Geo Systems for NYS

NY-Geo Top Job

April 10, 2019
The Goal

• To deliver
  – The most efficient
  – Standardized
  – Simplest
  – Reliable
  – Cost effective
  – Self adaptive

System to provide heating, cooling and 100% of domestic hot water.....without supplement heat
The Goal

At a fixed price
The Goal

Utility Scale
Things needed

- System must adapt to most Occasions
- Variable Speed Technology
  - Compressor
  - Circulation Pump
  - Blower
- Waterfurnace 7-series
- Dedicated hot water heat pump
- Remote Control and monitoring
- Radicality
Specs

• Serves 20,000 – 70,000 BTU/H
• Houses between 1,000 and 4,000 sqf
  – Good insulation
  – Excludes custom houses
• $38,000
GroundUp standardized design
3-5 tons .... plus 2 ton DHW
GroundUp Radiant including High Temp
Most Important Thing Needed

• Change in Mindset
• Received $68,400 grant, plus $25,200 after 40% annual efficiency improvement is demonstrated
• Saves about $20,000 annually
• 4.4% electricity price increase annually
• Saves $1.6 million in electricity over 30 year period
Hot water for $10-15/month
Family of 4
Peak Heating Performance
One last thing....
Financing

• Zero Down
• $128/month
  — over 20 years
Key Data

• GroundUp Members account for
  – 55% of NYSERDA Rebate $ &
  – 41.5% of projects
  – April 2019
Thank you!