Multifamily Energy-Efficiency Retrofit Programs:
A Florida Case Study

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UF Program for Resource Efficient Communities

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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

- Retrofit Period
- Control Actual
- Treatment Actual
- Treatment Expected

Chart showing average monthly energy consumption from January 2011 to April 2013 for retrofit, control, and treatment groups.
### Retrofit Impact Metric

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

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