

Multifamily Energy-Efficiency Retrofit Programs: A Florida Case Study

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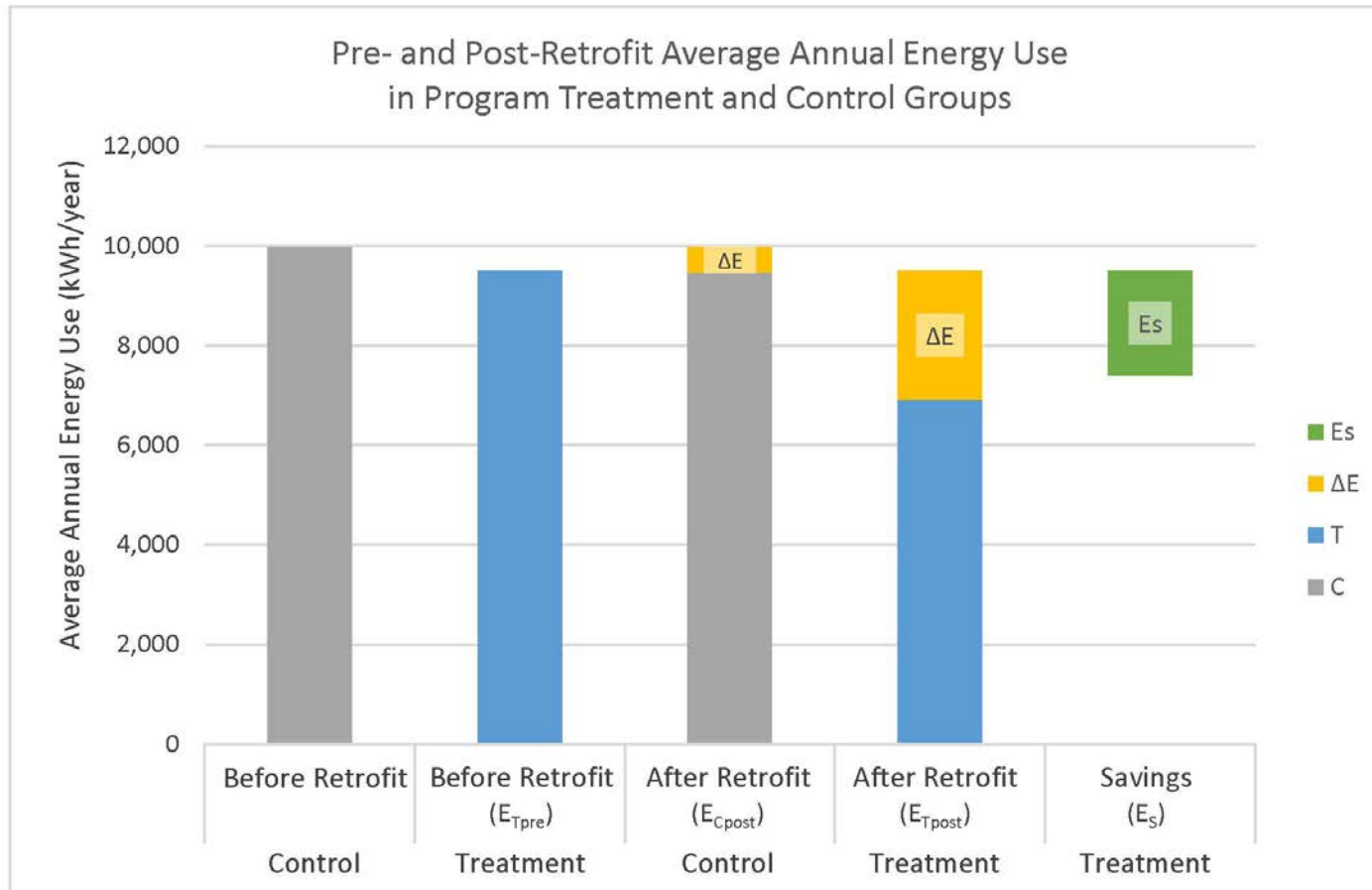
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Multifamily Energy Retrofits Results: Implementation



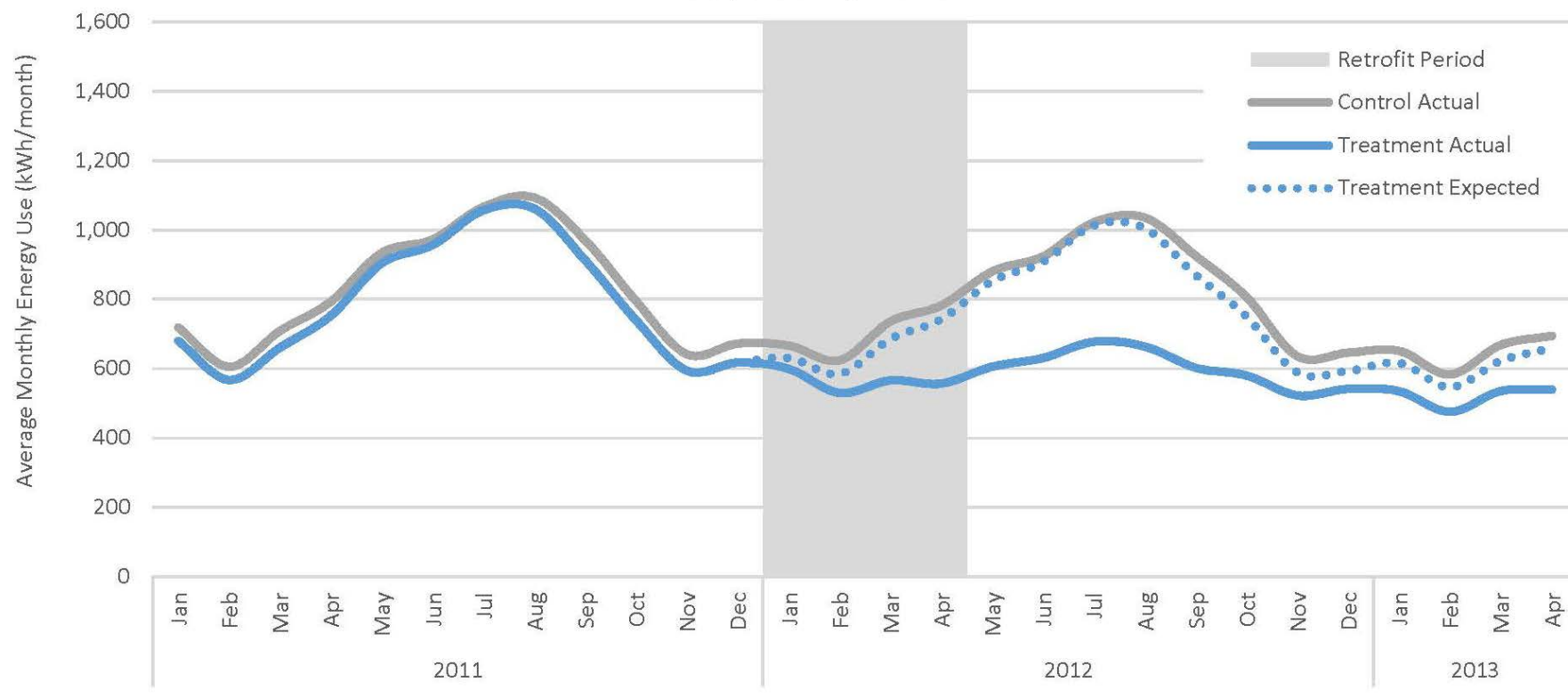
- ARRA funded
- 5 multifamily properties
- 356 units retrofitted
 - SEER 15 Heat-pumps
 - Energy Star Refrigerators
 - Solar Window Film
 - R-30 Attic Insulation
 - Duct Repair
 - Water Saving Fixtures
 - CFLs

Multifamily Energy Retrofits Results: Annual Savings



Multifamily Energy Retrofits Results: Seasonal Savings

Average Monthly Energy Consumption for Program Treatment and Control Groups
January 2011 - April 2013



Targeting Utility Customers Results: Overall Outcome

Retrofit Impact Metric	All Complexes
Total Apartment Units Retrofitted	232
Average Retrofit Cost (\$/unit)	\$4,359
Total Retrofit Cost (\$)	\$1,011,388
Overall Expected Life of ECM Packages	12 Years
Average Annual Baseline (Pre-Retrofit) Energy Consumption of Retrofit Apartments	9,499 kWh/unit
Average Annual Baseline (Pre-Retrofit) Energy Bill	\$1,235/unit
Average First-Year Energy Savings (kWh)	2,094 kWh/unit
Average First-Year Energy Savings (%)	21.90%
Total First-Year Energy Savings	530.1 MWh
Average First-Year Bill Savings	\$272/unit
Total First-Year Bill Savings	\$68,913

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