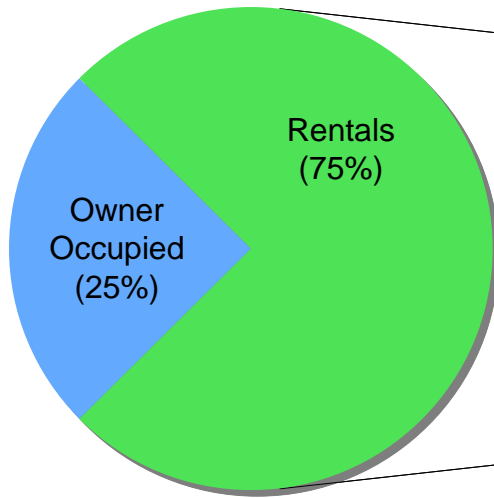




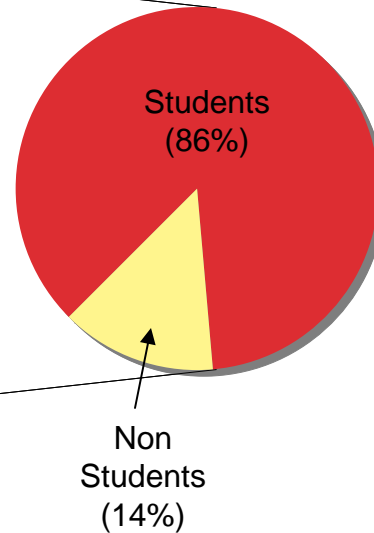
Green House Project: Carbon Offsets in a Local Setting

Athens, O.

Total Housing Stock



Rental Units



- Needy housing stock
- Third of students pay over **\$100 month** for utilities
- Top factor in selection: total cost of rent + utilities
- Presidents' Climate Commitment, Cool Cities
- Grant funding



Benefits



- Whole house energy audit
- Recommendations for upgrades
- Conservation info for residents
- Free CFL's and showerheads
- Listing of local service providers
- Final quality inspection
- Promotion of participating properties

\$500
Cash Back



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Process

- Outreach
- Expressed interest by students and/or landlord
- Application
- \$75 start up fee paid by landlord



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Enrolled Properties



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Timeline



- **Energy Audit:** within 30 days
- **Audit Report:** within 2 weeks
- **Upgrades:** within 6 months
- **Student Session:** Winter 2009
- **Final Inspection & Reimbursement:** within 30 days



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Recommended Upgrades



- Building insulation **95%**
- Air Sealing **90%**
- Water heater insulation **50%**
- Appliance replacement **50%**
- CFLs **75%**
- Clean & tune appliance **30%**
- High efficiency showerheads **15%**



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\$\$ Invested

- Average Landlord **\$1,450**
- Total Landlord **\$26,050**
- Average Reimbursed **\$330**
- Total Reimbursed **\$6,000**



Results

- **Average kWh/yr/house** **3,294**
- **Total kWh/yr** **59,290**
- **Average CO₂/yr/house** **3.62**
- **Total CO₂/yr reduced** **65.25**



Carbon Offsets

\$667 per ton of CO₂/yr

- 1 ton of CO₂ = 1 carbon offset
- Market price for 1 carbon offset: \$10 - \$30



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Challenges

- Participation and Landlord buy in
 - 40 spots, 20 participants
 - 20% of participating landlords made no investment
- Cost per ton CO₂
- Time & Effort
 - Large time commitment
 - Projected timeline not met



Thank you!

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