Mayor's Office of Climate & Environmental Justice

NYC Clean Construction Transition

Off-road Decarbonization Symposium 2024

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Clean Construction Policy Context in NYC

PlaNYC (2023)

- Reduce the carbon footprint of the construction industry by 50% by 2033
 - Action: Implement performance-based standards for low carbon materials and equipment by 2025

EO 23 (2022)

 Requires City capital project agencies to commit to lower embodied carbon from municipal construction projects, including making their "best efforts" to use electric construction equipment



C40 Clean Construction Accelerator

Assesses the impact our choice of materials and construction design will have on our cities' overall resilience to climate impacts.

Commitments

- Use municipal purchasing power to demand zero-emission construction equipment in municipal projects starting in 2025, where technology is available.
- Require zero emission construction sites citywide by 2030, where technology is available.





The Construction Challenge in North America

- As our cities continue to develop, communities are faced with localized health and air quality hazards associated with construction.
- Fossil fuel-burning construction equipment emits pollutants such as carbon dioxide, carbon monoxide, and particulate matter (PM2.5 and PM10) and endangers people's respiratory health on construction sites and in surrounding neighborhoods.
- This equipment also contributes to neighborhood-wide noise pollution, which affects the health of construction workers and neighborhood residents alike.





The Equipment Challenge in North America

- Availability: Although there is a robust market and infrastructure for electric construction equipment in certain cities around the world, the market needs significant growth in North American cities.
- **Cost:** With limited availability, upfront and lifetime incremental costs are largely unknown.
- Coordination: Lack of communication between cities and industry stakeholders to understand what is currently on the market in North America.
- **Planning:** Cities cannot plan proactively with utilities to ensure power is available to sites without understanding current and upcoming availability.





North American Electric Construction Coalition

- As a coalition, signatories can spur significant market growth of the electric construction equipment industry.
- Leverage our role as leaders to build industry partnerships and create opportunities to develop the market for electric construction equipment.
- As suppliers increase market availability, signatories would intend to purchase and/or use electric construction equipment on our projects wherever applicable.

"We call on suppliers to increase the availability of electric construction equipment and its supporting infrastructure and engage with this coalition in a dialogue to discuss:

- The state of the North American market for electric construction equipment,
- The challenges faced in transitioning away from fossil-fuel construction equipment, and
- The solutions to increase the use of cost-effective electric construction equipment in North America."





Climate Week 2024

 Launch North American
Electric
Construction
Coalition

Early 2025

- Industry Roundtable to deepen market awareness and collaboration
- Understand current market development timelines and currently available equipment

Mid-2025

- Forge partnerships for pilot and demonstration projects in coalition cities and with supporting partners
- NYC DCAS Fleet Show should showcase electric construction equipment

Climate Week 2025

Share out coalition progress publicly!

