



FT Energy Controls, LLC

New HVAC System Provides 36% Energy Savings and 27% Capital Cost Savings

Richard Furman – Co Founder / CEO

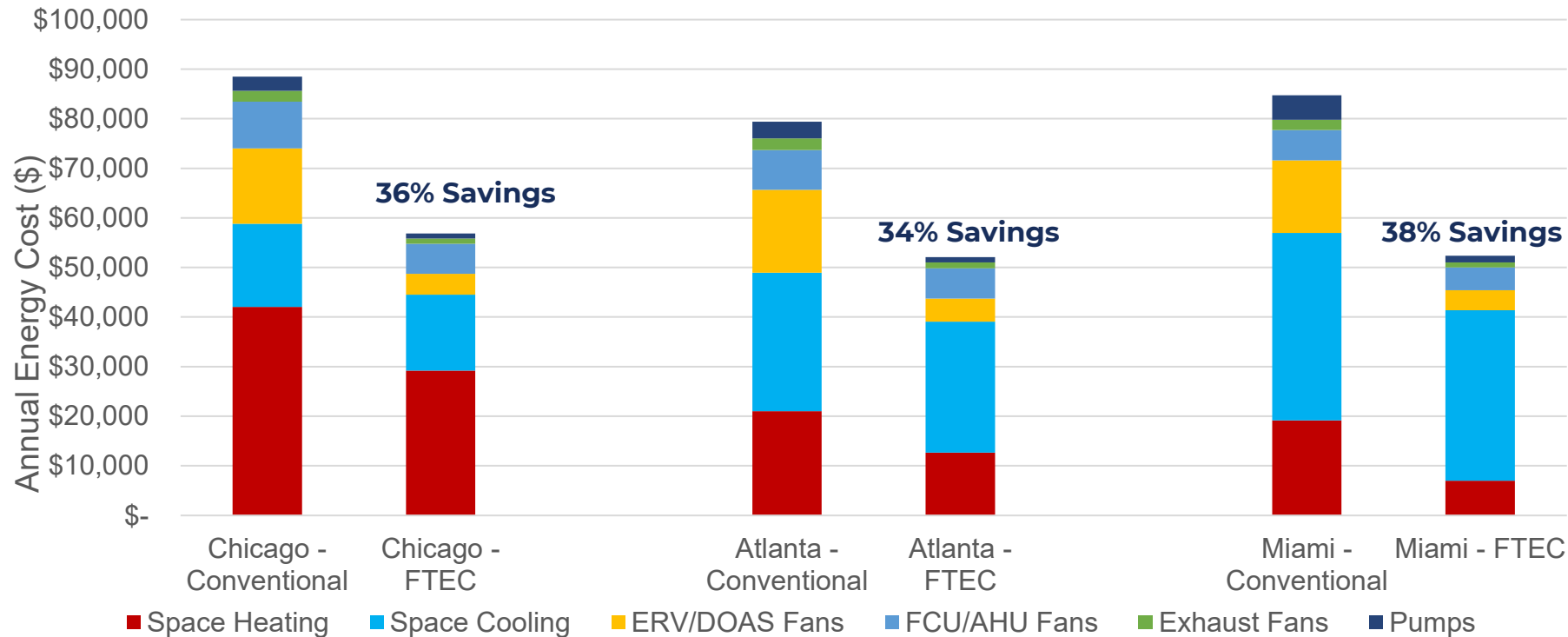
Zachary Thomas – Co Founder / COO

A Solution to the Climate Crisis for Buildings

- A more efficient HVAC System is needed to achieve zero CO₂ emissions with the minimum amount of renewable electricity.
- The solutions to the Climate Crisis will require both speed and scale.
- FT Energy Controls (FTEC) has developed a new HVAC system that makes use of HVAC equipment that is already available at scale and provided by many manufacturers.
- Independent engineering evaluations have determined that FTEC's new HVAC system:
 - **reduces energy costs by 36%,**
 - **reduces CO₂ emissions by 34%, and**
 - **reduces capital costs by 27%.**

Case Study: 200 Room Hotel

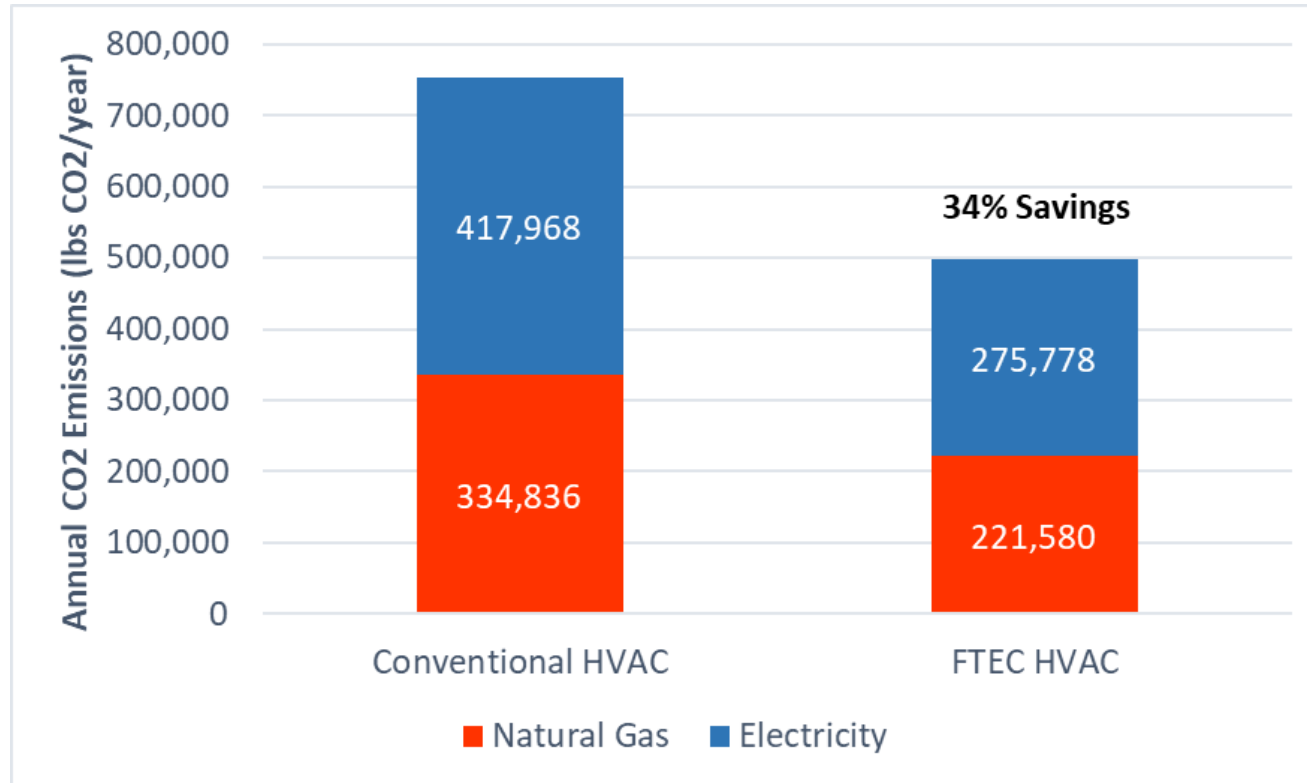
Comparison of Annual Energy Costs: Conventional System vs FTEC System (IES VE simulation)



- Study performed by Syska Hennessy, an expert energy modeling firm.
- The energy consumption for cooling, heating, all the fans and pumps are less for the FTEC system.

Case Study: 200 Room Hotel (Cont.)

Carbon Impact Using Existing Electricity and Natural Gas Supply: Conventional System vs FTEC System

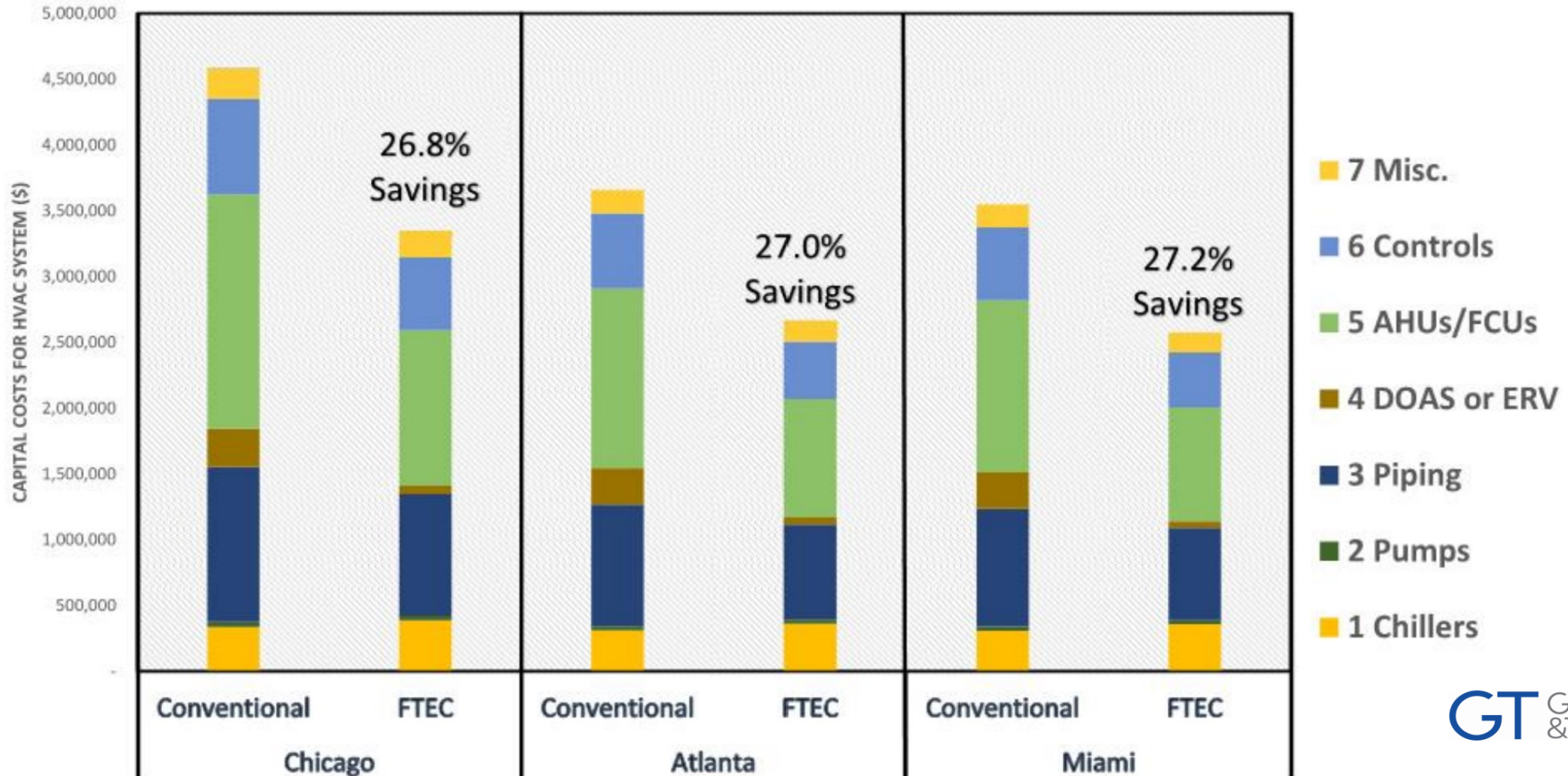


assumptions: 0.855 lbs. CO₂ / Kwh; 12 lbs. CO₂ / therm

- FTEC's system reduces CO₂ emissions by 34% due to the increase in the efficiencies of the use of both electricity and natural gas.
- The current use of natural gas boilers can be replaced with electric heat pumps as more renewable electricity is available. This will provide an all-electric HVAC system which consist of electric heat pump chillers for cooling and electric heat pump heaters for heating.
- When this system is provided with 100% renewable electricity it will provide zero CO₂ emissions with the minimum amount of renewable electricity.

Case Study: 200 Room Hotel (cont.)

Comparison of Capital Costs: Conventional System vs FTEC System



Resources

- Patents:
 - 3 U.S. Patents
 - 14 U.S. and Foreign Patents Pending (4 different patent families)
- Additional Information available at ftenergycontrols.com:
 - *White Paper: A Solution to the Climate Crisis for Buildings*
- Available upon request:
 - Syska Hennessy and Gardiner & Theobald Report of their Independent Engineering Evaluations

Founders



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Previously Principal Consultant for New Energy Technologies, LLC where he assisted clients transitioning New Energy Technologies
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THANK YOU.



FT Energy Controls, LLC