

Scaling Efficiently: How We Will Build a Thermal Grid Together

Presented Live at the NY-GEO 2023 Conference Albany, New York on April 27, 2023

Moderator:

Zeyneb Magavi / HEET

Panel:

Will Lange / WaterFurnace

Mark Metzner / CDM Smith

Jack DiEnna / GEO-NII

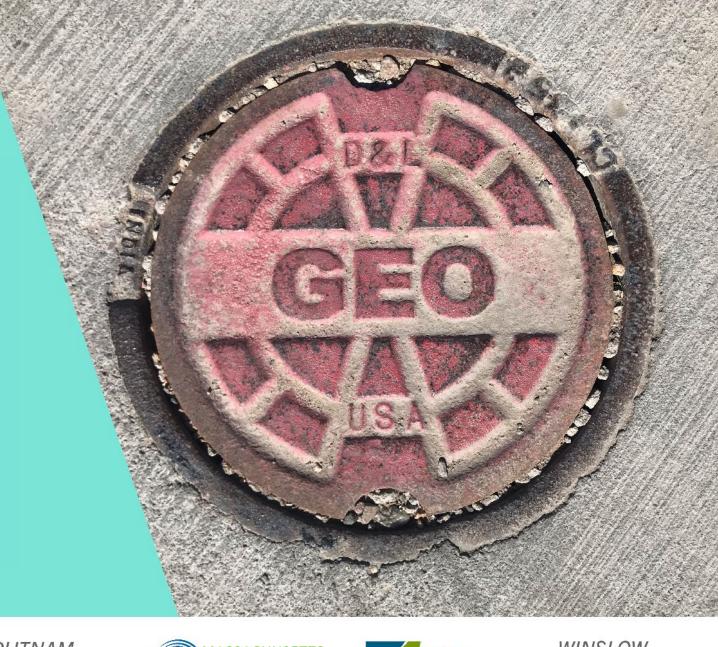
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The Birth of **Thermal Utilities:** Scaling Efficiently: How We Build a Thermal Grid Together 4PM















Will Lange

WaterFurnace

Manufacturer Input



Efficient Scaling of Every Phase

Design:

- Leverage past experiences
- Stick with standards

GHX Construction:

- Employ standard work, but
- Leave room for low cost, creative solutions

Heat Pump Installation:

- Invest early, save later
- Learn from broad stakeholder input early and plan an effective strategy



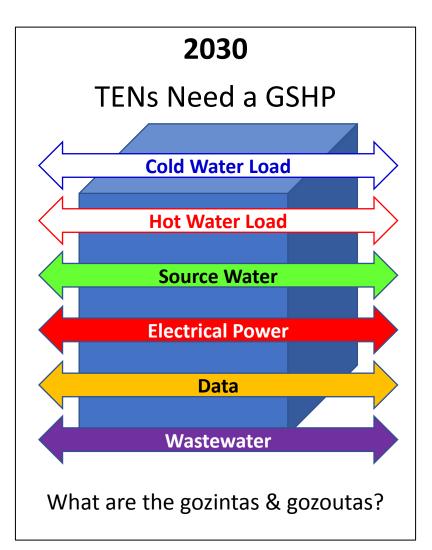


Ductwork or Not?
Forced Air or Hydronic?
Back up heat?
All of the above?

Scalability Presents New Challenges



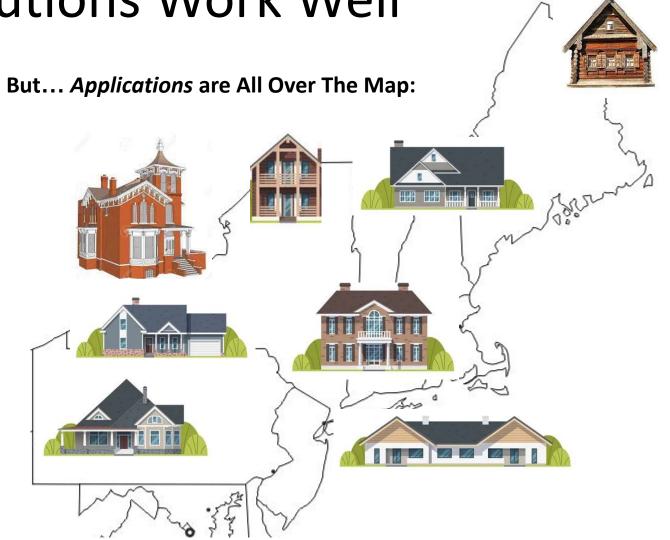




Current Product Solutions Work Well

Ready Now:

- Hydronic
- Forced Air
- Combination
- Compact
- High Efficiency



Heat Pump Fit Drives Cost

Easy Fit = Low Cost

Hard Fit = High Cost



Use What Works

- World class installers are in this room and throughout the region
- World class manufacturers in the US have the products and services
- Everything we are doing has been done except the scaling...

Rapid scaling of any great enterprise requires communication & teamwork



Mark Metzner

CDM Smith

Standardization for Interconnection



Jack Dienna

International Ground Source Heat Pump Association (IGSHPA)

Training



Ed Draves

Shenker Russo & Clark

Labor



Questions?

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Join us! Champagne & signing of the Declaration of Thermalfication!

5:00 PM, Empire Room

