One New York: The Plan for a Strong and Just City
Since 2007, New York City’s Charter requires the Mayor to:

1. Analyze issues relating to:
   - housing,
   - open space,
   - brownfields,
   - transportation,
   - water quality and infrastructure,
   - air quality,
   - energy, and
   - climate change

2. Develop measurable sustainability indicators

3. Increase public awareness and education regarding sustainability

4. Study resilience of critical infrastructure, the built environment, coastal protection and communities

5. **Report on progress annually, with plan revisions every four years**
NYC Climate

- 2007: 127 initiatives
- 2011: 132 initiatives
- 2013: 223 initiatives focused on Hurricane Sandy recovery
- 2015: 201 initiatives
- 2019: Earth Day (Apr 22)

One New York: The Plan for a Strong and Just City
Climate Policy and Programs + many city departments

Mayor’s Office of Climate Policy and Programs
  - Mayor’s Office of Resiliency
  - Mayor’s Office of Sustainability

Buildings
City Planning
New York City Housing Authority
Citywide Administrative Services
School Construction Authority
Economic Development Corporation
Housing Preservation & Development
Design & Construction
Health & Hospitals
New York City joined 100 Resilient Cities in 2013.
8.6 million residents in 777 sq km (9.2 million people by 2050)
The 65+ age group will increase by 40% by 2040
Foreign-born population is 40% and will continue to increase
1 million buildings
Median building age citywide is 90 years

Source: One City Built to Last, 2016
1. Our Growing, Thriving City
2. Our Just and Equitable City
3. Our Sustainable City
4. Our Resilient City

One New York
The Plan for a Strong and Just City
Vision 1

Our Growing, Thriving City

New York City will continue to be the world’s most dynamic urban economy where families, businesses, and neighborhoods thrive
Industry Expansion
New York City will have the space and assets to be a global economic leader and grow quality jobs across diverse sectors.

Workforce Development
New York City will have a workforce equipped with the skills needed to participate in the 21st century economy.

Housing
New Yorkers will have access to affordable, high-quality housing coupled with robust infrastructure and neighborhood services.

Thriving Neighborhoods
New York City’s neighborhoods will continue to be thriving and well-served.

Culture
All New Yorkers will have easy access to cultural resources and activities.

Transportation
New York City’s transportation network will be reliable, safe, sustainable, and accessible, meeting the needs of all New Yorkers and supporting the city’s growing economy.

Infrastructure Planning & Management
New York City’s infrastructure and built environment will exemplify global economic, environmental, and social leadership.

Broadband
Every resident and business will have access to affordable, reliable, high-speed broadband service everywhere by 2025.
HOUSING:
NEW YORKERS WILL HAVE ACCESS TO AFFORDABLE, HIGH-QUALITY HOUSING COUPLED WITH ROBUST INFRASTRUCTURE AND NEIGHBORHOOD SERVICES

INDICATORS + TARGETS

- Accommodate **9 million households** within the region by 2040, an increase of 1.1 million
- Finance **construction** of 80,000 new affordable housing units and **preservation** of 120,000 affordable housing units by 2024
- Support **creation** of 160,000 additional new housing units by 2024 and at least 250,000 to 300,000 additional housing units by 2040

SOURCE: New York City housing and vacancy survey, 2014
New York City will have an inclusive, equitable economy that offers well-paying jobs and opportunities for all New Yorkers to live with dignity and security.
Early Childhood
Every child in New York City will be nurtured, will be protected, and will thrive

Integrated Government & Social Services
All New Yorkers will have access to high-quality, conveniently located, community-based City resources that promote civic engagement and enable them to thrive

Healthy Neighborhoods, Active Living
New Yorkers of all ages will live, work, learn, and play in neighborhoods that promote an active and healthy lifestyle

Healthcare Access
All New Yorkers will have access to the physical and mental healthcare services that they need

Criminal Justice Reform
Among large U.S. cities, New York will continue to be the safest and will have the lowest rate of incarceration, with a criminal justice system that leads the nation in fairness and efficiency

Vision Zero
New Yorkers will continue to embrace Vision Zero and accept no traffic fatalities on New York City streets
EARLY CHILDHOOD:
EVERY CHILD IN NEW YORK CITY WILL BE NURTURED, WILL BE PROTECTED, AND WILL THRIVE

INDICATORS + TARGETS
- Reduce infant mortality rate by 20% and dramatically decrease the racial and ethnic disparity
- All four-year-olds receive access to free, full-day, high-quality pre-kindergarten

New York City children born in 2013 are eligible to apply for free, full-day, high-quality pre-K.

nyc.gov/prek
Diverse NYC government

**Gender**
- NYC Government: 43% male, 57% female
- NYC Population: 48% male, 52% female

**Race**
- NYC Government: 39% White, 32% Black, 8% Asian, 1% Other, 1% Hispanic
- NYC Population: 33% White, 25% Black, 13% Asian, 28% Hispanic, 1% Other
New York City will be the most sustainable big city in the world and a global leader in the fight against climate change.
### Greenhouse gas emissions
By 2050, New York City’s greenhouse gas emissions will be 80% lower than in 2005

### Zero Waste
New York City will send zero waste to landfills by 2030

### Air Quality
New York City will have the best air quality of all large U.S. cities by 2030

### Brownfields
New York City’s land remediation practices support the use of its entire stock of land to its full potential

### Water Management
New York City mitigates neighborhood flooding and offers every neighborhood high-quality water services, and more water fountains

### Parks & Natural Resources
New York City’s useful, accessible, and beautiful outdoor or spaces benefit all New Yorkers
GREENHOUSE GAS EMISSIONS: NEW YORK CITY’S GHG’S WILL BE 80 PERCENT LOWER BY 2050 THAN IN 2005

INDICATOR + TARGET

Reduce the city’s **greenhouse gas emissions** by 80% by 2050 relative to 2005 levels

Drivers of GHG reductions to 80x50

<table>
<thead>
<tr>
<th>Indicator</th>
<th>2005</th>
<th>2013</th>
<th>Changes</th>
<th>2050</th>
<th>80x50 goal</th>
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<tbody>
<tr>
<td>Weather and growth</td>
<td>59.11</td>
<td>48.02</td>
<td>-19%</td>
<td>11.82</td>
<td>-80%</td>
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<td>Changes in use</td>
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<td>Changes in carbon intensity (steam and power)</td>
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<td>BAU growth</td>
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<td>Buildings</td>
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<td>Solid waste</td>
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Our Resilient City

Our neighborhoods, economy, and public services will be ready to withstand the impacts of climate change and other 21st century threats.
<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Neighborhoods</td>
<td>Every city neighborhood will be safer by strengthening community, social, and economic resilience</td>
</tr>
<tr>
<td>Buildings</td>
<td>The city’s buildings will be upgraded against changing climate impacts</td>
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<tr>
<td>Infrastructure</td>
<td>Infrastructure systems across the region will adapt to enable continue services</td>
</tr>
<tr>
<td>Coastal Defense</td>
<td>New York City’s coastal defenses will be strengthened against flooding and sea level rise</td>
</tr>
</tbody>
</table>
520 miles of coastline; more than Miami, Boston, San Francisco, Los Angeles combined
NEW YORK CITY PANEL ON CLIMATE CHANGE

- Leading climate and social scientists
- All projections subject to rigorous peer review
CLIMATE HAZARDS WE MUST PREPARE FOR

**Max wind speed**
- Increase from 80mph to 110mph by 2050s

**Coastal Storms**
- Surge + Wind

**Sea Level Rise**
- Up to 30 in sea level rise by 2050s

**Precipitation**
- 4-11% increase in avg. precipitation by 2050s

**Birmingham, Alabama-type heat & humidity**
- Heat waves by 2050s

**Cloudburst Storms**
- Inland flooding
COASTAL NEIGHBORHOODS EXPOSED DURING INTENSE STORMS

400,000 New Yorkers live in the floodplain, about the same population as New Orleans or Tampa.

2,400 buildings built in the current floodplain since Oct 2012
BLUE-SKY TIDAL FLOODING OCCURRING IN SOME COASTAL NEIGHBOHOODS ALREADY

- Storm Water Runoff
- Saltwater Flow
- Ocean Pressure Backs Up Pipes
SEA LEVEL HAS Risen 1.1 FEET (34 CM) SINCE 1900, NEARLY TWICE THE GLOBAL AVERAGE

Observed sea level rise at Battery Park
HIGH TEMPERATURES POSE THE GREATEST IMMEDIATE RISK TO LIFE AND SAFETY

U.S. fatalities by hazard, 2006-2015

Cool Neighborhoods NYC, 2017
NEIGHBORHOOD AND BUILDING CHARACTERISTICS EXACERBATE HEAT WAVES

Physical environment and demographics overlap in disadvantaged neighborhoods

Source: Cool Neighborhoods NYC, 2017
HEAT WAVES ARE RISKIEST FOR THE ELDERLY, POOR AND SICK

Indoor temperatures can be 20°F hotter than outdoor temperatures in the absence of air conditioning.

85% of heat-related deaths occur after exposure to heat inside the home.
EXTREME RAIN RISK IS A YEAR-ROUND THREAT IN NYC

Cloudbursts can overload storm drainage systems, causing inland flooding.
201 initiatives, each assigned to **lead agencies** (and supporting agencies, when applicable)

- **Prioritized** by impact, ease of implementation, and cost
- **Status** (e.g., on track, completed milestones, accomplishments to date)
- **Indicators** (and progress towards targets)

Funding through **Ten-Year Capital Strategy** and **Executive Budget** (released on May 7th)
IN 2025, NEW YORK CITY WILL CELEBRATE ITS 400TH ANNIVERSARY

Our Growing, Thriving City

Our Just and Equitable City

Our Sustainable City

Our Resilient City