CLEAN ENERGY DC
THE DISTRICT OF COLUMBIA CLIMATE AND ENERGY PLAN

Informational Webinar
June 17, 2021
AGENDA

• Overview of the Clean Energy DC Plan
• Implementing CEDC
• Updating the Plan
• Discussion
• Next Steps
WHAT IS CLEAN ENERGY DC?

The Plan
• Adopted August 2018
• The District’s energy plan and climate action plan
• Roadmap for achieving the Sustainable DC 2032 climate & energy targets
• Recommends 57 action items across the buildings, transportation and energy system sectors

The Act
• The Clean Energy DC Omnibus Amendment Act of 2018 (effective March 22, 2019)
• Turns major CEDC Plan recommendations into law
• Cross-sectoral: energy efficiency, renewable energy, electric vehicles and economic benefits
DC CLIMATE AND ENERGY GOALS

Goals
Reduce GHGs by 50% by 2032

Progress
~30% GHG reduction in 2018

A reduction in GHG emissions by...
50% by 2032
100% by 2050

A reduction in District-wide energy use by...
50% by 2032

An increase in the use of renewable energy to make up 50% of the District’s energy supply by 2032.

Meeting our Climate Goals
The District has cut its citywide carbon footprint 30 percent since 2006.
Source: Department of Energy and Environment

@DOEE_DC
DISTRICT GHG EMISSIONS

2019 EMISSIONS BY SECTOR

- BUILDINGS & ENERGY 71%
- TRANSPORTATION 24%
- WASTE 6%

BUILDINGS & ENERGY
- COMMERCIAL 71%
- RESIDENTIAL 29%

TRANSPORTATION
- PASSENGER VEHICLES 83%
- TRUCKS & BUSES 10%
- TRANSIT 7%

WASTE
- LANDFILL 55%
- INCINERATION 37%
- WASTEWATER 8%
ESTIMATED CEDC
GHG SAVINGS BY SECTOR

RELATIVE IMPACT
OF ACTION AREAS

GHG Emissions (MtCO2e)

Buildings
Energy Supply
Transportation
GHG emissions after policies
Baseline GHG Emissions
Targeted GHG Emissions

Electric & Efficient Vehicles 20%
Shifting to Transit, Walking, & Biking 10%
Net-Zero New Buildings 10%
Efficient Existing Buildings 20%
Renewable Energy Outside DC 35%
Local Renewable Energy 5%
ESTIMATED GHG SAVINGS

<table>
<thead>
<tr>
<th>CEDC Plan Action Area</th>
<th>Percent GHGs Reduced from Total 2032 BAU</th>
<th>Addressed in CEDC ACT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal Fuel Economy Standards</td>
<td>7.1%</td>
<td>CAFE</td>
</tr>
<tr>
<td>New Construction Policies</td>
<td>4.6%</td>
<td>codes</td>
</tr>
<tr>
<td>Existing Building Policies</td>
<td>9.0%</td>
<td></td>
</tr>
<tr>
<td>District Government Buildings</td>
<td>0.5%</td>
<td></td>
</tr>
<tr>
<td>Renewable Portfolio Standard</td>
<td>9.5%</td>
<td></td>
</tr>
<tr>
<td>RPS Local Solar Requirement</td>
<td>1.9%</td>
<td></td>
</tr>
<tr>
<td>PPA for Standard Offer Service</td>
<td>6.6%</td>
<td>PSC</td>
</tr>
<tr>
<td>Neighborhood-Scale Energy</td>
<td>0.6%</td>
<td></td>
</tr>
<tr>
<td>Mode Share Change</td>
<td>3.6%</td>
<td>moveDC</td>
</tr>
<tr>
<td>Electric Vehicle Adoption</td>
<td>0.9%</td>
<td></td>
</tr>
<tr>
<td>Transit Bus Fleet Electrification</td>
<td>2.6%</td>
<td></td>
</tr>
<tr>
<td>Total GHGs Avoided vs. 2032 BAU</td>
<td>47.0%</td>
<td></td>
</tr>
<tr>
<td>Total GHGs Reduced vs. 2006 Baseline</td>
<td>55.7%</td>
<td></td>
</tr>
</tbody>
</table>
Progress and Achievements
BUILDINGS HIGHLIGHTS

• First **Building Energy Performance Standard** est. Jan 1, 2021*
• Est. **DC Green Bank** - Open for business!
• Created **Building Innovation Hub**
• Passed more stringent **building energy codes**
• New workforce development programs created*

**SPOTLIGHT: Building Energy Performance Standard**

- 20% reduction in energy use for buildings that do not meet the Standards
- Represents 12% reduction in GHG by 2032
- $30.032m ARP/SETF funding in FY22 to assist affordable housing and other low-income/under-resourced buildings. A similar amount of funding is anticipated in FY23 and FY24.

* Denotes program created by Clean Energy DC Omnibus Amendment Act
TRANSPORTATION HIGHLIGHTS

• Develop **Transportation Electrification Roadmap** by 2021*

• Established Vehicle excise tax on high-emitters*

• Expanding fleet of all-electric Circulator buses

• AV working group set to make recommendations

**SPOTLIGHT: Transportation Electrification Roadmap**

• This is the city’s plan for electrifying cars and buses to meet the targets set in the CEDC Act, including 25% of vehicle registrations zero-emissions vehicles by 2030 and 50% of public buses and large fleets ZEV by 2030

• Plan to be published in 2021

* Denotes program created by Clean Energy DC Omnibus Amendment Act
ENERGY HIGHLIGHTS

• 100% renewable electricity standard by 2032*
• Increased local solar carve-out (10% by 2041)*
• Green Bank supporting solar installations
• Solar for All provides discounted solar to 5,400 low/moderate income homes
• Solar Works expands to create more inclusive workforce

SPOTLIGHT: Solar and Equity

• $22m in ARP funding for FY22 will support an est. 14MW of new installations, benefiting ~4,000 new income-eligible households
• Solar training program, Solar Works, to double number of trainees to 150 DC residents utilizing same funding as above

* Denotes program created by Clean Energy DC Omnibus Amendment Act
What’s next for the Clean Energy DC Plan?
UPDATING THE PLAN

Statutory Requirements

- The CEDC Plan fulfills the District’s statutory requirement to produce a Comprehensive Energy Plan (CEP)

The Planning Cycle

- Plan cycle is every 5 years
- The 2018 plan marked a big shift in the CEP
  - Moved beyond simply quantifying energy use and supply to providing a cross-sector decarbonization framework
  - Forward-thinking plan that set ambitious, but achievable goals
- Updated Plan due in 2023
  - What will be in this plan?
THE NEXT ITERATION

Vision and Goals

- Supports the Mayor’s vision to make the District of Columbia the healthiest, greenest, most livable city for all District residents
- A roadmap that will allow the District to meet or exceed its 2032 energy and climate goals, while putting the city on a path to carbon neutrality by 2050

Considerations for the new plan

- Recommended Actions- Update and add new policies, agency actions, financing mechanisms, etc.
- Framework- Current framework considers direct emissions from operations of building, vehicles and power generation, but does not include lifecycle emissions associated with goods and services bought and used in the District, such as the carbon embodied in construction materials or consumer products.
- Areas of focus- Define or update the areas of focus/sectors the plan should address (i.e., buildings, transportation, energy supply, grid modernization, equity, economy)
ROUGH TIMELINE

2021
• Take stock of implementation to date; stakeholder and community engagement

2022
• Draft plan, release for public comment, revise based on feedback

2023
• Publish plan and begin implementation
DISCUSSION QUESTIONS

1. What do you see as challenges or barriers for meeting our 2032 GHG and energy goals? What are the gaps in the current plan?

2. What sectors or areas of focus should be prioritized? Buildings, transportation, grid modernization, energy supply, energy demand, equity, environmental justice, economy, workforce? Why?

3. What are your new ideas? Can the plan be used to “reimagine energy” in DC, develop a circular economy, reduce our energy use and GHG emissions from all the resources consumed in DC?

4. How should DOEE engage the community and its stakeholders in this process?
NEXT STEPS

• Resident survey - https://www.surveymonkey.com/r/CleanEnergyDC2

• CEDC Newsletter

• Keep an eye out for updates and opportunities to participate!

• Email cedc2.0@dc.gov
THANK YOU

Jamie Donovan
Energy Administration, DOEE
Jamie.Donovan@dc.gov
(202) 815-8063

Jennifer Johnston
Energy Administration, DOEE
Jennifer.Johnston@dc.gov
(202) 440-1298