

OneNYC 2050

BUILDING A STRONG
AND FAIR CITY

VOLUME 1 OF 9
APRIL 2019



THE CITY OF NEW YORK
MAYOR BILL DE BLASIO

DEAN FULEIHAN
FIRST DEPUTY MAYOR

DOMINIC WILLIAMS
CHIEF POLICY ADVISOR

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NYC



OneNYC

NYC's Green New Deal

Daniel A. Zarrilli

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**CBIPS Lecture Series: Putting Climate at the
Heart of Covid-19 Recovery**

May 26, 2020

Visit nyc.gov/OneNYC to learn more
Join the conversation by tagging **#OneNYC**

Ongoing COVID-19 Crisis

We have lived through unbelievable trauma from the coronavirus crisis in New York City...



Ongoing Impacts to New Yorkers

- Staggering loss of life
- Strains on the health care system
- Jobs and small business losses and start of larger economic downturn
- Impacts to retail, tourism, creative, and service workforce
- ...and more...

This will continue to require short-term health and economic response and recovery programs, **plus a thoughtful reactivation in New York City after the 'pause.'**

First things first. Stay home.

Practice social distancing, wear your mask, and stay at least 6 feet away from others.



For more information:

- *Visit nyc.gov/coronavirus*
- *Text COVID to 692-692*

OneNYC 2050: NYC's Green New Deal

In April 2019, New York City took stock of the many challenges facing our city and laid the foundation for transformational change...



Confronting our **climate crisis** and preparing for growing risks



Addressing **health and wealth inequities** across the city



Bringing **all New Yorkers** into the civic life of the city

OneNYC 2050: NYC's Green New Deal

...by setting a positive vision for our city, and launching the actions now that will put us on the long-term road to achieving our goals.



Global Threats: A Climate Emergency

We've already seen the impacts of global warming here in New York City...



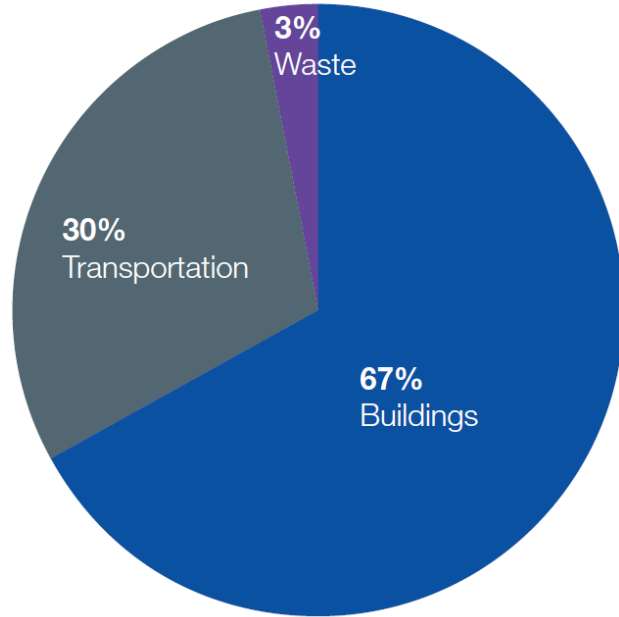
...and it will only get worse.

The NYC Panel on Climate Change projects that by 2050, NYC will face much **greater climate impacts**, including:

- 4.1–5.7°F increase in average temperature
- 4–11% increase in average annual precipitation
- 1–2 ft. likely rise in sea levels, though sea level rise may be up to 2.5 ft.
- Triple the number of days above 90°F

Global Threats: A Climate Emergency

...And New York City still has much work to do across all sectors to slash its emissions...

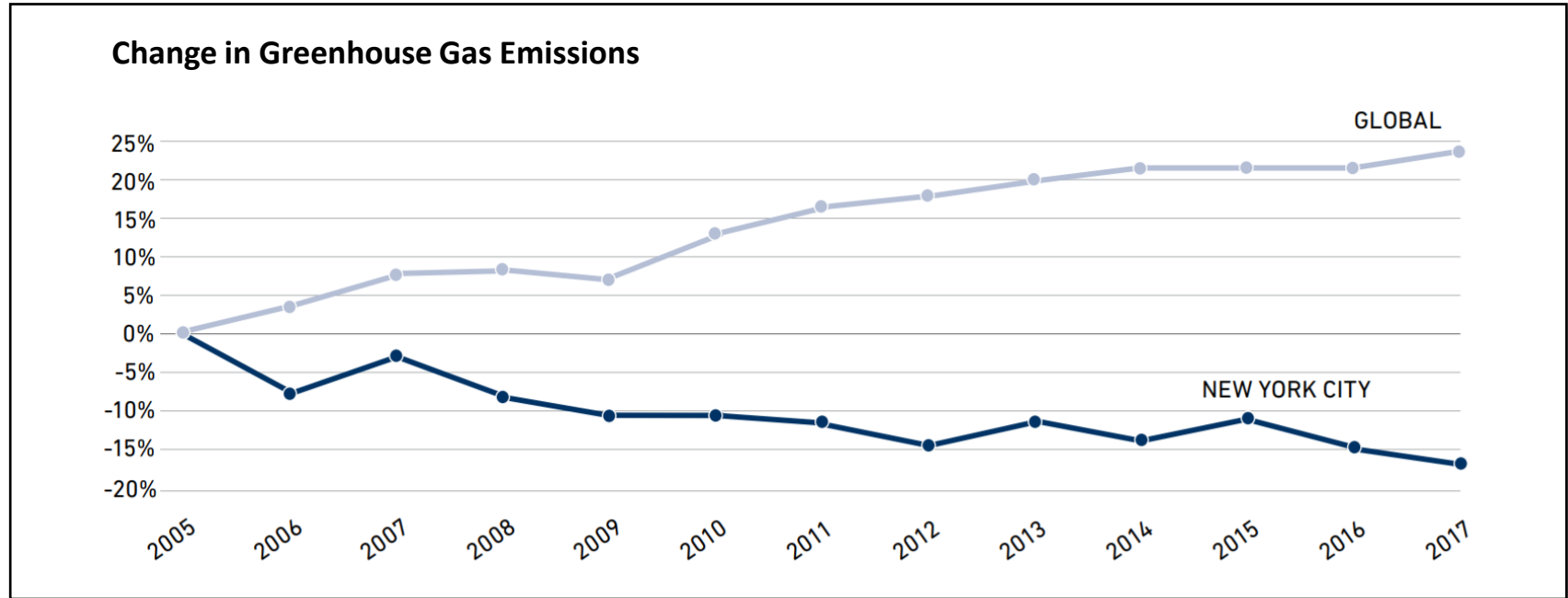


NYC's Greenhouse Gas Emissions:

- Heat and hot water account for over half of building sector emissions
- Private vehicles account for 90% of transportation sector emissions
- Landfill methane accounts for the bulk of waste sector emissions

Global Threats: A Climate Emergency

...and while New York City's greenhouse gas emissions have peaked, global emissions continue to rise...



The Path Forward

Addressing these challenges will require new ways to **confront our climate crisis**, achieve equity, and strengthen our democracy.



Achieve Carbon Neutrality

- **Secure 100% clean electricity**
- Retrofit buildings
- Implement congestion pricing

Strengthen Resiliency

- Deliver coastal protection projects and heat mitigation measures

Fight for Climate Accountability and Justice

- Divest from fossil fuels
- Increase civic engagement/climate literacy

Create Economic Opportunities

- Invest in climate solutions that create jobs

Getting to 100% Clean Electricity

Let's look at what it means to end our reliance on fossil fuels with **100% clean electricity**.



From OneNYC 2050:

“We must achieve carbon neutrality... by 2050.

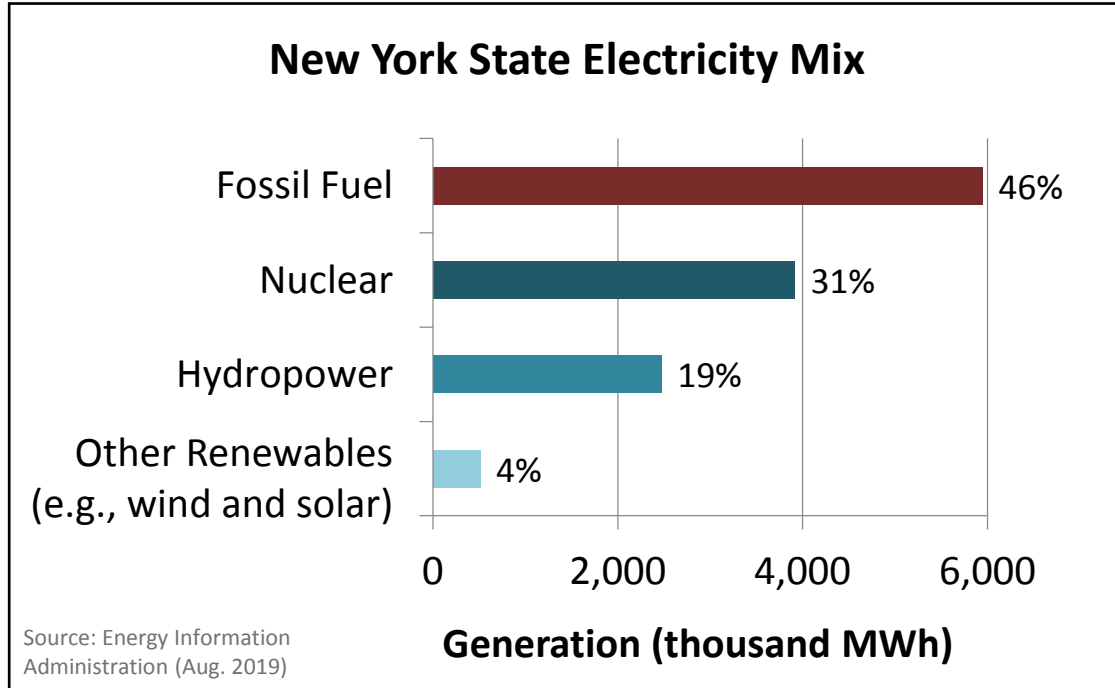
This will require a radical shift to end our reliance on fossil fuels...

...transform the city's buildings, energy, transportation, and waste sectors...

and fully electrify the city.”

New York City's Current Power Supply

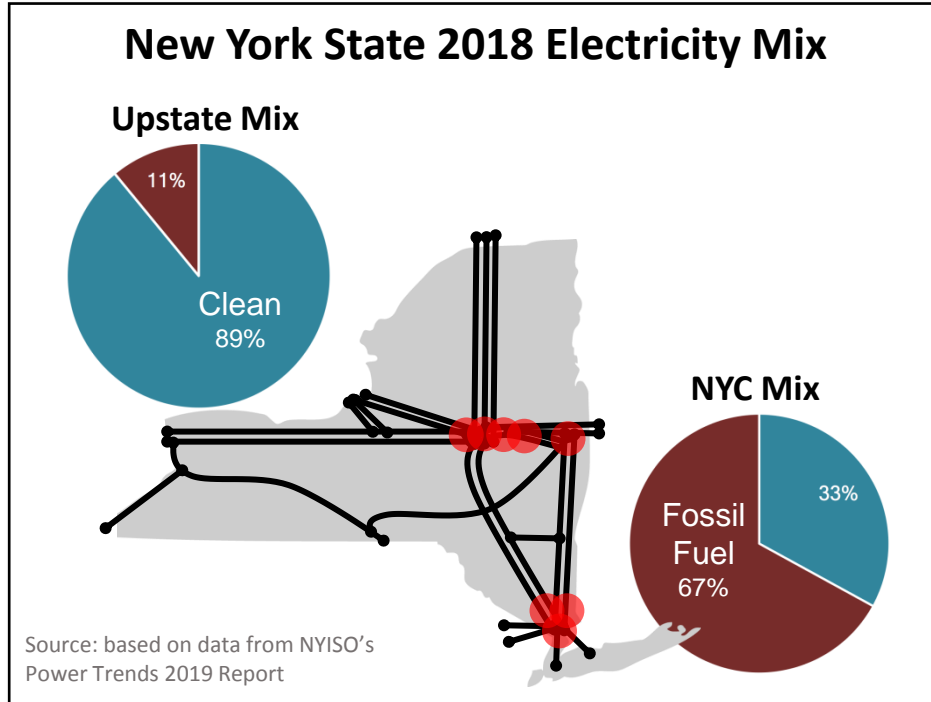
The State's electricity mix is currently far too dependent on fossil fuels...



Nearly half of New York State's electricity comes from fossil fuels, **almost all generated from natural gas** in particular.

New York City's Current Power Supply

...and the use of fossil fuels is even more prevalent in the City...

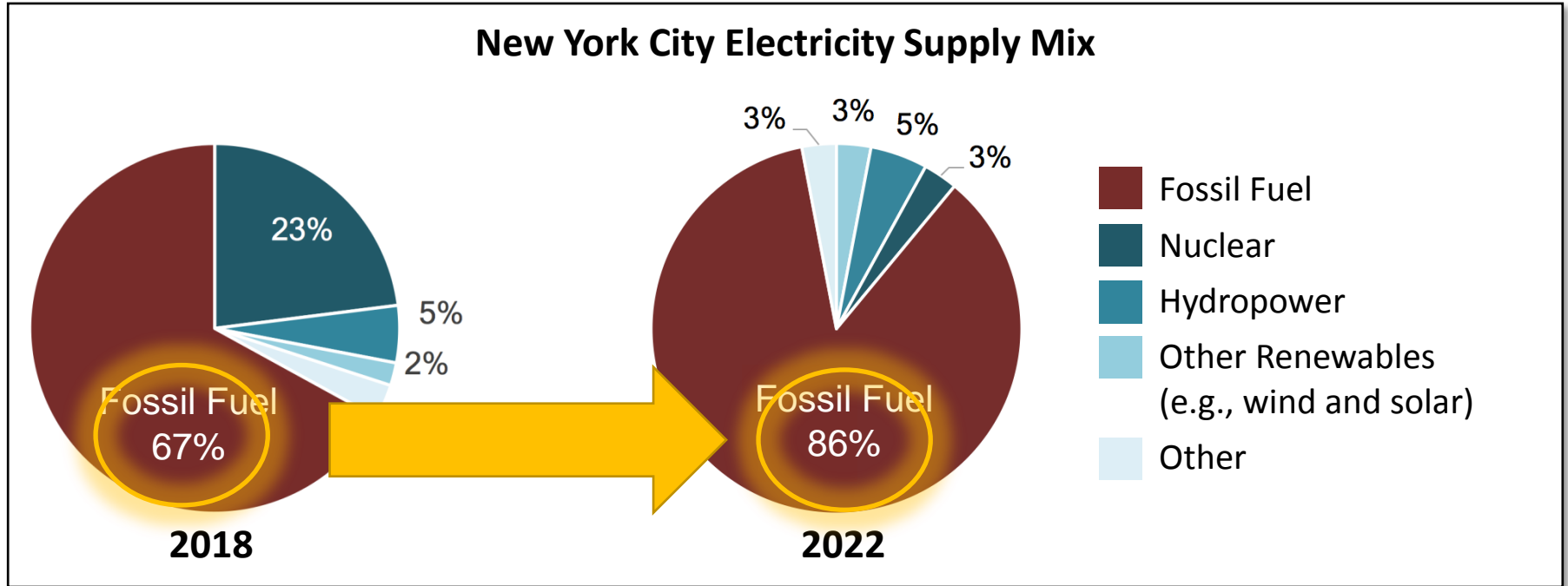


Intense congestion in the state's transmission network and **requirements for in-city generation** make it hard to bring clean energy to the City.

As a result, **two-thirds of our electricity comes from fossil fuels.**

New York City's Current Power Supply

...while the closure of Indian Point will, in the near-term, shift the city's energy sources even more toward fossil fuels, with *negative pollution and air quality impacts*.



Getting to Carbon Neutral

That's why Mayor de Blasio has committed to securing clean electricity as part of our comprehensive carbon neutrality strategy in OneNYC 2050...



NYC's world-leading climate policy:

- Cutting energy use through building retrofits, **creating thousands of jobs**
- Divesting from fossil fuels
- Supporting local investments in renewables, such as rooftop solar and wind
- Stopping projects like the Williams pipeline
- Investing in sustainable transportation
- ...and more!

Getting to Carbon Neutral

...And new measures as part of the 2020 State of the City.



Doubling Solar

- New programs to defray upfront costs of rooftop solar, **creating thousands of jobs** and **doubling solar** in the city

Supporting Offshore Wind

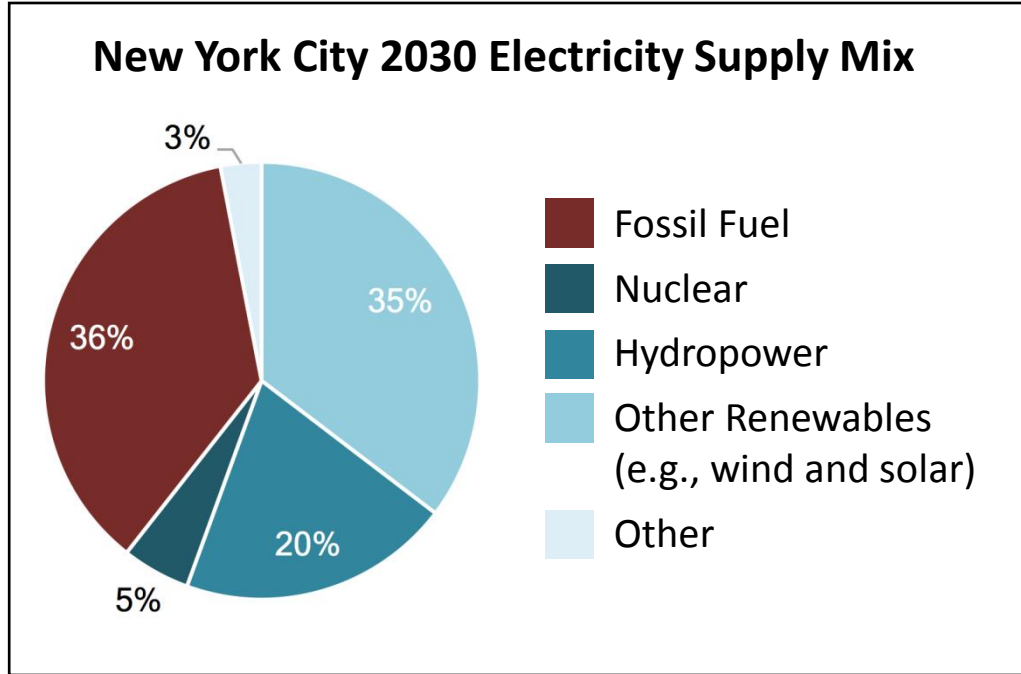
- Equip the South Brooklyn Marine Terminal in Sunset Park as a **new hub for staging, installing and operating turbines** across the region

Stopping New Fossil Fuel Infrastructure

- **Stop any new infrastructure** that would expand the supply of fossil fuels in our city

Getting to Carbon Neutral

Even with all that, maximizing solar and wind potential would only account for less than 35% of our total annual electricity needs by 2030.



Including bold action to achieve

Additional energy efficiency

4,500 MW of offshore wind

1,000 MW of in-city solar

1,000 MW of Canadian hydro

800 MW of storage

Why Hydropower?

Canadian hydropower is a necessary part of NYC's comprehensive renewables strategy and we are committed to securing that contract by the end of this year.

Key Benefits of Hydropower

1

Clean, reliable hydropower will support additional renewable by providing **clean baseload power**

2

Offsetting local gas power plants will reduce citywide GHGs, and **improve local air quality**

3

New transmission into the City will provide **energy resiliency benefits** and blackstart capabilities

4

*Using existing hydropower, NYC will provide **over 1 GW of clean electricity by 2024***

Why Hydropower?

As New York City pursues this option, we are committed to making sure that hydropower is fair for all stakeholders.



Respect the rights of First Nations

- NYC delegation to Quebec
- Regular dialogue with First Nations

No new dams to support New York City

- Existing hydropower is available
- No new inundation needed

The (un)Natural Gas Alternative

Failure to secure enough clean electricity simply means that we will end up with more gas. We can't let that happen.

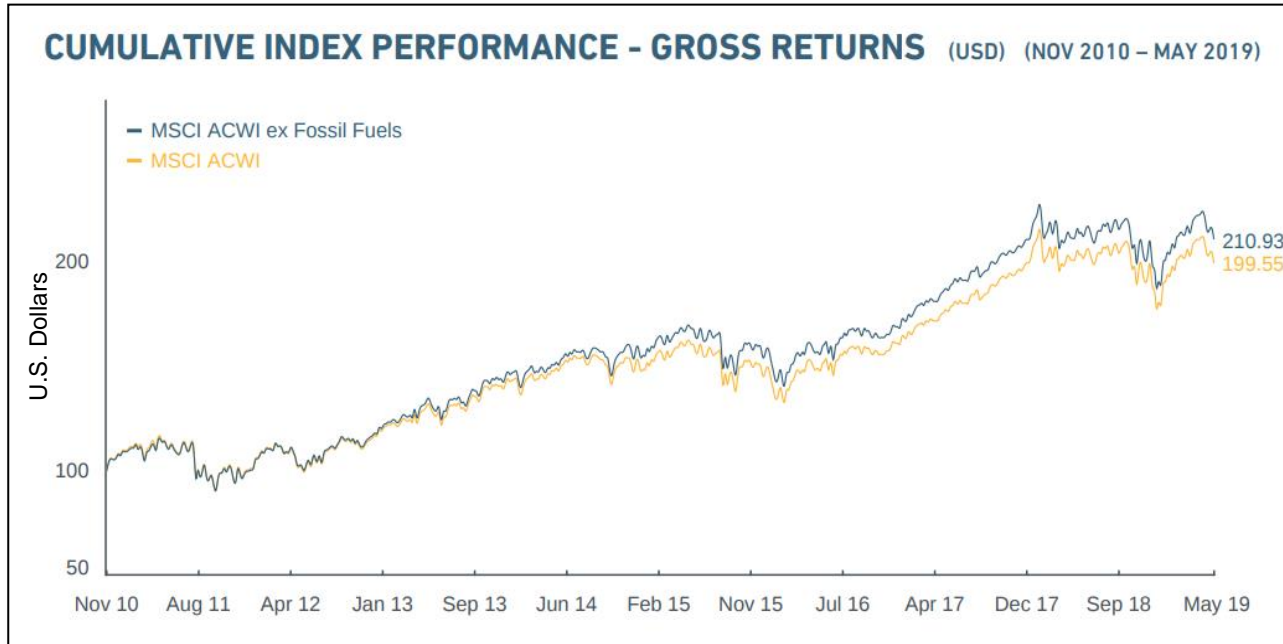


Let's make gas the loser.

NYC's in-city generation burns harmful fossil fuels and is disproportionately located in and near marginalized communities, creating **environmental injustice.**

Fossil Fuel Divestment

Ending the age of fossil fuels also means aligning our investments - divestment is not just the right thing to do, it is the financially responsible action for retirees.



Source: MSCI ACWI ex Fossil Fuels fact sheet

Fossil fuel securities have **consistently underperformed**, and the outlook continues to be poor

Fossil Fuel Divestment

New York City is committed to climate accountability and a just transition; we are divesting from fossil fuels and also investing in climate solutions...

Divestment

- Committed to be the **first major US city or state to divest** its pension funds from fossil fuels, with **\$5 billion** divested by 2022

Investment

- NYC will **double** our current investment in job-creating **energy efficiency, renewable energy, and climate solutions**, to reach **\$4 billion** or **2% AUM** by 2021



Fossil Fuel Divestment

...And we've joined with London to share our work on fossil fuel divestment with other cities and investors...

As New York and London mayors, we call on all cities to divest from fossil fuels



In partnership with:



Fossil Fuel Divestment

...By developing toolkits and other resources to promote fossil fuel divestment.

- New toolkit released in January
- An online 2020 Divest/Invest Forum Workshop held in March
- Committed cities include Boston, Copenhagen, Los Angeles, Cape Town, Pittsburgh, Durban, Paris, and more!



COVID-19: A Fair (and Green!) Recovery

New York City can build a better, more sustainable, and fairer society out of this recovery.



*“The only parallel to what we're facing right now is the Great Depression. Against that kind of challenge, **half-measures that maintain the status quo won't move the needle** or protect us from the next crisis. We need a New Deal for these times – a **massive transformation that rebuilds lives, promotes equality, and prevents the next economic, health, or climate crisis.**”*

– Mayor Bill de Blasio

C40 Recovery Principles (abridged):

- The recovery should not be a return to ‘business as usual’ - or a world on track for 3°C
- The recovery must be guided by an adherence to public health and scientific expertise
- Excellent public services, public investment, and community resilience - the basis for recovery
- The recovery must address issues of equity laid bare by the impact of the crisis
- Climate action can help accelerate economic recovery, create jobs, and enhance environmental justice
- The recovery must improve the resilience of our cities and communities
- Our collective voices and individual actions must ensure that national governments and international institutions support the investments needed in cities to deliver an economic recovery that is healthy, equitable and sustainable

The Path Forward

We must act now to secure a livable future for the next generation.



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