

INCREASING ENERGY EFFICIENCY

Accelerating Deep Energy
Retrofits

Facilitators:

Jenny Egen, Environmental Finance Center
Maia Davis, Metropolitan Washington Council of
Governments



Benefits of Increasing Energy Efficiency

- Reduces greenhouse gas emissions.
- Reduces air pollution.

Environmental Benefit



- Positive impact on outdoor air quality and public health.
- Potential to improve indoor air quality.

Human Health Benefit



- Break the cycle of energy poverty.
- Homes and businesses save money on energy costs.
- Attract new and retain existing tenants.
- Increase a building's value and generate more income.
- Can create net increase of jobs and GDP.

Economic Benefit





Sources: EE Image Database and whistechcollege/ Flickr



Snapshot of Efforts in the County

- County energy performance contracts to perform energy and water improvements to 10 county government buildings generates approximately \$1,000,000 of energy savings annually.
- County's Sustainable Energy Program has set energy efficiency goals to:
 - Help grant recipients achieve at least 15% energy savings for energy efficiency projects and 10% energy savings for solar projects;
 - Help grant recipients reduce energy consumption by 20% or greater for office buildings and multifamily dwellings.
- County Energy Efficiency Grant Program (up to \$7.5K) for residents in Energy Resilience Zones (formerly Transforming Neighborhoods Initiative) County Energy Star Certification and Green Leasing Program.
- The County provides "Energy Coach" serves as an objective and trustworthy advisor for community-based sustainable energy initiatives.
- FSC First is a designated Fund Manager for the Commercial Property Assessed Clean Energy (C-PACE) Program assists commercial property owners in accessing financing energy efficiency and clean energy improvements.

Change is Happening

- Maryland slashed its energy-related carbon dioxide (CO2) emissions 2005 while simultaneously growing the state economy by 17.7 percent.
- GHG emissions in the County have decreased 15% between 2005 and 2018.
- Maryland ranks in the top 10 of the ACEEE Energy Efficiency Scorecard recognized for energy efficiency standards, codes and utility public benefit programs.



Redevelopment Authority of Prince George's County Programs and Projects

The Redevelopment Authority offers first time homebuyers assistance, Community Impact Grants (up to \$75K), Commercial Property Improvement Program (\$50K - \$350K), redeveloped affordable housing to LEED and net zero energy standards.

The Redevelopment Authority homes redeveloped to net zero energy standards include a 100-year-old home near Suitland Federal Center (pictured above) and 8 homes along the DC border.



Preliminary Energy Efficiency Action Recommendations

- Establish building benchmarking requirements and standards across the County for both the public and private sector.
- Accelerate the number of homes and businesses implementing deep energy retrofits.
 - Offer financing solutions, incentives and technical for residential and commercial buildings to improve energy efficiency through deep energy retrofits.
 - Prioritize assistance to seniors, low-income, and other vulnerable communities to retrofit homes or provide energy efficiency upgrades to homes. Consider opportunities to streamline permitting to support and incentivize deep energy retrofits.



What does a successful Prince George's County energy efficiency program look like?

- WHO?
- WHAT?
- WHEN?
- WHERE?
- HOW?



What could an energy efficiency program in Prince George's County look like?

- *E.g., neighbors engaging neighbors, financial incentives*
- What are options in different types of housing?
- Bowie senior EE program
- Encourage/educate community solar
- Expand communications on existing programs - County sustainable energy program resources, utility programs
- MF housing (rental, senior housing, etc.) is underserved by these programs, need to engage owner or HOA. Legislate and require EE upgrades.
- Step Up program – widespread EE in homes in communities combined with energy coach supports



Challenges

- Multifamily housing
- Lack of control over what happens in a rented or leased space

Opportunities

- *E.g., enhancing energy coaching services*
- Energy coaches
- EE supports for seniors
- Enhanced rebates and pilot programs (heat pumps, innovative technologies)

Who benefits?

-

Who is burdened or left out?

- Elderly need assistance and to know where to go for EE help

How do we ensure equitable outcomes?

- *E.g., Prioritize projects, promotion of opportunities, or technical support in low-income communities*
- Motivate MF property owners via benchmarking paired with incentives
- Education, including on new technologies (like heat pumps)
- Secure energy - back-up/alternative heat source (addressing power outages), electrification, preparedness
- Preventative maintenance on appliances
- Strategic tree planting near home for EE
- Piloting new clean technologies (fuel cells, hydrogen)

What does success in the County look like in the next 3-5 years?

- Research and Data Needs
- Policy/Ordinance Changes
- Residential Outreach Efforts
- Monitoring and Evaluation

- Commercial, govt, schools EE in the plan
- Spreading the news through trusted sources - seniors, community centers, churches, MF, etc.
- Legislate and require commercial sector to benchmark and require EE upgrades.

Apply to be a County Climate Action Resident Expert

- <https://forms.gle/z92cx7LLrYTmNLN17>

Visit the DMV Climate Partners Website

- <https://climatepartners.org>

Learn More About Upcoming Meetings

- mypgc.us/climateactionplan

Explore the County CAP Virtual House

- <https://bit.ly/2S7PgEQ>

Provide Comments and Feedback

- <https://bit.ly/3vBKqNJ>

Stay Engaged





6. INCREASING ENERGY EFFICIENCY CHAT TEXT

20:09:56	From Efficiency -Comm. William Ellis - Pepco : Great points.
20:10:23	From Efficiency -Comm. William Ellis - Pepco : Both Prince County and Pepco have incorporated Energy Coaches into their programs.
20:11:18	From Efficiency -Comm. William Ellis - Pepco : For the Split Incentive Program for Multifamily. - we have seen benchmarking laws motivate owner to do energy efficiency improvements
20:12:53	From 🗣️ Facilitator: Jennifer Egan, EFC to Efficiency -Comm. William Ellis - Pepco(Direct Message) : can you talk more about the split incentive program?
20:13:05	From JAMEE ALSTON : Refrigerators utilize a lot of energy. Make certain that you keep coils free of dust!
20:13:12	From JAMEE ALSTON : R22
20:14:42	From JAMEE ALSTON : DOE Better Buildings Summit has MF Housing ideas/information. Check out this past year's Better Building Summit.
20:16:09	From JAMEE ALSTON : Routine Preventative Maintenance of HVAC equipment helps. Make sure filters are changed in a timely fashion.
20:17:01	From JAMEE ALSTON : Correction: Better Buildings Summit was held in May 2021 (virtually)
20:17:06	From Maya Miller : sorry I don't know much about this topic so I'm really just here to listen
20:18:37	From 🗣️ Facilitator: Jennifer Egan, EFC to Maya Miller(Direct Message) : Ok wonderful thank you!
20:23:36	From Efficiency -Comm. William Ellis - Pepco : HVAC Tune Up Program is a great offering.
20:24:15	From 🗣️ Facilitator: Jennifer Egan, EFC to Efficiency -Comm. William Ellis - Pepco(Direct Message) : Is that something that is offered or should be?
20:24:48	From Efficiency -Comm. William Ellis - Pepco to 🗣️ Facilitator: Jennifer Egan, EFC(Direct Message) : I think Utilities filed for it but it was approved. Something the County can take up.
20:25:38	From 🗣️ Facilitator: Jennifer Egan, EFC to Efficiency -Comm. William Ellis - Pepco(Direct Message) : County subsidy / grant? as part of an existing program?
20:32:24	From Efficiency -Comm. William Ellis - Pepco to 🗣️ Facilitator: Jennifer Egan, EFC(Direct Message) : County ran program as a part of their other programs.
20:33:41	From 🗣️ Facilitator: Jennifer Egan, EFC to Efficiency -Comm. William Ellis - Pepco(Direct Message) : Great thank you !