Grant Funded

Department of Energy & Environment grant to Steven Winter Associates, Inc. awarded on July 20th, 2015

Project Description

Develop and manage an energy and water efficiency competition for multifamily rental housing



Source: http://cdnassets.hw.net/ee/82/909ebd37477cbbfeb444d1d e5f5b/ra020501081h1-tcm48-290219.jpg

Phase I Activities

- Survey
- Technology Research
- Competition Toolkit
- Recommend Pilot Sites
- Strategic Plan



Source: http://cdnassets.hw.net/ee/82/909ebd37477cbbfeb444d1d e5f5b/ra020501081h1-tcm48-290219.jpg

Survey

- 3 types distributed: Resident, Manager, Owner
- Online tool and paper
- August 24 September 18
- Outreach to 155 multifamily owners, managers, and membership groups

About 1	ne and my apartment
1. My building i	
	ss/Building Name
City	State
2. Do you own o	or rent? *
O Own	
O Rent	
	n an apartment building?
For the purposes o	f this survey an apartment building is considered a building with 4 units or more)
U Yes	

SURVEY RESULTS

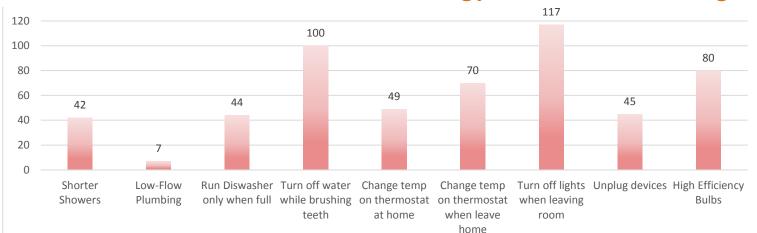
- 127 resident responses
- 12 managers and 2 owners representing 58 buildings
- Incentives
 - Drinks with Tommy Wells!
- Barriers
 - Upfront cost of improvements
 - Split incentive

45% of residents agree they would pay more for an apartment with energy and water efficiency features

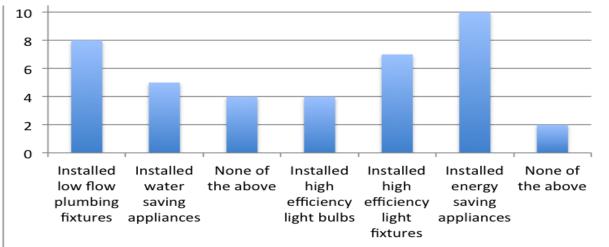


SURVEY RESULTS

Resident Actions to Reduce Energy and Water Usage



Manager Actions to Reduce Energy and Water Usage





TECHNOLOGY & VISUALIZATION TOOL

		Aquicore	Energy Score Cards	GreenPSF	Greenprint	Lucid Building OS	Portfolio Manager	WegoWise
Integration with Portfolio Manager		Ø	V	V	V		V	
Reports on Water Usage		\square	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Automatically imports utility data			V			V		V
Reporting	Variety	\checkmark					\checkmark	V
	Alerts	\square	\checkmark			V		V
	Customizable	\checkmark				\checkmark		
Benchmarking Capability	Normalized	\checkmark				V	\checkmark	V
	Database							V
	Real Time	\checkmark				V		
User Friendly Interface	Interfaces	\checkmark				\checkmark		
	Social Media	V		\checkmark		V		
	Competition	\checkmark				\checkmark		
Multifamily Experience			<u>N</u>	<u>ର</u>	<u>ର</u>		N	1 1 1 1
Total (Maximum 14)		11	8	6	6	11	6	9
Price (Per Building/Year)		\$5000-+	\$500	Free		\$5000-\$10000	Free	\$120-300

ENERGY AND WATER REDUCTION

Competition Toolkit

- Competition how-to guidebook
- Engagement and planning tools
- Education and activities to run 6 month competition



Competition Pilot

- Select pilot participants from survey respondents
- Focus on building to building energy and water reduction
- Establish building engagement teams of residents and management
- Customize toolkit with building specific details
- Run 6 month competition with regular education and ongoing activities to reinforce behavior change
- Monitor energy and water usage before, during and after competition to assess effectiveness of activities

Strategic Plan : Toolkit

- Scale to District wide competition platform including condos, co-ops and dorm
- Pilot a competition pairing physical upgrades with behavior change
- Develop behavior based efficiency incentives
- Engage managers and staff with trainings and best practices on building level improvements, and ongoing operations and maintenance

Strategic Plan : Policy

- Consider existing District regulations and their current and potential impact on energy and water reduction in multifamily buildings
- Research national and international successful policy models
- Engage an advisory board to direct research and draft voluntary and mandatory regulation changes