

POWER DOWN DC: A Multifamily Energy & Water Challenge

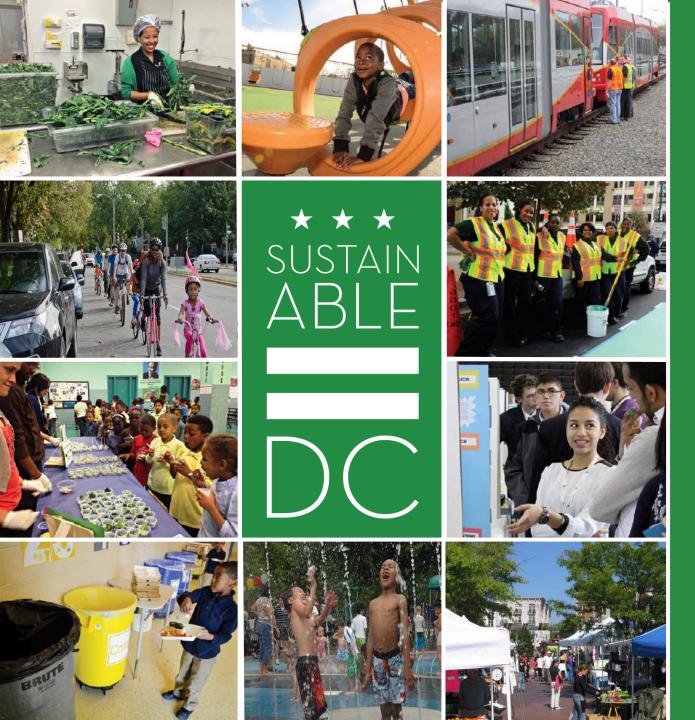
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AGENDA

- Sustainability in DC
- Why Behavior Change
- Program Design
- Methodology
- Challenges
- What's Next?



In just **ONE** generation - 20 years the District of Columbia will be the healthiest, greenest, most livable city in the United States.

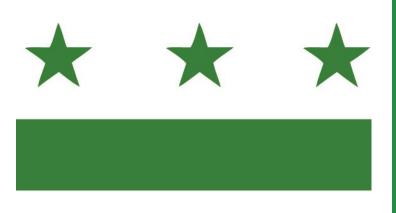


Sustainable DC Framework



Through 7 Solutions





DEPARTMENT OF ENERGY & ENVIRONMENT

TARGETS: By 2032....

- Cut citywide energy use 50%
- Cut citywide greenhouse gas emissions 50%
- Increase use of renewable power to 50%
- Cut citywide water use by 40%
- Retrofit 100% of existing commercial and multifamily buildings to achieve net-zero energy standards
- Meet net-zero energy use standards with all new construction projects

POWER TOWN DC

A Multifamily Energy & Water Challenge



POWER *** DOWN DC

A Multifamily Energy & Water Challenge





GOALS:

- 5% energy use reduction
- 5% water use reduction
- Build community
- Educate residents on efficiency behaviors
- Work toward District sustainability targets

POWER *** DOWN DC

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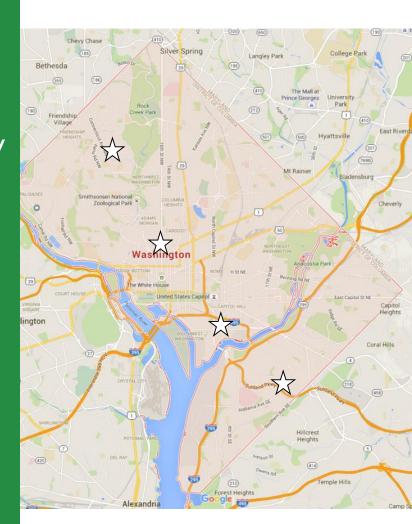






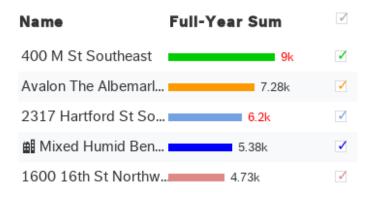
PILOT PARTICIPANTS:

- The Albemarle, Avalon Bay
- Sixteen Hundred, Daro Management
- 400 M Street, Urban Atlantic/Edgewood
- Garfield Hills, POAH



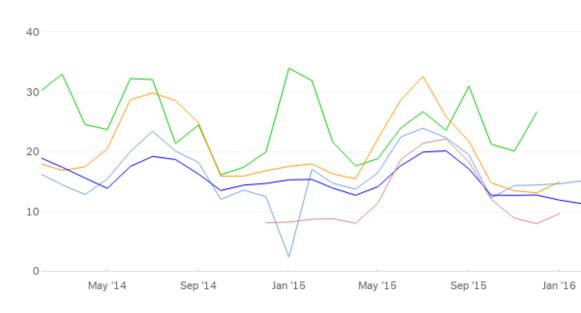
BASELINE ELECTRIC USE

Electricity use in kWh per apartment



Incomplete total due to missing data

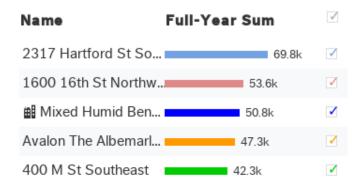
Detailed data per month





BASELINE WATER USE

Water consumption in Gallons per apartment

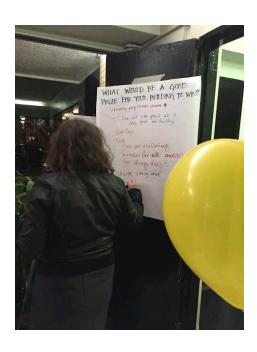


Detailed data per month

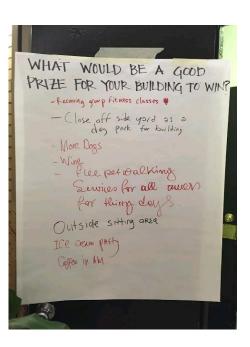




EVENTS









COMMITMENTS AND PROMPTS

POWER *** DOWN DC A Multifamily Energy & Water Challenge GET INVOLVED Earn points for your building across three categories ENERGY WATER PARTICIPATION Join our educational events in your building and reduce your energy and water usage Interested in learning more?

Contact us:

www.powerdowndc.com info@powerdowndc.com

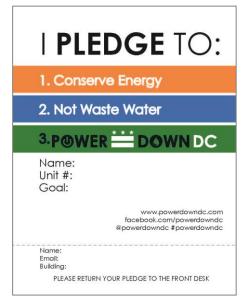
facebook.com/powerdowndc @powerdowndc

TOP 10 WAYS TO SAVE

- 1. Use cold water for laundry
- Turn off electronics when not in use and use energy saving features
- 3. Turn off lights when you leave the room
- 4. Make sure refrigerator door fully closes
- Replace incandescent bulbs with CFL or LED
- 6. Use blinds or shades
- 7. Reduce shower time by 5 minutes
- 8. Report water leaks
- 9. Run full loads of laundry
- Turn off faucet when brushing teeth and washing hands

www.powerdowndc.com







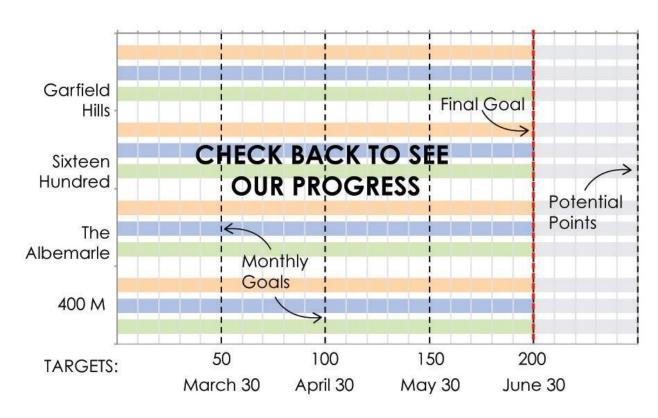
HOW TO WIN

- All buildings can win
- Highest overall reduction
- Final awards ceremony
- Raffles at all Events



METHODOLOGY

LEADERBOARD





METHODOLOGY

EARNING POINTS

- Energy
 - Tracked monthly to 5% goal
 - Earn 10 points/month for each %, totaling 200 points
- Water
 - Tracked monthly to 5% goal
 - Earn 10 points/month for each %, totaling 200 points



METHODOLOGY

EARNING POINTS

- Participation
 - Tracked monthly
 - Some earned by building leaders
 - Some earned by participating in education, group and individual activities to reduce use



Share your participation with us and other buildings on Facebook and Twitter with #PowerDownDC





CHALLENGES

- Building internal communication at property level
- One size doesn't fit all
- Getting people to show up
- Utility tracking



WHAT'S NEXT

- How to scale program to more buildings
- Refine and cut what isn't working
- Re-imagine competition
- Integrate with other
 District sustainability
 programs

