



***2021 Renewable Energy Forum:
Role of Hydrogen***
Tuesday, November 9, 2021
10am-12pm

Introduction by April McIver, Esq.
Executive Director



Agenda

- ❖ **10:00am: Introduction by Executive Director April McIver, Esq.**
- ❖ **10:05am: Presentation by Neil Skidell (moderator)**
- ❖ **10:15am–10:40am: Speaker Presentations**
 - **Senator Kevin Parker**
 - **Gavin Donohue**
 - **Dr. Devinder Mahajan**
 - **Jennifer Kearney**
 - **Paul Schwartz**
- ❖ **10:40am: Moderated Panel Discussion**
- ❖ **11:30am: Audience Q/A**



Today's Presenters

- **Neil Skidell, Managing Director of Par Plumbing (MODERATOR)**
- **New York State Senator Kevin Parker (D, WF), 21st S.D., Chairman of Committee on Energy and Telecommunications**
- **Gavin Donohue, President and Chief Executive Office of Independent Power Producers of NY, Inc. (IPPNY) & Appointee of NYS Climate Action Council**
- **Devinder Mahajan, Professor and Graduate Program Director (CME) at Advanced Energy Center, Stony Brook University**
- **Jennifer Kearney, Executive Partner of Gotham360**
- **Paul Schwartz , Co-Founder & Director, ThermoLift**



Background of NYC/NYS Laws*

- **2007** - NYC Climate Protection Act, Local Law 55 of 2007 amended the administrative code of the city of New York, in relation to reducing greenhouse gas emissions
- **2008** - Local Law 22 of 2008 amended the administrative code of the city of New York, in relation to reducing greenhouse gas emissions and the repeal of local law number 55 for the year 2007.
- **2014** - Local Law 66 of 2014 (80x50 law) amended the administrative code of the city of New York, in relation to reducing greenhouse gases by eighty percent by two thousand fifty.
- **2019 - NYC Climate Mobilization Act**
 - Buildings Mandate: Local Law 97 (LL97) requires buildings larger than 25,000 square feet to meet ambitious carbon reduction targets, starting in 2024. The Department of Buildings provides guidance on compliance and reporting for LL97. The GHG Emission Calculator estimates a building's carbon penalty as a result of non-compliance with NYC Local Law 97 (2019). Input annual utility information and building characteristics to generate emissions thresholds and resulting estimated penalties for three major penalty periods (2024-2029, 2030-2034, and 2035 and later).
 - Green Roofs: Local laws 92 and 94 require all new buildings and buildings undergoing major roof renovations to be covered with solar panels, green roofs, or some combination of the two. The laws also require all buildings to reduce urban heat hazards.
 - Building Energy Efficiency Grade: Local Law 95 amends the ranges for how energy efficiency grades are calculated as required by Local Law 33 of 2018. Local Law 33 of 2018 required the display of energy efficiency scores and grades for buildings required to annually benchmark their energy and water consumption. The energy label will be displayed near a public entrance and include both a letter grade and the energy efficiency score.
 - PACE: Local Law 96 establishes long-term, low-interest Property-Assessed Clean Energy (PACE) financing to fund upgrades to building energy and water efficiency.



Background of NYC/NYS Laws cont'd*

- 2019 - NYS Climate Leadership and Community Protection Act was passed by the NYS Legislature in 2019 and sets forth ambitious goals: by 2040, achieve 100% zero-emission electricity and by 2050, reduce emissions at least 85% below 1990 levels
- 2021 - *Proposed Gas Ban Bills*:
 - NYC Council (Intro. No. 2317) was introduced by Council Member Alicka Ampry-Samuel in spring 2021 following Mayor Bill de Blasio's announcement that he would ban new gas hookups in the City. The effective date of this bill is two years from the date of enactment.
 - The NYS Senate also introduced S.6843A (Assembly bill # pending), the "All-Electric Building Act," which prohibits municipalities from issuing a permit for the construction of any new commercial, residential, or mixed-use mixed fuel building that submitted their initial application on or after December 31, 2023, except when such all-electric building is proven to be infeasible.

New York's Nation-Leading Climate Targets

85% Reduction in GHG Emissions by 2050

100% Zero-emission Electricity by 2040

70% Renewable Energy by 2030

9,000 MW of Offshore Wind by 2035

3,000 MW of Energy Storage by 2030

6,000 MW of Solar by 2025

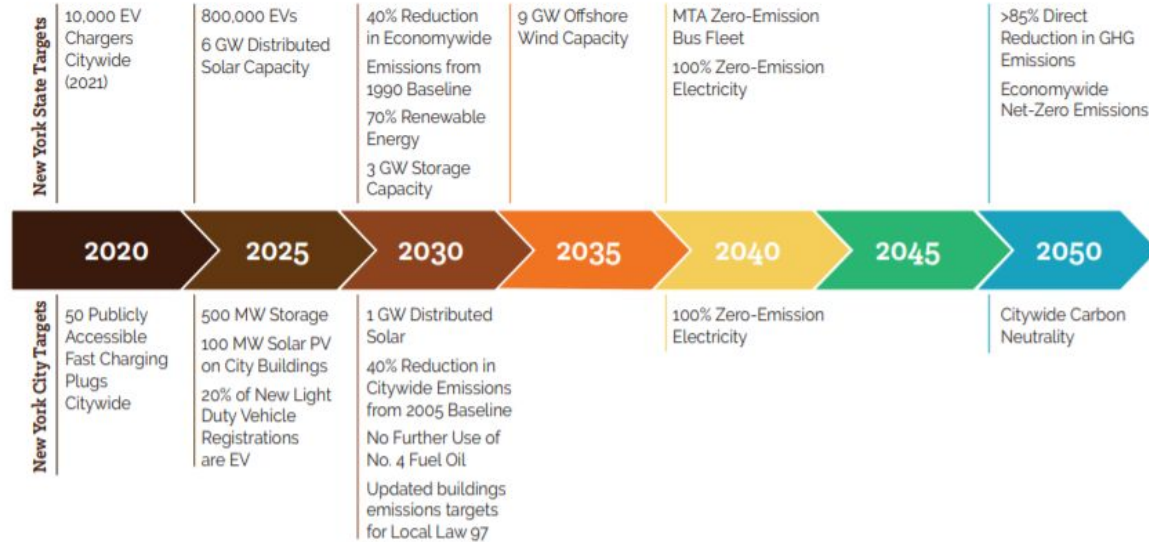
22 Million Tons of Carbon Reduction through Energy Efficiency and Electrification

Source: Climate Act, *available at* <https://climate.ny.gov/> (last visited Oct. 26, 2021)



Timeline of Goals

FIGURE 1: NEW YORK CITY AND STATE CLIMATE TARGETS



New York City and New York State have made ambitious climate goals for 2050, accompanied by sector- and technology-specific interim targets.



Resources

- www.plumbingfoundation.nyc
- <https://legistar.council.nyc.gov/LegislationDetail.aspx?ID=4966519&GUID=714F1B3D-876F-4C4F-A1BC-A2849D60D55A&Options=ID%7cText%7c&Search=2317>
- <https://legistar.council.nyc.gov/LegislationDetail.aspx?ID=3903481&GUID=563BDAD8-FD7F-46DC-8680-9CEAD93B29AA&Options=ID%7cText%7c&Search=97>
- <https://www.nysenate.gov/legislation/bills/2019/s6599>
- <https://www1.nyc.gov/assets/sustainability/downloads/pdf/publications/Carbon-Neutral-NYC.pdf>
- [https://www1.nyc.gov/site/nycaccelerator/resources/nyc-climate-goals-and-legislation.page#:~:text=Climate%20Mobilization%20Act&text=It%20consists%20of%20a%20slate.carbon%20in%20New%20York%20City.&text=Local%20Law%2097%20\(LL97\)%20requires.reduction%20targets%2C%20starting%20in%202024](https://www1.nyc.gov/site/nycaccelerator/resources/nyc-climate-goals-and-legislation.page#:~:text=Climate%20Mobilization%20Act&text=It%20consists%20of%20a%20slate.carbon%20in%20New%20York%20City.&text=Local%20Law%2097%20(LL97)%20requires.reduction%20targets%2C%20starting%20in%202024)
- <https://www1.nyc.gov/site/sustainability/regulations/climate-change.page>
- <https://council.nyc.gov/data/green/>
- <https://www.nytimes.com/2021/10/06/climate/biden-nepa-environmental-law.html>
- <https://climate.ny.gov/>
- <https://www.nysenate.gov/legislation/bills/2021/s6843/amendment/a>

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...THE ROLE OF HYDROGEN?

