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

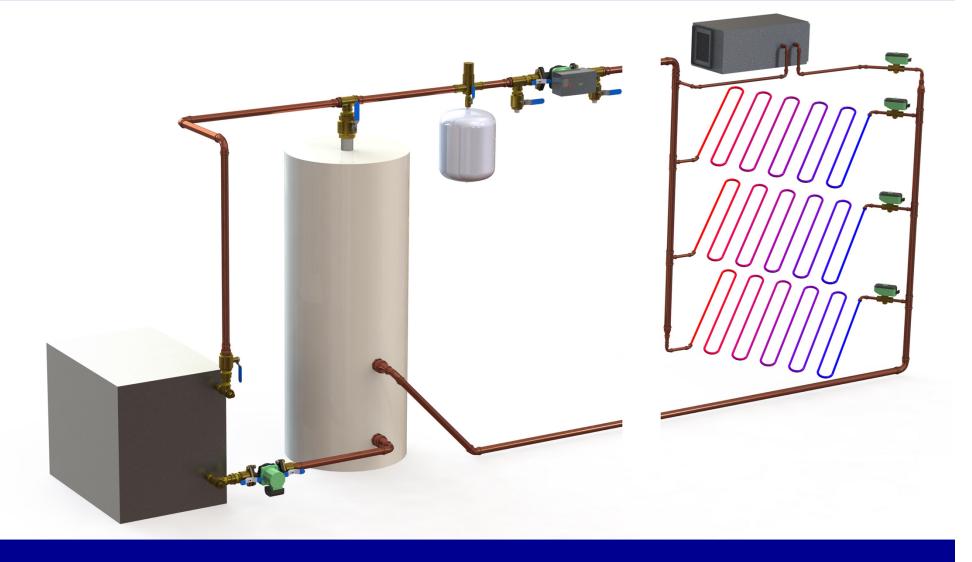


- Serves 20,000 70,000 BTU/H
- Houses between 1,000 and 4,000 sqf
 - Good insulation
 - Excludes custom houses
- \$38,000

GroundUp standardized design 3-5 tons plus 2 ton DHW



GroundUp Radiant including High Temp



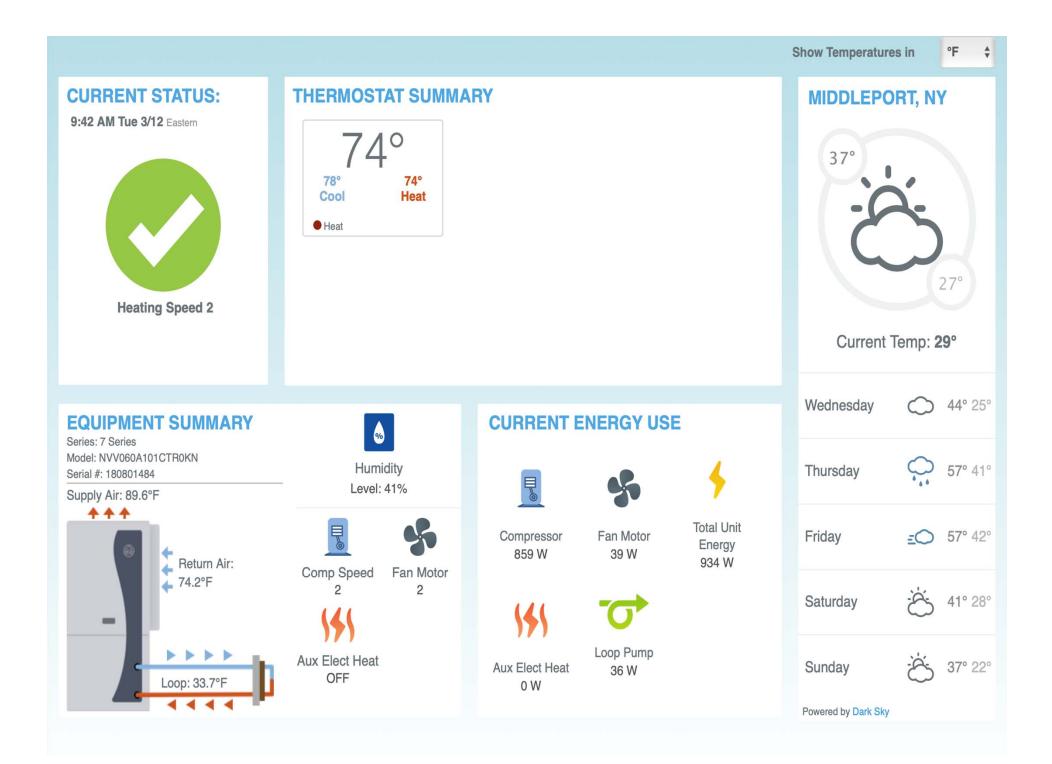
Most Important Thing Needed

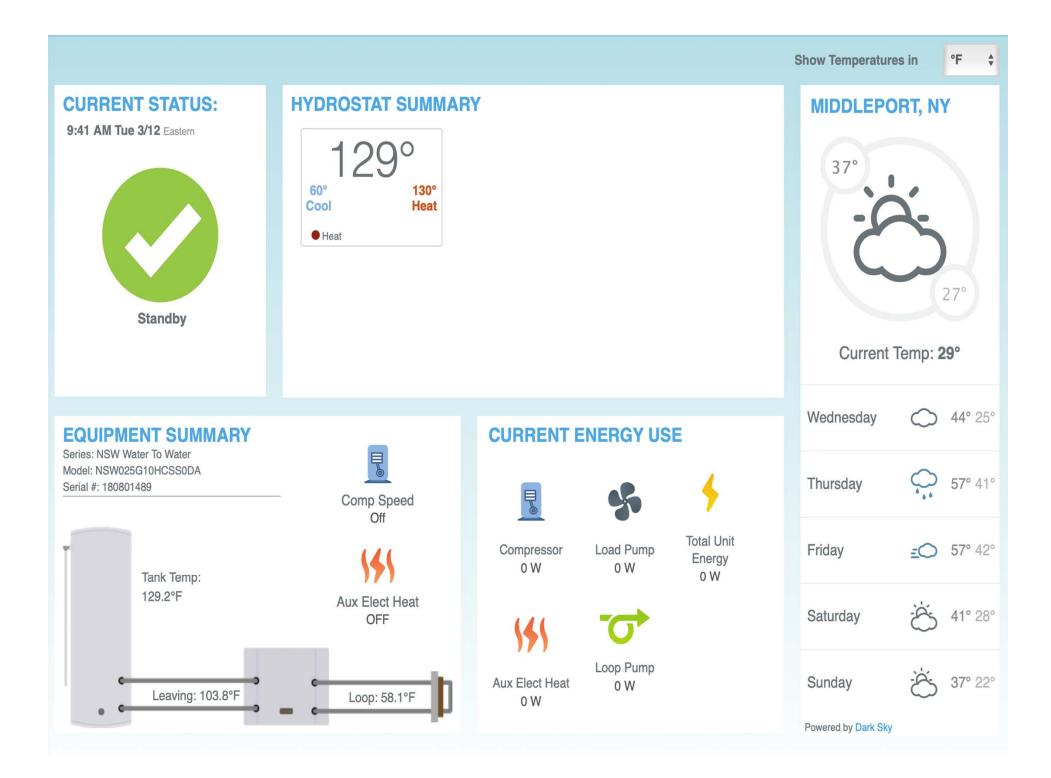
Change in Mindset











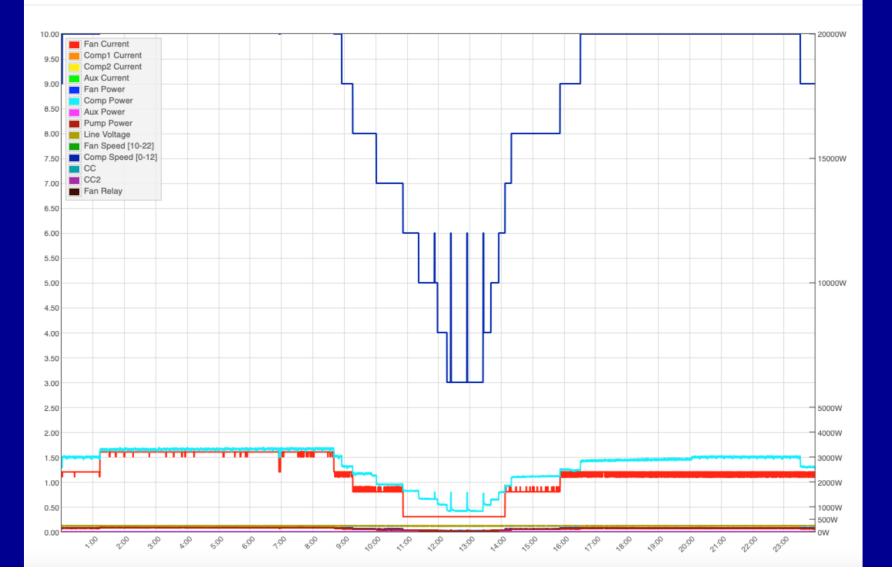
Hot water for \$10-15/month Family of 4

MY ENERGY USE Averages (kWh) Dollars Power Heat Stg 1: Heat Stg 2: Heating (Part) Heating (Full)
 Cooling (Part) C Elec Heat: Cooling (Full) Aux Heat
 Fan 0 ear **Total Heating:** Cool Stg 1: 300 300 Cool Stg 2: **Total Cooling:** 250 Fan Only: 250 Total (Htg, Clg, Fan): 116 200 200 Power [kWh] 150 150 100 100 50 50 0 0 Sep Mar Apr May Jun Jul Aug Oct Nov Dec Jan Feb Mar Avg* Total*

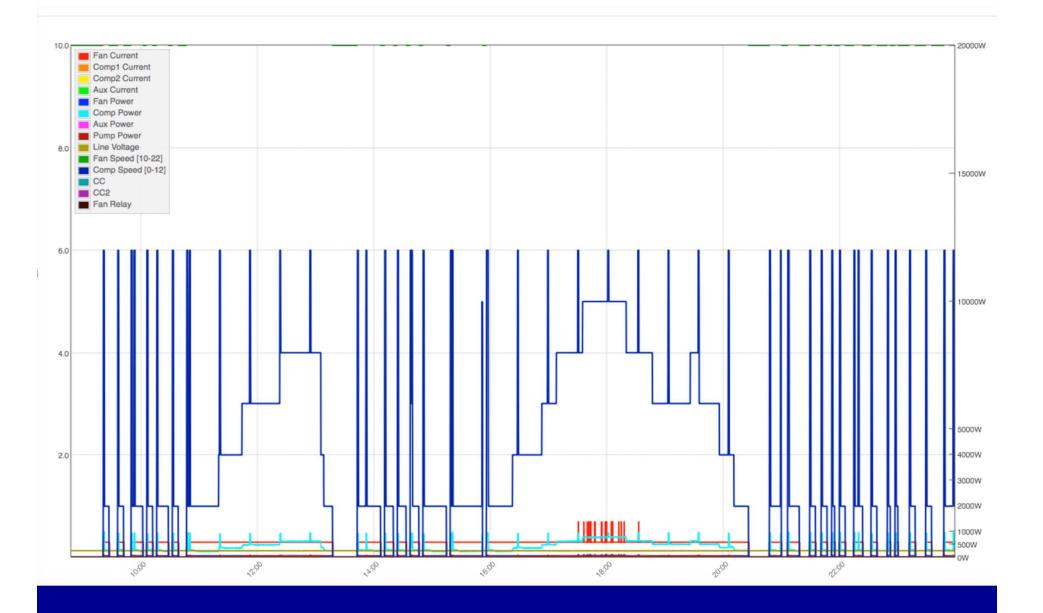
Peak Heating Performance

Energy Monitoring - 01-31-2019

Single-click without selecting to reset zoom



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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 !



