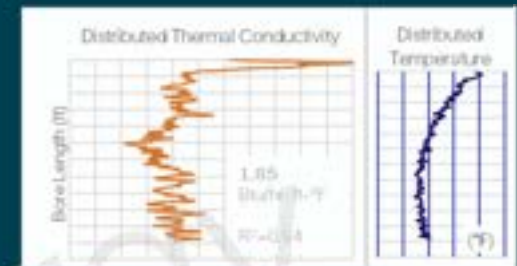
Pioneering digital platform

- Digital Twin
- Monitor, control, optimize

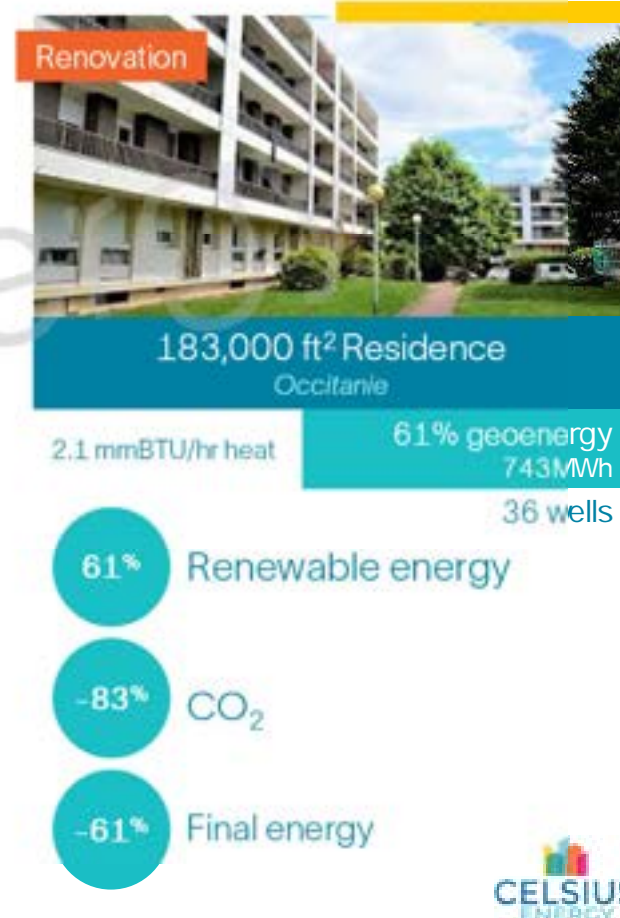
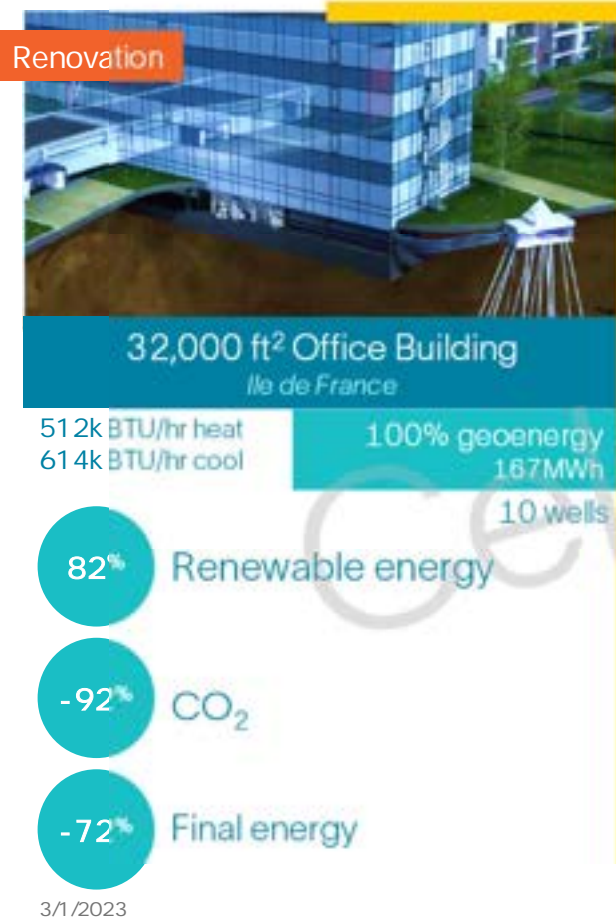
Turnkey solution

- Ground + Building + Digital
- Eliminate "over-build"
- Single point accountability

Standard



Sample Completed Projects



Geoenenergy is Accessible

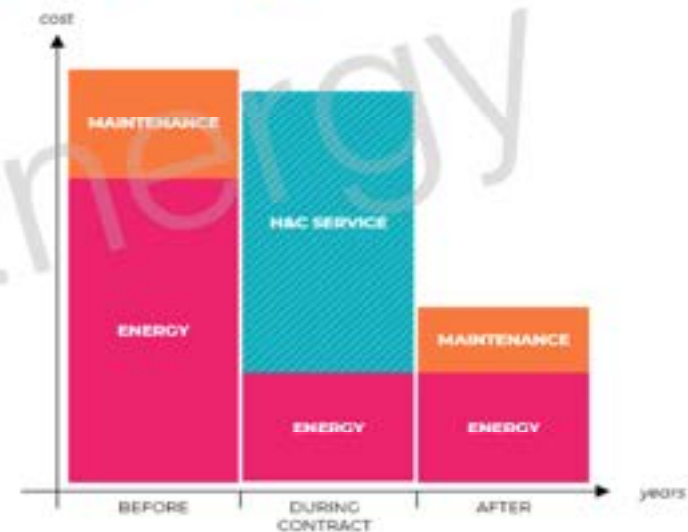
Inflation Reduction Act (IRA)

- 30% tax credit through 2032
- Commercial Sector:
 - +10% for using "domestic content"
 - "Direct Payment" for non-taxable entities
 - Can be combined with solar and other clean energy tax credits
- Residential Extended Tax Credits:
 - 30% through 2032; 26% through 2033, 22% through 2034

State & Local Incentives

- Efficiency Vermont: up to \$2,100/ton of heating capacity
- Clean Energy Development Fund
 - Focus on small businesses, farms, and publicly owned and leased buildings

(Celsius) Energy As A Service Model



Financing Available

We finance, co-develop and structure the project

Energy, CO₂ and building OPEX reduction with no upfront cost



What's your plan?

Reach Vermont's *Climate Action Plan* targets by 2030!



3/1/2023

Helpful Resources:

Links:

- [Celsius Energy Solution](#)
- [DOE: Geothermal Heating and Cooling](#)
- [Inflation Reduction Act Guidebook](#)
- [Efficiency Vermont](#)
- [Clean Energy Development Fund](#)
- [Small Business Energy Loan Program](#)
- [Commercial Energy Loan Program](#)

Videos:

- [Completed Project: A geoenenergy solution providing low-carbon heating and cooling for buildings \(3:40 min\)](#)
- [GEOENERGY: the solution to low-carbon buildings \(3:20 min\)](#)
- [6 Reasons to choose Geoenenergy \(1:41 min\)](#)



Powered by the Earth





Does your project meet one of these two criteria?

Area > 10,000 Sq Ft

Or

Heating and/or cooling needs > 300 kBTU/Hr

LET'S LOOK YOUR PROJECT!

Yaning Zhang

Geoenergy Solutions Consultant

(617) 768-2038

YZhang59@celsiusenergy.com

1 Hampshire Street
Cambridge, MA 02139

celsiusenergy.com