

Jan 22nd, 2020

Battery Park City Sustainability Plan Public Roundtable

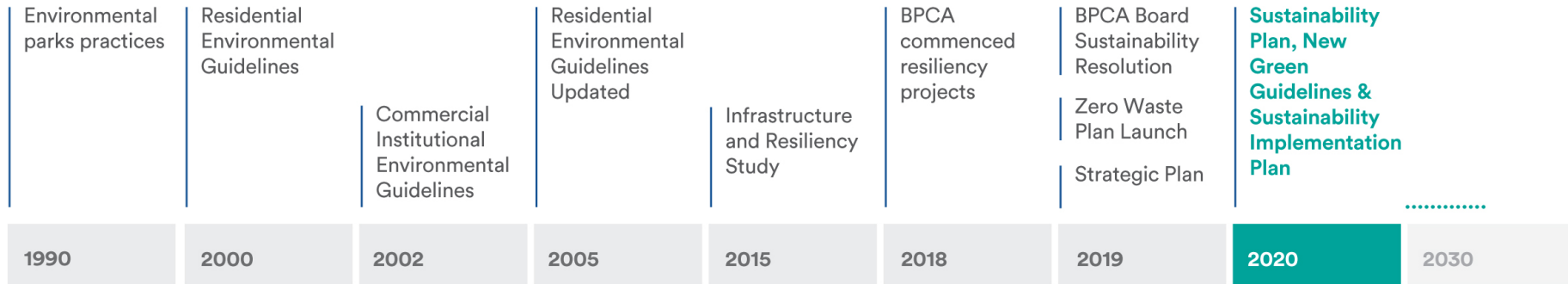
Objectives for the Day

Share information with you on the Battery Park City Sustainability Plan process

Hear your priorities

Capture concerns, questions, and feedback

BPCA Environmental Legacy



Outline

Introduction

to the
Process
10 min

Precedents
5 min

Breakout
Groups
1 hour

Close-out
30 min



Outline

**Introduction
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10 min**

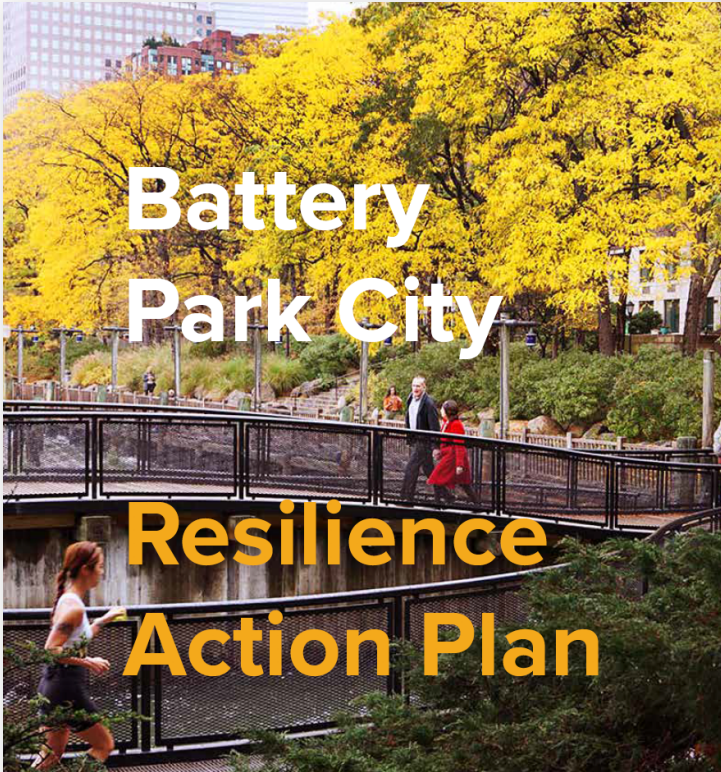
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5 min**

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Battery Park City Strategic Plan



Battery
Park City

Resilience
Action Plan



Goal 2.2

Develop and implement a strategy to achieve a carbon neutral Battery Park City

2.2.1 Develop a sustainability plan that includes new green guidelines

Create a 10-year sustainability plan for Battery Park City, including new sustainability guidelines

Environmental responsibility is a key component of our mission. As climate change projections become more dire, we will engage in a sustainability planning process that will accelerate our reduction in the emission of greenhouse gases (GHGs) and enhance our overall sustainability. The plan will focus on specific areas and activities that can accelerate implementation that include enforcement tools, collaboration strategies, and incentives. The plan will also build on and modernize our prior leading efforts by creating new Green Guidelines for the neighborhood and providing tactical guidance to stakeholders, such as building owners and local businesses.

Action type: Underway
Timeframe: Short

2.2.2 Accelerate neighborhood greenhouse gas reductions

Incentivize BPC's residential and commercial buildings to achieve carbon neutrality by 2050

In 2019 Governor Andrew M. Cuomo announced a Green New Deal to aggressively put New York State on a path to carbon neutrality. In addition New York City passed landmark legislation setting carbon emissions for buildings greater than 25,000 square feet in 2024. The second carbon cap will follow in 2030 and will be even more stringent. Our forthcoming new Green Guidelines will include detailed recommendations for buildings to maximize energy efficiency, monitor energy performance and purchase power from renewable sources. In order to meet and potentially exceed this target, we will explore potential mechanisms to incentivize BPC's building owners to do the same. BPCA will test the feasibility of funding sources for financial incentives, enforcement measures and/or other collaboration strategies.

Action type: Underway
Timeframe: Medium



Battery Park City Authority

BUROHAPPOLD
ENGINEERING



SCAPE



3x3 design

fxcollaborative



Vision

- **Innovative model**
- **Urban climate action**
- **Collaborate and mobilize**
- **Harmony with the environment**

Objectives

Sustainability Plan

Frame the long-range environmental vision for Battery Park City with overarching sustainability goals, objectives, and milestones.

Green Guidelines

Formulate targeted means and measures for achieving the objectives of the Sustainability Plan.

Sustainability Implementation Plan

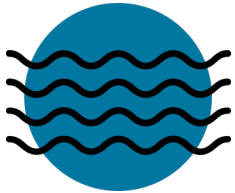
Develop a strategy for achieving targets and a framework for ensuring movement towards established goals.

Topic Areas



Energy

- Energy consumption
- Renewable energy



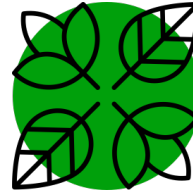
Water

- Water consumption
- Storm water management



Waste

- Waste management
- Use of 'Green' materials



Site

- Open space & landscape management
- Transportation
- Air Quality & Health



Energy

- Buildings in BPC have a variety of façade types and heating/cooling equipment, which impacts energy performance and greenhouse gas (GHG) emissions
- There is apx. 350 kW of solar PV installed across nine residential buildings, the enough to simultaneously power 70,000 5-watt LED light bulbs.
- Buildings in BPC use 30 percent less energy per square foot as compared to NYC buildings
- **ENERGY STAR scores, which will be posted as “letter grades” in building lobbies this year, vary widely across BPC** [buildings with scores of 85 or above receive an A]





Water

- There are water reuse systems serving six multifamily buildings in BPC, which helps reduce potable water consumption
- The Solaire was the first building in New York City to have on-site wastewater treatment
- BPCA uses some smart irrigation elements with sensors and remote access to reduce water use, and also uses treated blackwater to wash down equipment, the trash room, and the atrium at 75 Battery Place
- **Buildings in BPC consume more than 378,000 gallons of water per year, or enough to fill the Asphalt Green swimming pool over 1,100 times**





Waste

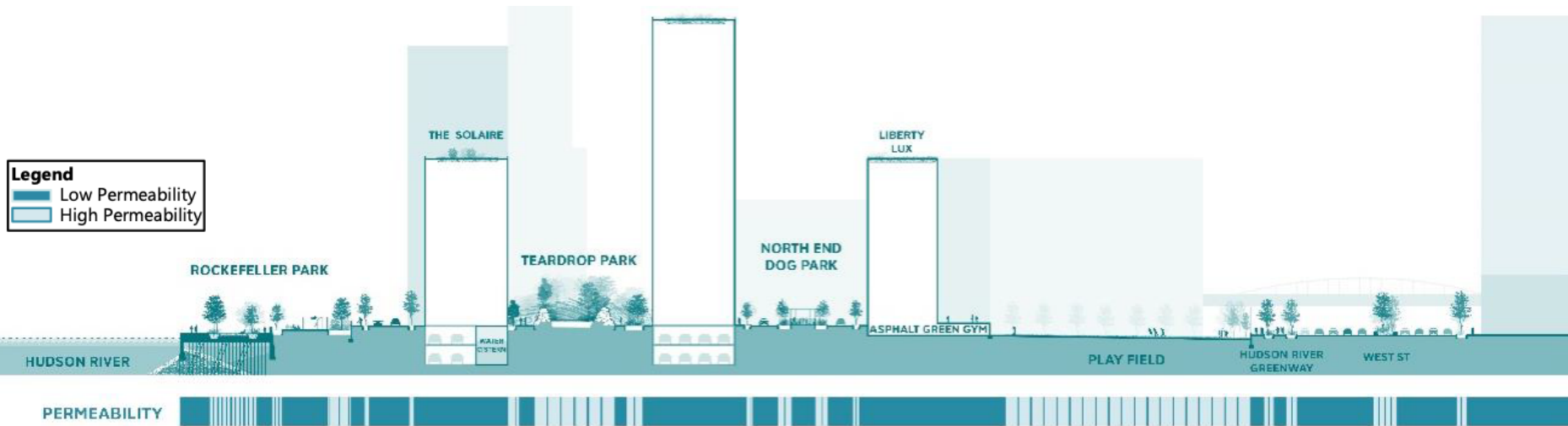
- It is estimated that 85 percent of waste generated in BPC is sent to landfills
- BPCA has a robust composting program at 75 Battery but building-level composting is assumed to be limited [except for Gateway Plaza]
- Most residential buildings in BPC send their waste to one of three trash compactors run by BPCA, instead of leaving it on the street for the Department of Sanitation to collect
- **A total of 46.2 million pounds of trash per year is estimated to be produced in BPC, two-thirds of which is generated by office buildings**





Site

- Approximately 15.3 acres of building space in BPC is used for parking, enough for over 2,500 cars
- There are 680 street trees in BPC, and Rockefeller Park alone has 285 species of plantings
- BPCA Parks Operations uses non-VOC paints, non-toxic cleaning products [e.g., soy-based] and environmentally friendly salt for snow melt [made of mash]
- The Esplanade “edge” is a flat bulkhead wall, which limits its potential to support marine life/ecosystems
- **Stormwater permeability** varies widely across BPC, and the north and south areas are on different stormwater systems—the south drains directly into the Hudson River



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Stuytown Curbside Composting

The **StuyTown Curbside Composting** project serves 30,000 people across 110 buildings. Each building has compost bins are emptied three times a week, diverting an estimated 20 percent of disposed organic materials.



NYC Shared Street

New York City's first "**Shared Street**" opened in 2017 in the Flatiron District, creating a slow-speed space shared by pedestrians, bicyclists, and motorists, improving visibility for all users, reducing vehicle emissions, and promoting active/non-motorized transport use.



Rewire Program

The **Rewire Program** at the University of Toronto changes attitudes and behaviors toward energy consumption, using themed outreach/learning modules with ambassadors from the existing social/organizational structures who have influence.



GREEN COMPUTER USE!

Office computers at UofT use 5 million kWh/year, which is enough to power 7431 average homes per year. Enable your power management settings and save up to 200 kg of CO₂e emissions per year.

YOU CAN MAKE IT HAPPEN BY:

- setting your monitor to turn off after 5 minutes
- setting double-sided printing as your default printing

Visit www.utoronto.ca for more information on computer settings or to get ahead on going beyond Rewire Level 1.
This poster is printed on 70% recycled paper.

ReWire

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Breakout Groups

What is important to you?

What ideas do you have?

**What general questions, concerns, comments
do you have?**

Breakout Groups

Defer judgement

Encourage wild ideas

Build on the ideas of others

One conversation at a time

Be visual

Go for quantity

Breakout Groups

Innovation & Smart Systems

Energy Materials & Waste Water

Quality of Life & Open Space

Parks & Open Space Environmental Quality & Health Transportation

Adapting BPC

Centralized Facilitation Changing the Built Environment Changing Behaviors

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Shareback

What did you discuss?

What patterns emerged?

What questions do you have?

What's Next?

Online Updates

We will be posting updates from the meetings and ongoing efforts on BPCA's website as well as through social media using the hashtag **#BPCGreen**

Survey

We will follow-up with you with a follow-up survey to complete as another way to share your input at www.surveymonkey.com/r/BPCgreen

Public Presentations

We will keep you informed when we present updates at the next public presentation