



AEG Washington 22Q3 Stakeholder Challenge on Grid Modernization • July 14, 2022

Kishia L. Powell, Chief Operating Officer

dc Timeline to Modernization

2015

DC Water unveiled \$470M bio-energy facility

2016

Developed energy opportunities

2018

DC Clean Energy Plan released
DC Water HQO Building opened; includes wastewater thermal system

2020

Implemented Phase I Solar Program including 12,343 solar panels

2021

AEG Challenge to achieve District's Clean Energy Goals

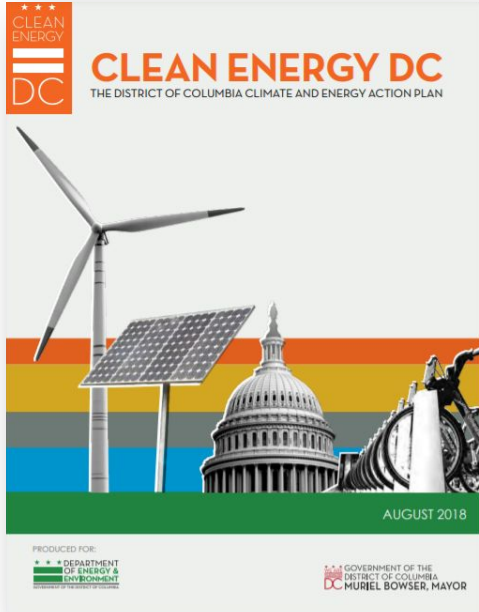
2022

DC Water Clean Energy portfolio is finalized; prioritized by Equity, Carbon and Resilience

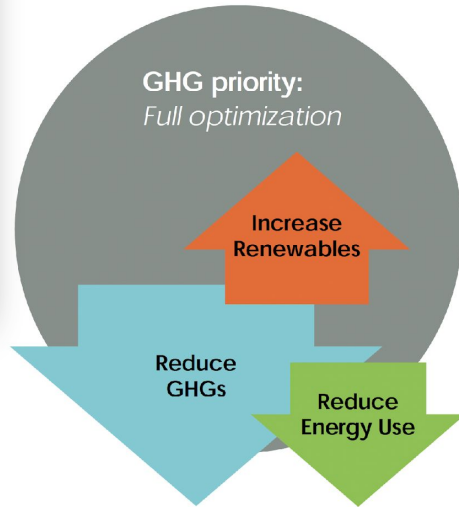




Grid Modernization Objectives in the District



- More renewable energy generation within the District
- Improving the efficiency and **reliability** of the energy we use
- Improving the **resiliency** of our energy system
- Providing economic benefits to District residents and businesses



Clean Energy DC is the District's plan to cut **GHG emissions in half by 2032**

The District has committed to become **Carbon Neutral by 2050**

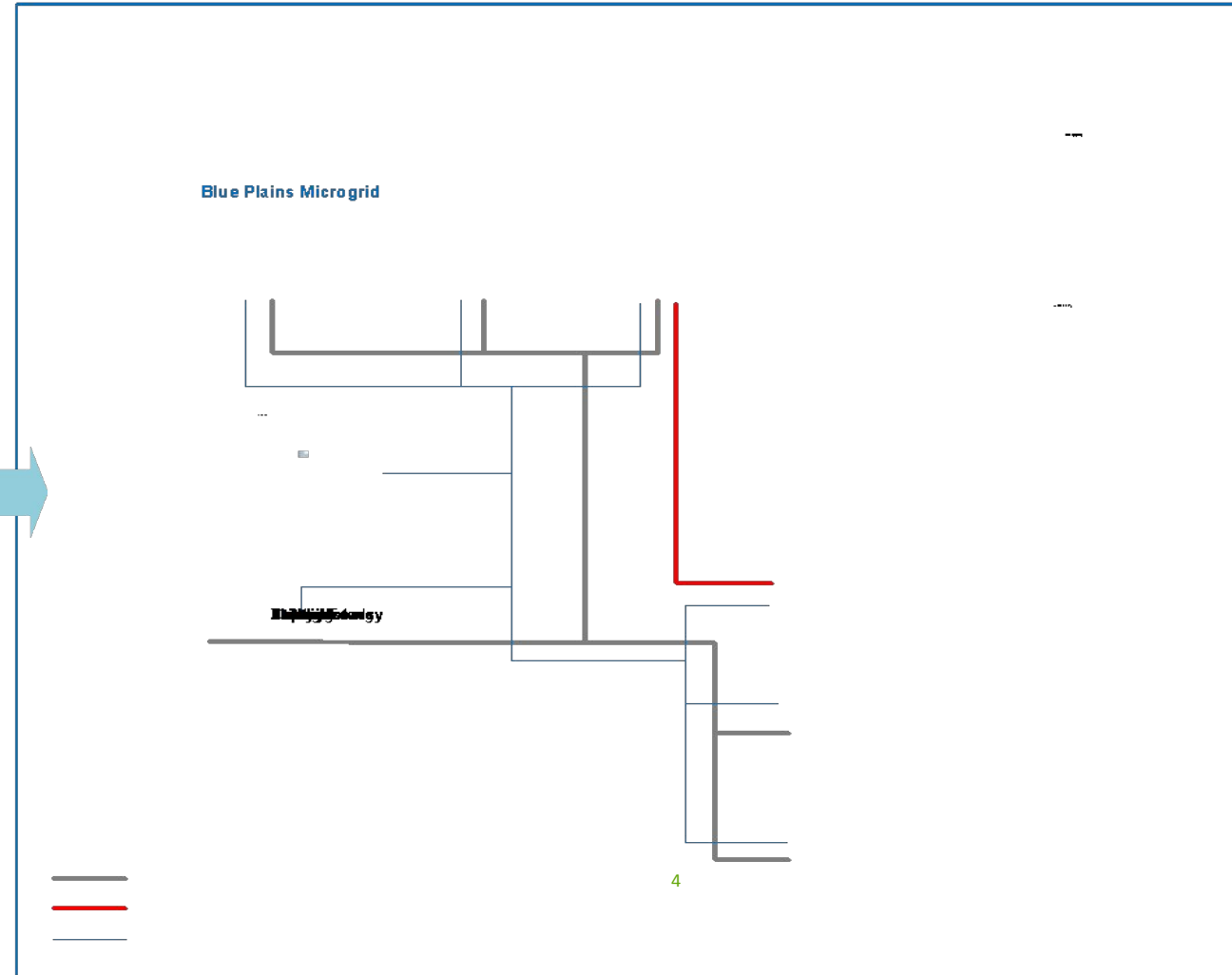
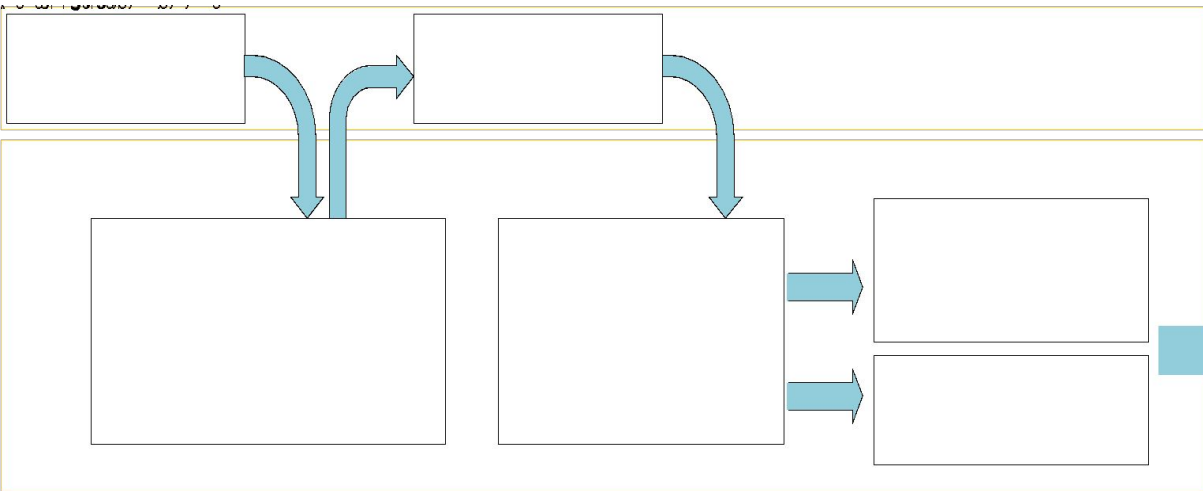
dc ENERGIZED

DC Water's Energy Opportunities

DC Water has identified opportunities to add renewable generating capacity, enhance energy resiliency, and reduce carbon emissions in the District. This map highlights potential locations.



Reliability to Resilience – Key Challenge





Benefits/Consequences

An aerial photograph of a solar panel installation site. The image shows rows of solar panels mounted on metal racks in an open area. A large, semi-transparent blue cross is overlaid on the center of the image. The background includes industrial buildings, a parking lot, and some greenery.

Benefits

- Reduce energy burden
- Offset operating costs
- Invest savings in critical infrastructure
- Create jobs
- Ensure reliability and resilience
- Achieve water equity and environmental justice

Consequences

- Vulnerable operations
- Service interruptions
- Missed opportunities for job creation
- Falling short of Climate, Health and Equity goals



Regarding Grid Modernization, to achieve DC Metro's Climate, Health & Equity goals, a critical obstacle to collectively overcome in 12 months is aligning the Blue Plains Microgrid project scope with Justice 40 outcomes and securing federal funds for project implementation in partnership with external stakeholders.