

SUSTAINABLE DC: Climate Planning and Urban Resilience

sustainabledc.org sustainable.future@dc.gov

October 1, 2013

DC is a already leader

400+ LEED certified buildings; 300+ ENERGY STAR®

District Government buying 100% green power

Bag tax reduced disposable bag use by 60%

Almost 2,000,000 square feet of green roofs

First major bikeshare in U.S. (25,000+ members)

50% of District trips by transit, walking, or bike



Cutting Edge Framework

* * *
SUSTAIN
ABILITY

DC

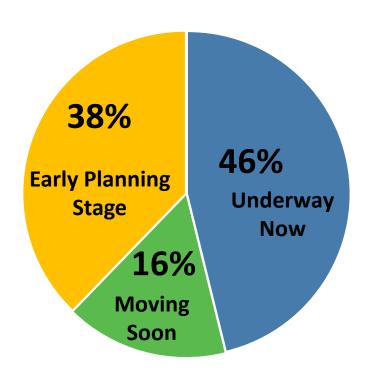
- ▶ 32 Ambitious Goals and Measurable Targets
- ▶ 143 Specific Actions short, medium and long term

4 CHALLENGES	7 SOLUTIONS
 Jobs and the Economy Health and Wellness Equity and Diversity Climate and Environment 	 Built Environment Energy Food Nature Transportation Waste Water

Implementing Fast Action Now



- New legislation: Sustainable DC Act II being developed now
- Mayor's Order: mirroring Obama's Executive Order 13514
- Performance Plans: Building actions into agency Performance Plans
- Coordinating with other agencies: identifying sustainability in further studies and plans





ENERGY 2032:

Reduce energy consumption by 50%

Increase the use of renewable energy to 50%

Reduce annual outages to 0 to 2 events of less than 100 minutes per year





CLIMATE 2032:

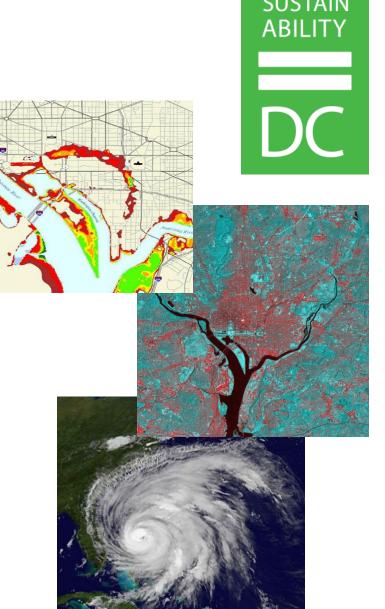
Reduce citywide greenhouse gas emissions by

50%

Require **all** new buildings and infrastructure projects undergo climate impact analysis

Climate Projections in DC

- ▶ Sea Level Rise: 41-57" higher levels (with rapid ice melt)
- Urban Heat: Number of Days Over 95°: 30 to 60 more days/year
- Precipitation: up to 15% more rain/year
- **Extreme Weather Events:** More frequent and more intense



Climate Action Incorporated Throughout Sustainable DC



CLIMATE and ENVIRONMENT

- Require adaptation solutions as part of planning consent for new developments. (Med)
- Evaluate the vulnerability of the District's energy infrastructure.(Short Term)

ENERGY

 Work with utility companies to improve the reliability of energy transmission and distribution. (Med)

TRANSPORTATION

 Design transit systems for resilience to extreme weather events. (Med)

EnergySmart DC Comprehensive Energy Plan

- Sets ambitious energy goals for the District:
 - Reduce consumption and increase local clean power generation through efficiency measures and district energy and renewables
 - Improve energy resiliency, such as through the Power Line Undergrounding Task Force to protect vulnerable transmissions lines
 - Expands energy business opportunities both locally and regionally based on the District's unique needs and Market Potential Study
 - Create green jobs for District residents

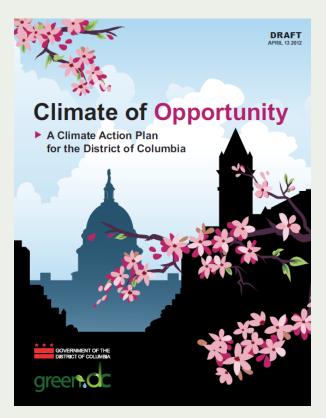




Climate Action Plan Fall 2013

- Draft plan released in 2010, being finalized now
- Reduce greenhouse gas emissions by 80% by 2050 (from 2006 baseline) from sectors:
 - Transportation
 - Building Energy Use
 - Wastewater Treatment
 - Waste Management
- Already seeing impressive reductions from the 2012 GHG inventory: 12% reductions between 2006 and 2011





Thank You! Questions?



For more information, contact:

John Heermans

john.heermans@dc.gov

(202)671-3041

sustainabledc.org



