GHP: The Future of HVAC

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The Simple Climate/Environment Solution

By 2050:

1. Decarbonize electricity production (-20% of NYS emissions)
2. Adopt Environmentally Beneficial Electrification (-73% of NYS emissions)
   ○ Adopt Electric Vehicles (-41% of NYS emissions)
   ○ Convert from furnaces to Heat Pumps (-32% of NYS emissions)

This will be:

• The “Second Great Electrification of Our Society”
  ○ Electricity consumption may double
  ○ Emissions will drop dramatically
  ○ Energy Efficiency will increase dramatically
  ○ Energy will be cheaper for all
Scaling the Industry to meet the challenge

GHP industry will scale up from a low volume to a high volume industry:

- Move from “one-building-at-a-time” to retrofitting of communities and clusters in order to gain economies of scale
- Target markets in sequence with easy-to-understand, cost-effective, standard solutions (i.e. $20k flat-price to replace warm-air oil heat)
- Provide third-party ownership (i.e. like solar leases) for ground loops
- Deploy more cost-effective drilling technologies and processes

Very little, if any, need for “invention” and it is all profitable today.

(Note: Dandelion Energy Inc. is working on all these issues.)