SKANSKA

# Sustainability is Still Advancing, and at Scale

**Myrrh Caplan**, US SVP, Sustainability

# Skanska in the US:

**28**
offices

**6,400**
employees

**$6.9 billion**
2023 revenue (construction)


**$3+ billion**
total invested in commercial/multi-family

# Skanska globally:

**135+**
years in operation

**26,000**
employees

**$15 billion**
2023 revenue

**Nasdaq OMX**
listed


## We build for a better society

- Investment Properties
- Construction
- Residential Development
- Consulting
- Commercial Development


# Expectations on what the built environment can do (and should do) have changed

# Sustainability Services Offerings

## CARBON

Decarbonization Analysis
Decarbonization Strategy
System and Envelope Evaluation
EC3 Analysis of Materials
Carbon Footprinting

## ESTIMATING

Expanded estimates /
sustainability goal vetting

## SUPPLY CHAIN

Material Analysis
Material Tracking/Reporting
Supplier Training
Procurement Planning

## CERTIFICATION ADMINISTRATION

Living Building Challenge
LEED | WELL | Envision
Parksmart | CORE/Petal
Fitwel | SITES | EarthCraft
Net Zero | WELL Health-Safety

## EFFICIENCY/RESILIENCE

E&R Analysis
E&R Strategy
Envelope Evaluation
Code Interpretation

## ORGANIZATIONAL CHANGE

Progress Analysis
Create Guidance Document(s) and Plan
Conduct Charrettes/Workshops
Provide Training
On-call CSO

# Sustainable Impact Areas

## Responsibility


A responsible business for people and planet

## Climate

Transformative solutions for a climate-smart built environment

## Resilience

Healthy resilient places for all

## Responsibility


A responsible business for people and planet

- EHS
- ETHICS
- SUPPLIER DIVERSITY
- EMPLOYEE HEALTH

## Climate

Transformative solutions for a climate-smart built environment

- ELECTRIFICATION
- ALT FUELS + USE REDUCTION
- CIRCULARITY
- REGENERATION

## Resilience

Healthy resilient places for all

- QUALITY
- DURABILITY
- METHODOLOGY
- OCCUPANT/USER HEALTH

- SUSTAINABLE BUILDING
- INCLUSION + DIVERSITY
- COMMUNITY

# 2022 Diversity and Inclusion Annual Report

*Executive Summary*

Skanska USA Building Inc.

## Our Commitment

**We are committed to an inclusive culture that respects our people, builds strong teams and enhances our performance.**

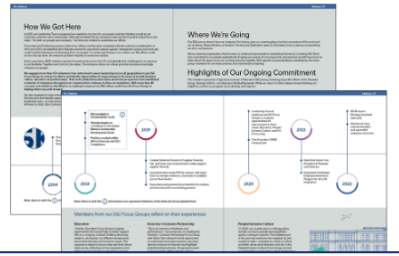
Within every layer of our organization—from the jobsite to the executive team—we're committed to creating an inclusive culture, amplifying different voices and respecting other points of view. We know that the projects we build contribute to our communities and the environment around us, and we believe our business must do the same.

## Our History

Across 19 years of intentional effort, Skanska USA Building (Skanska) has come far on our D&I journey. But there is much more we can and should be doing. In taking a brief look back to recognize our achievements, we can learn from them and continue our forward momentum.

In 2019, our Leadership Team recognized we needed to do more for our people and their families as well as our customers, partners and communities. Although we listed D&I as a business need and discussed its importance and value, we needed to dig deeper.

From internal D&I listening sessions and work co with an external consulting firm in 2019 and 202 identified what Skanska stands for and what it st against. Subsequent actions and work could only by listening to and learning from our people.




### D&I Focus Groups

More than 150 volunteers joined Focus Groups ce

*Results from our D&I Focus Groups*

**150+**
Volunteers from entry level to senior leadership across the U.S. reviewed our efforts and identified opportunities for improvement

**40+**
Concepts and initiatives identified to improve our D&I culture

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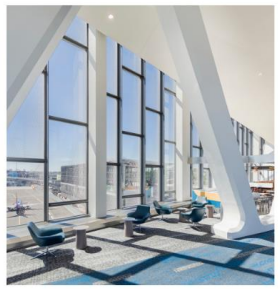


### LaGuardia Airport Terminal B Redevelopment

The LaGuardia Airport Terminal B Redevelopment Project in New York City is one of the most complex projects we've ever undertaken. Working together, Skanska USA Building and Civil and our joint venture team developed and executed a multi-phase construction plan that allowed for the ground-up construction of a new terminal on a small geographic footprint, all without disrupting the existing facility's operations.

**$984M**
in contracts awarded to 305 MWDBE firms by the Skanska-led joint venture team

**$664M**
in contracts awarded to 147 Locally Based Enterprise (LBE) firms

### Lawrence E. Boone Elementary School

The $52.4 million elementary school renovation created an 83,000-SF, LEED® Platinum certified, 21st century learning environment in one of the most disadvantaged neighborhoods in Washington, D.C.

**50%**
of the project workforce were D.C. residents

**56%**
of the subcontract spend went to D.C.-based MWDBEs


## D&I Strategy

Skanska USA Building's D&I Strategy ensures our efforts are sustainable and embedded in our business. It serves as a framework that reinforces our approach to D&I and provides guidance to our teams in support of their efforts.

Our people shape our culture.

Our culture drives our inclusion.

Our inclusion positively impacts our society.

### Our Foundation

Authentically anchor and evolve our why as a business imperative, building a solid foundation that will enable sustainable change.

### Our People

Recruit, retain and develop an inclusive workforce, where people are cared for and can be their best selves. Our people are the drivers
ure.

### Our Impact

Share and elevate the evolution of our efforts.

### Construction Management Building Blocks™ (CMBB)

**800+**
MWDBE firms have graduated from our free CMBB program.

Launched in 2007, Skanska's CMBB program equips MWDBE participants with the knowledge and tools to thrive in the construction industry. Taught by Skanska team members and other industry professionals, the program covers topics ranging from preconstruction and HR to risk management.

**University of South Florida (USF) partners with Skanska on CMBB**
In Tampa, Florida, we partnered with USF on a CMBB program called the USF Mentor Protégé Program, which completed its second year in 2022. Upon graduating, each participant received a Skanska mentor and was offered a scholarship for a financial management program led by the Muma College of Business Small Business Development Center.

"I was ecstatic to be chosen for the USF Mentor-Protégé Program. The training has given me the confidence to take on larger projects because the mentors taught us how to break projects down, not let the numbers overwhelm us, and seek out the proper subcontractors to assist us. Thanks to this training, I know my company is going to grow."

**Darrick Fullwood**
Owner, AAA Restoration & Builders Team LLC

### D&I and Sustainability

While Skanska actively supports all the United Nations Sustainable Development Goals (UNSDGs), we've identified seven where our business will have the most impact.

*Read Skanska's Annual and Sustainability Report 2022*

### Renewable resources, renewing lives

The Kendeda Building for Innovative Sustainable Design at Georgia Tech (The Kendeda Building) is the first educational facility in the Southeast to earn The Living Building Challenge v3.1 certification. While renewable resources were at the heart of its construction, the strategy didn't stop with building materials.

## Inclusion + Diversity

# Responsibility



# 1550 on the Green

- 32% less energy use than typical building
- Utilizing District Cooling
- Demand Control Ventilation and Energy Recovery Unit
- 60% reduction in embodied carbon via EC3 tool

**100%**
AIR EXCHANGE
in an hour (upon request)

**30%**
MORE FRESH AIR
than a typical Class A building

Bipolar Ionization
& Air Filtration
REDUCED AIRBORNE PATHOGENS

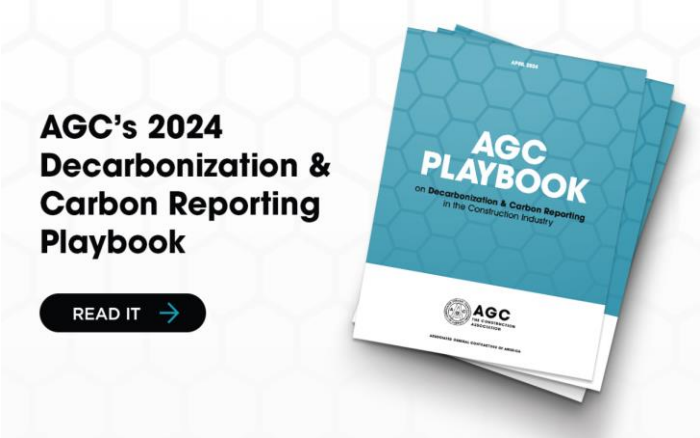
## Resilience

# Climate

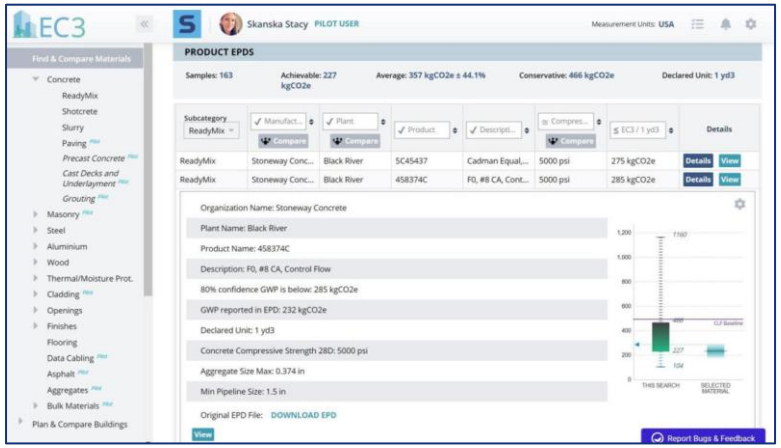

STARBUCKS COFFEE
intel
salesforce
BAYER
facebook
IBM
SKANSKA
pwc
Takeda
Abbott
TESLA
P&G
Procter & Gamble
Marriott
ZURICH
target
amazon
Microsoft
MERCK
ORACLE
hp
NIKE
Tenet Health
Bank of America
AMGEN
BOEING
JABIL
Walgreens
DELTA
FedEx
Chevron
American Airlines
Raytheon Technologies
Roche
Lilly
THE HOME DEPOT
Bristol Myers Squibb™
ThermoFisher SCIENTIFIC
NOVARTIS
Disney
at&t
Alphabet
HARVARD
Johnson & Johnson
UNIVERSITY of VIRGINIA
UNIVERSITY of WASHINGTON
Southwest
PRINCETON UNIVERSITY
LOWE'S

# Climate

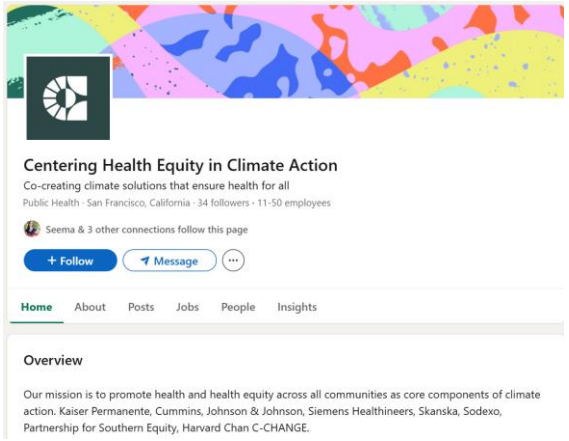
## Industry-level Leadership




https://www.agc.org/climate-change-playbook




EC3 at https://www.buildingtransparency.org




https://www.linkedin.com/company/centering-health-equity-in-climate-action1/

## Equipment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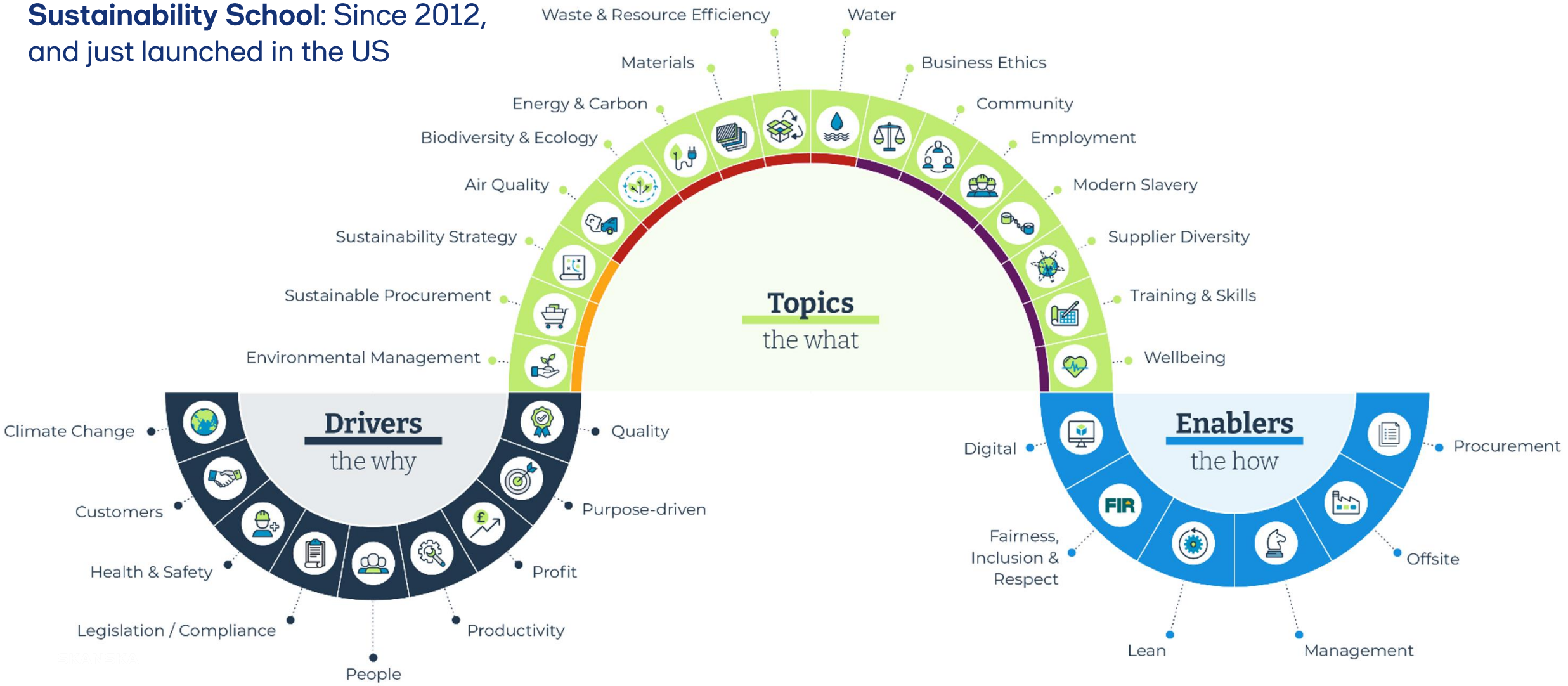
## Materials


## Circularity

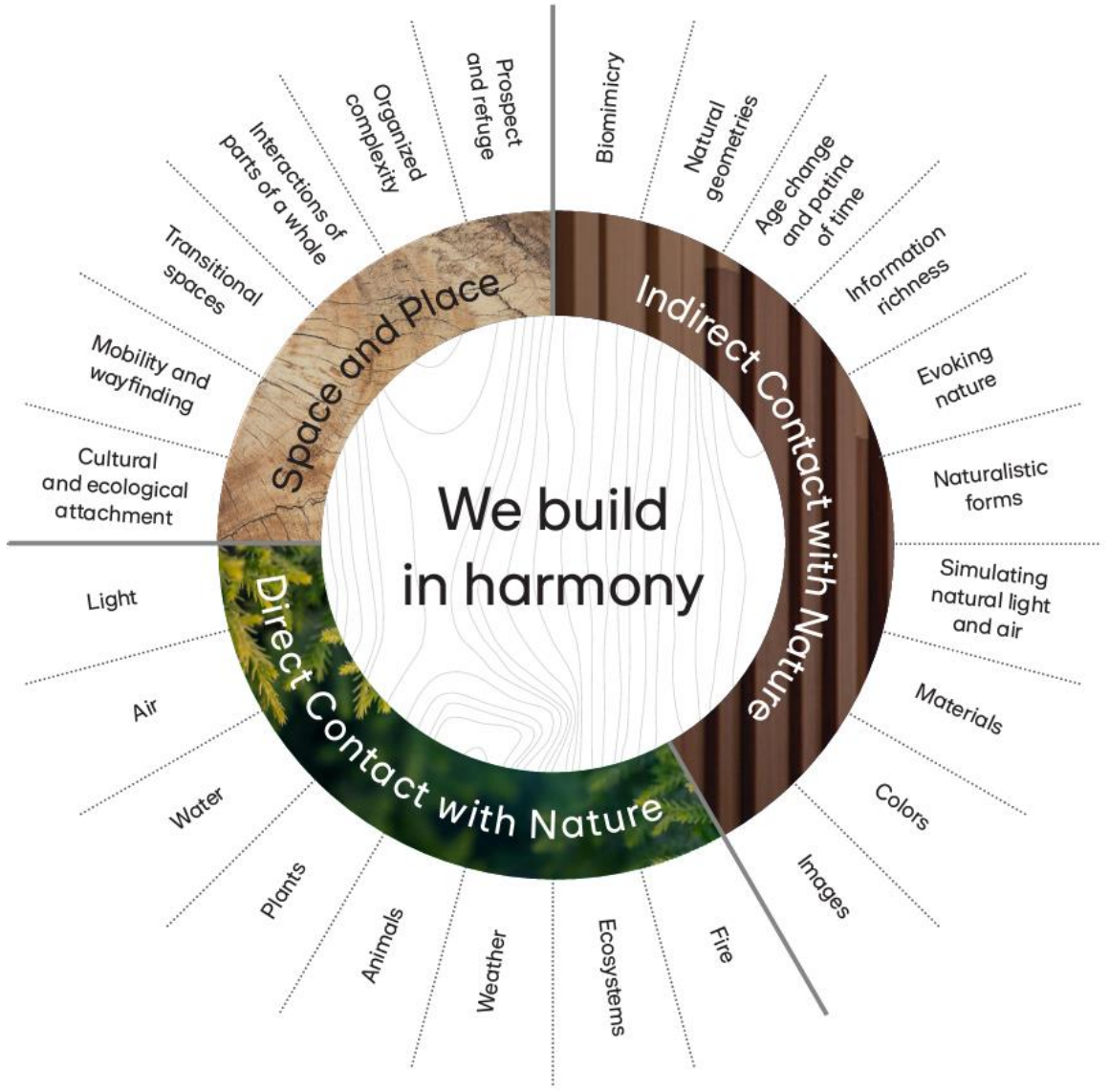
# Sustainability School

Co-Founder of **the Supply Chain Sustainability School**: Since 2012, and just launched in the US



# And hundreds of other points of action and influence to build a better society...

**Awards, accolades and ratings abound. Skanska is about action.**

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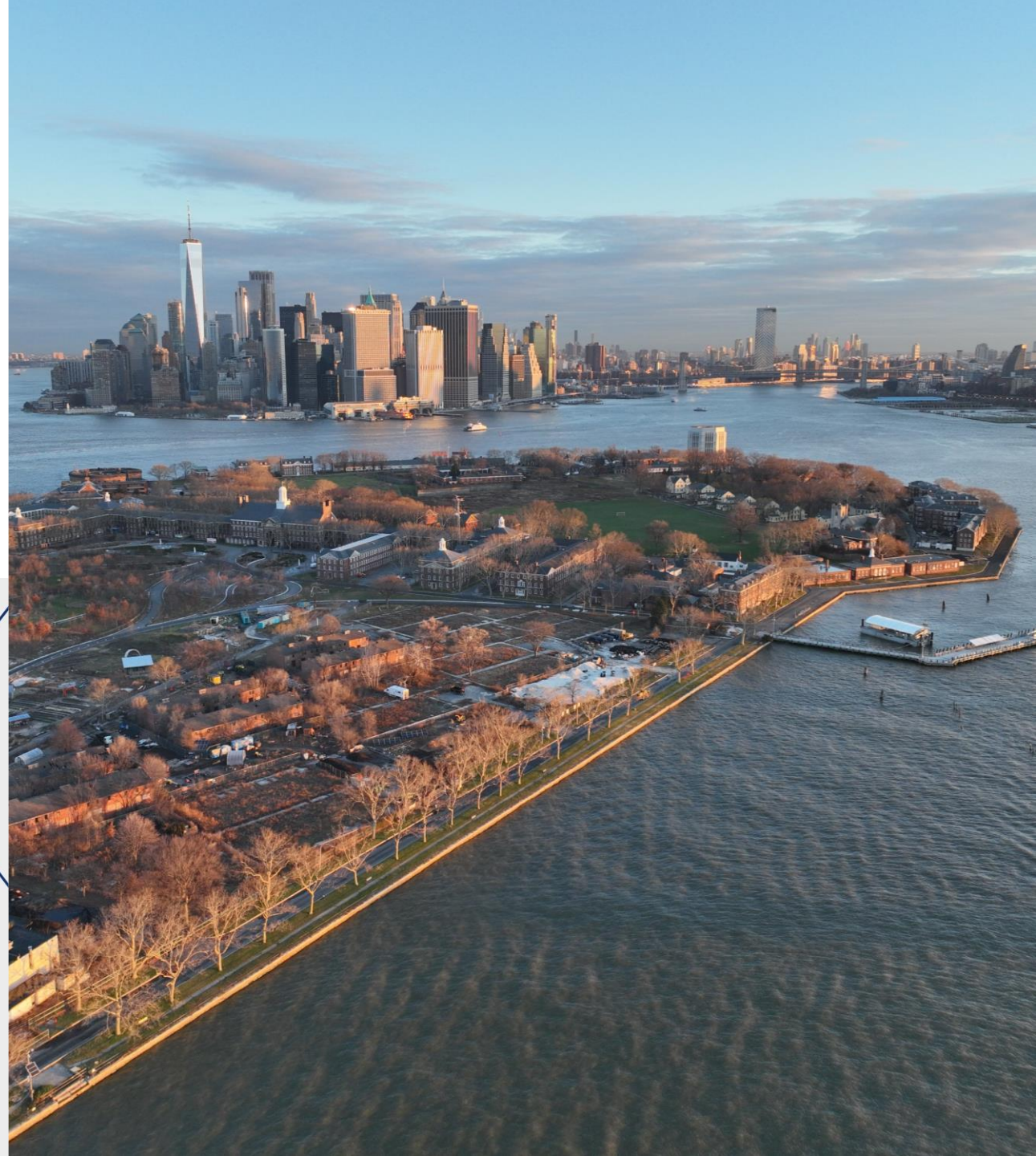
# New York Climate Exchange
## Climate Innovation Center



# Project Scope

| | |
|---|---|
| **Client** | New York Climate Exchange |
| **Start** | October 2024 (Preconstruction Started) |
| **Completion** | Q4 2029 (Final Completion) |
| **Scope** | • New 234,000-SF development includes hybrid timber/steel buildings for convening, education, dining, and research, featuring solar panels and geothermal<br>• Repurposes existing structures for housing, dining, classrooms, and offices, with public spaces<br>• The project adds renewable energy infrastructure, terraced landscapes, boardwalks, outdoor learning areas, and vibrant ecological and recreational spaces |

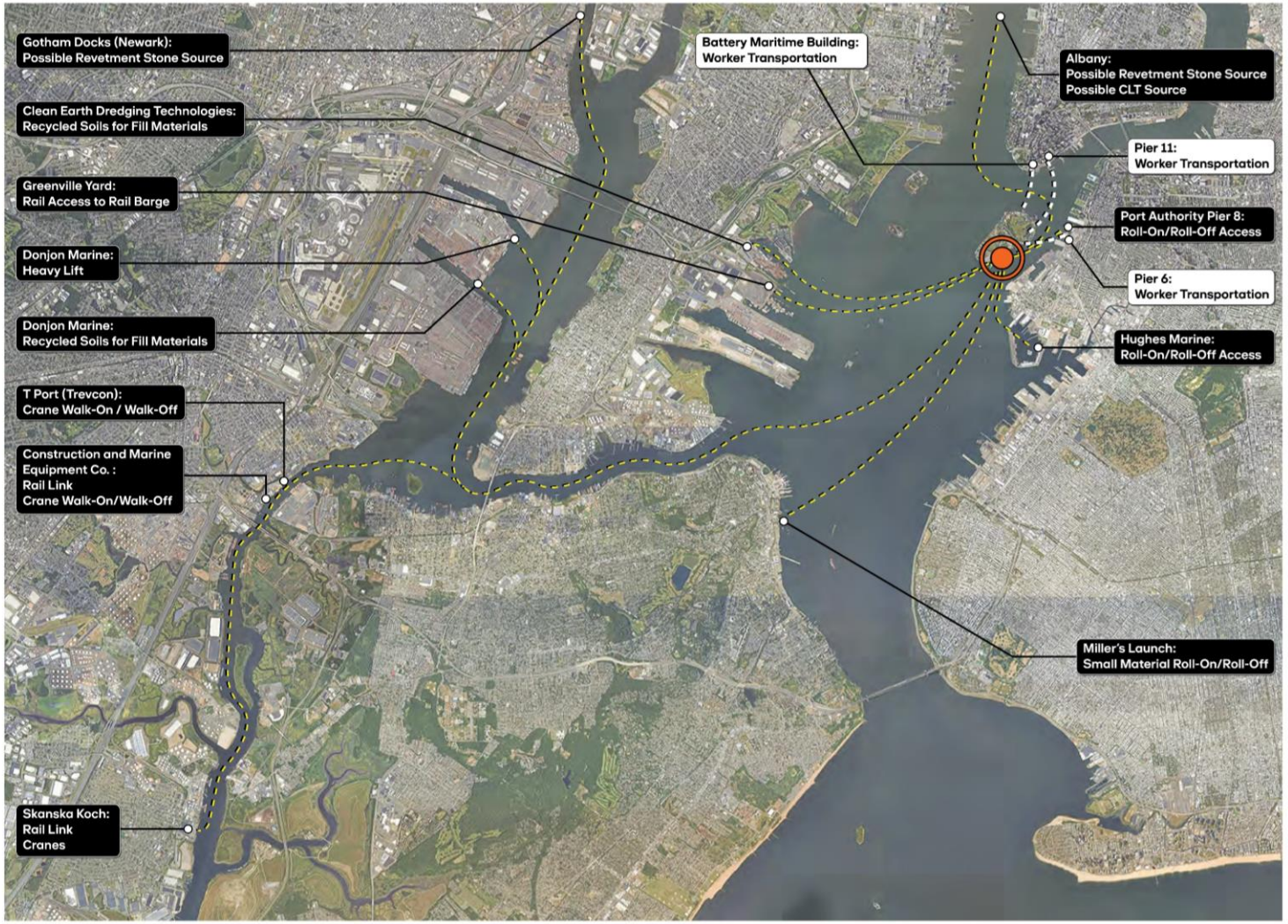
# NYCE Partners

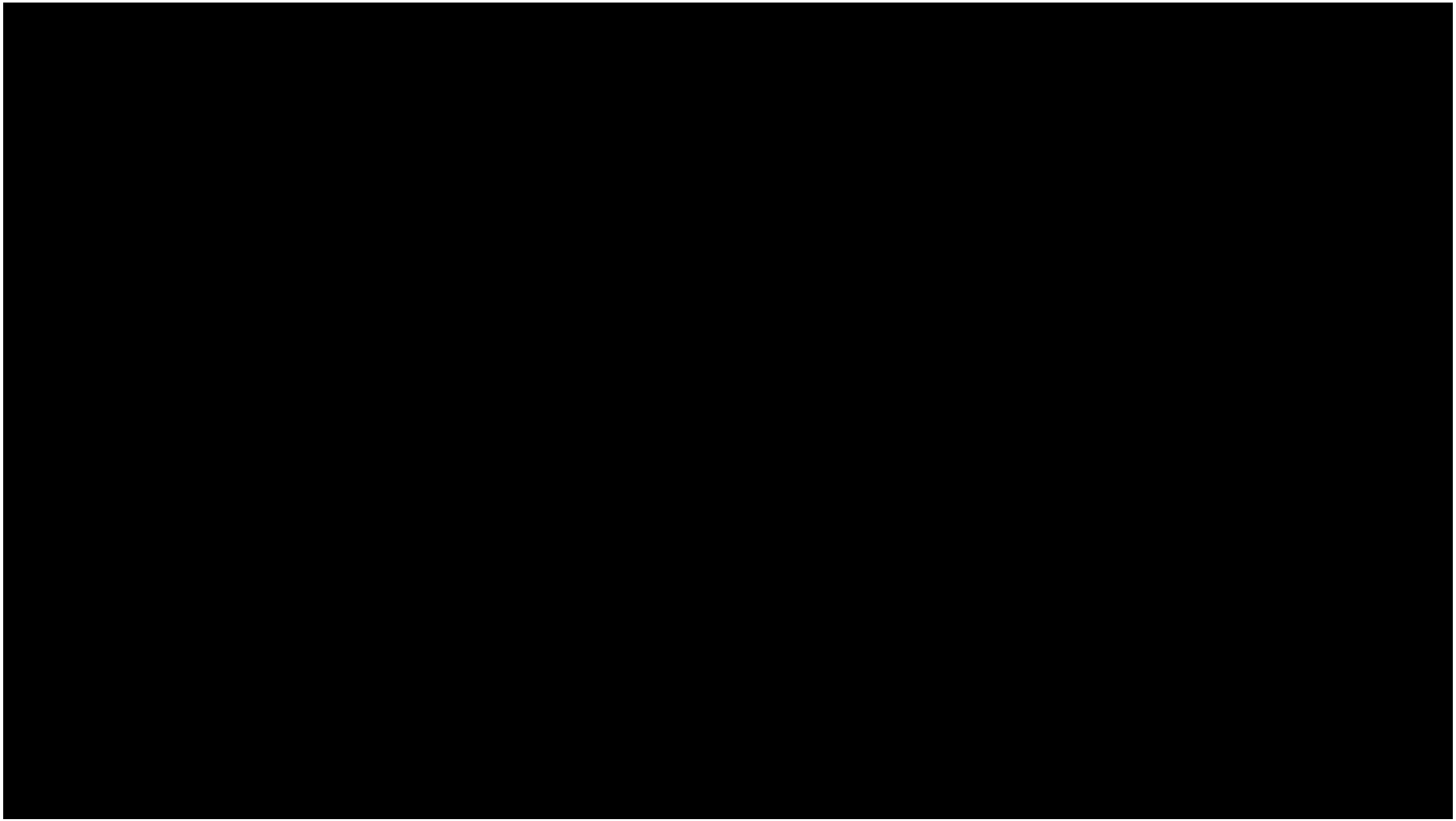
# Project Scope



# Getting to the Island

| Service | Name | Location |
|---|---|---|
| Roll-on, Roll-off Deliveries | Millers Launch | Staten Island, NY |
| | Port Authority Pier 8 | Brooklyn, NY |
| | Hughes Marine | Brooklyn, NY |
| Heavy Equipment Walk-On Walk-Off | T Port | Elizabeth, NJ |
| | Construction and Marine Equipment Co. | Elizabeth, NJ |
| Structural Fill and Bulk Barging | Gotham Docks | Newark, NJ |
| | Clean Earth Dredging Technologies | Jersey City, NJ |
| | Donjon Marine | Jersey City, NJ |
| Intermodal | Greenville Yard | Jersey City, NJ |
| | Donjon Marine | Jersey City, NJ |
| | T Port | Elizabeth, NJ |
| | Construction and Marine Equipment Co. | Elizabeth, NJ |
| Storage and Fabrication | Skanska Koch | Carteret, NJ |
| | Donjon Marine | Jersey City, NJ |
| | T Port | Elizabeth, NJ |
| | Construction and Marine Equipment Co. | Elizabeth, NJ |
| | Port Authority Pier 8 | Brooklyn, NY |





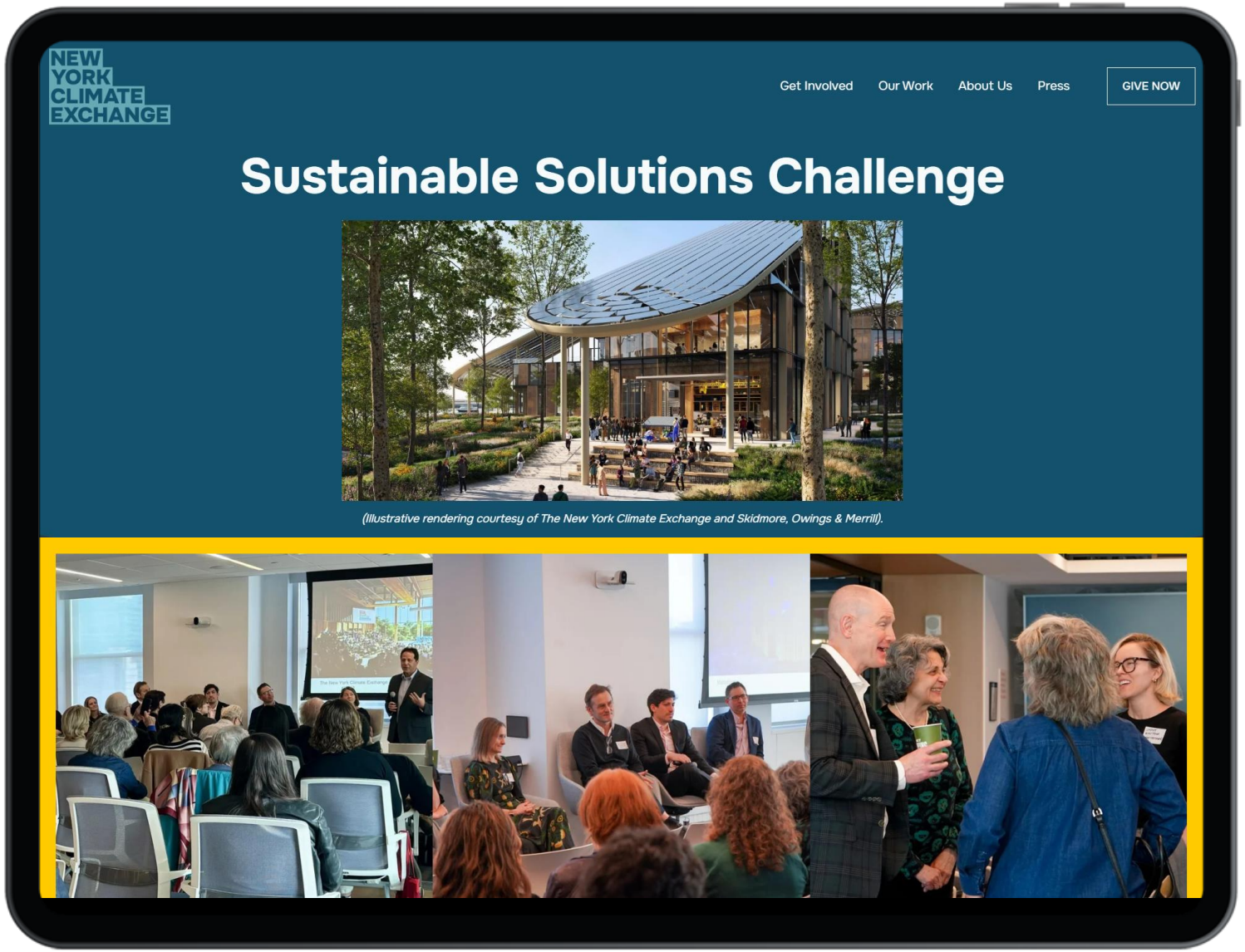
# Sustainability Certifications



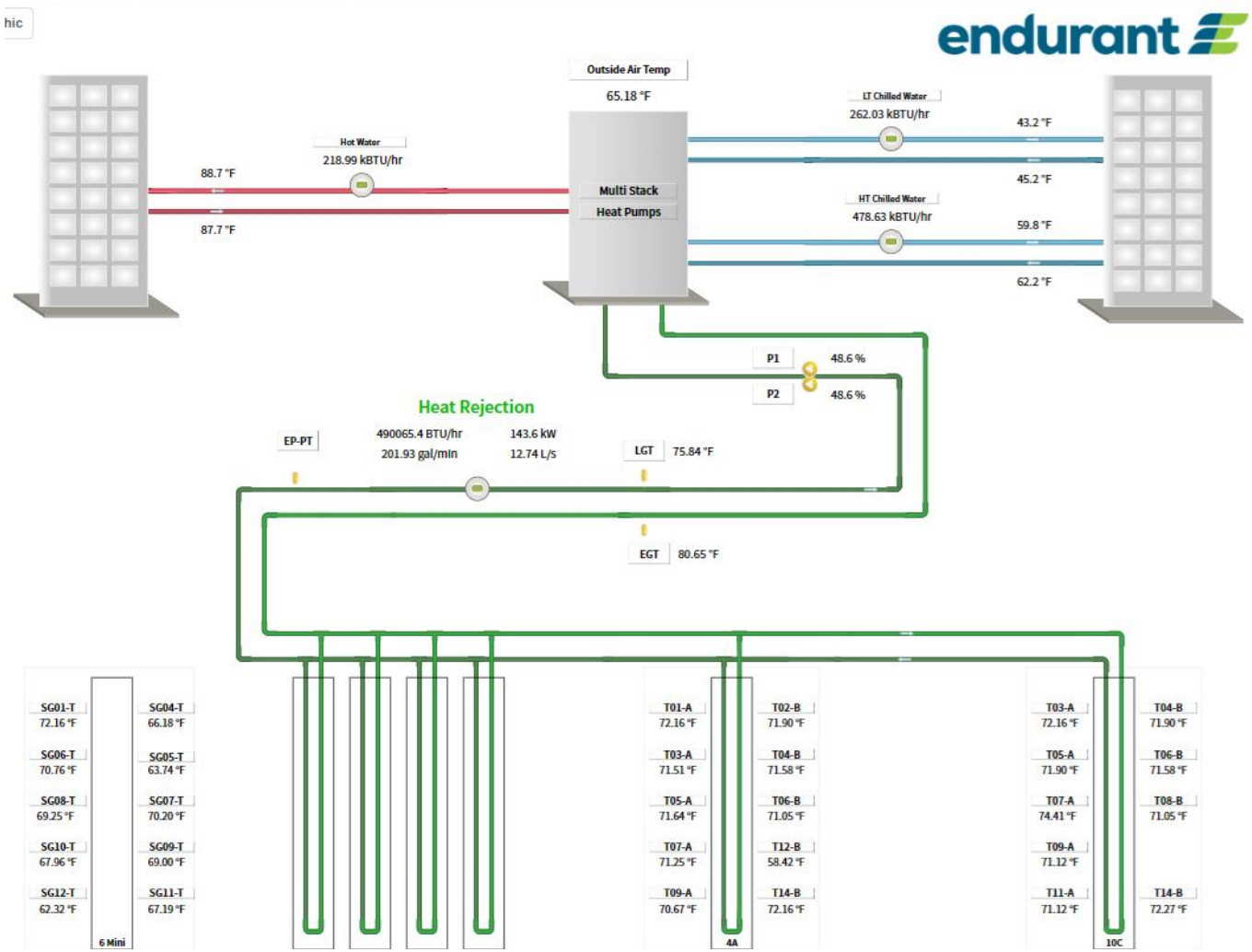

# Sustainable Solutions Challenge

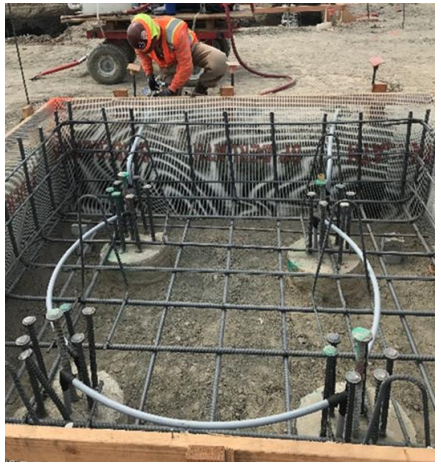
This challenge invited innovators from around the world to **propose scalable, adaptable solutions in the following areas:**

- Built Environment & Design
- Infrastructure Systems & Resource Efficiency
- Resilient Ecosystems & Landscape Design



# Geothermal | Energy Piles



# NYC Mass Timber Studio

- Introduce more practitioners to the details and feasibility of mass timber construction.
- Identify development opportunities resulting in new building and infrastructure projects in New York City constructed with mass timber.
- Promote regulatory clarity and prudent code reform that make the use of mass timber construction more feasible.



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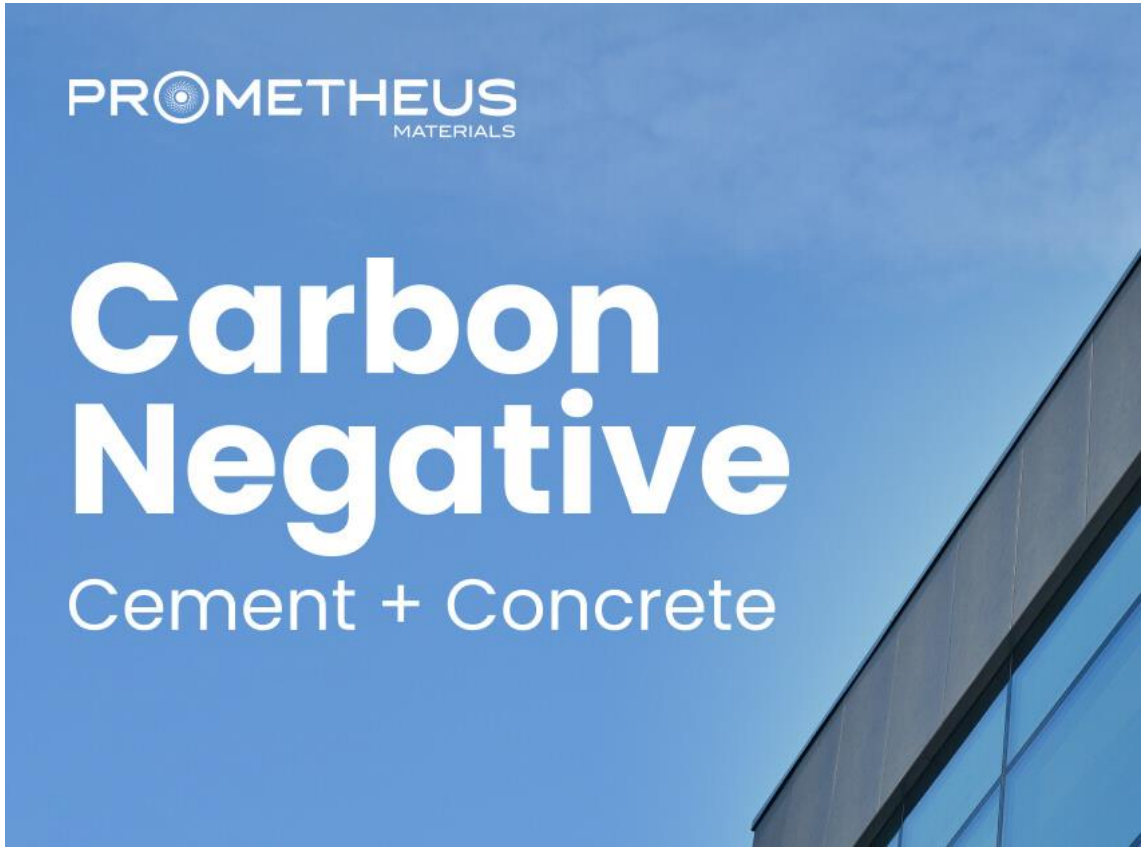
# Incorporating Technology


Underwater Drones

Ground penetrating radar (GPR) technology

# Innovative Materials




Algae Concrete

Old oyster shells to replace traditional aggregate

# Sustainability Solutions

- Klima Kover Mass Timber Cooling Shelter
- Green Roof and Rainwater Harvesting
- Exploring solar/geothermal in foundation/river loop

# Project Photos

# Project Photos

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# NYCEDC
# Science Park & Research Campus (SPARC) Kips Bay

New York City Economic Development Corporation – SPARC Kips Bay

# Science Park & Research Campus (SPARC) Kips Bay Overview

| | |
|---|---|
| **Client** | New York City Economic Development Corporation |
| | |
| **Start** | November 2024 (precon start) |
| **Completion** | Q4 2029 (final completion) |
| **Scope** | • 756,200-SF state-of-the-art hub for life sciences, healthcare, education, and public health center, while upgrading public-use community spaces. Phase 1 includes:<br>• Deconstruction of the existing buildings on the current Hunter Brookdale School of Nursing campus<br>• Over 600,000-SF of educational facilities for the City University of New York (CUNY) and New York City Public Schools (NYCPS), SPARC Square—a new central public open space on the campus, and flood protection measures;<br>• Reconstruction of the existing 25th Street pedestrian bridge over the FDR Drive |

# Sustainability at SPARC Kips Bay

## - Circularity

- Conducted outreach to various organizations to gauge interest in acquiring materials
- Performed material probes to assess the feasibility and viability of salvaging materials for reuse
- Findings from probes contributed to Skanska's 75 percent cost estimate for circularity scope
  - For potential reuse materials noted by the design team, Skanska provided cost estimates for removal, palletizing, shipping, and storage
  - For suitable materials identified for reuse by third parties, Skanska provided estimates for removal and preparation for pickup by others

# Sustainability at SPARC Kips Bay

- Circularity (cont.)
  - In demo bid package, Skanska will request subs include salvaging in their bid unit prices for identified materials and a total allowance amount based on Skanska's estimates
  - Developing protocols for third party organizations to remove materials from the site directly
- LEED certification
- All electric building

# Circularity at SPARC Kips Bay

## Probe Log Examples – P1 – Gym Floor Panel

| ID Number | P1 |
|---|---|
| Building | West Building |
| Location | Gym floor |
| Test Type | 2' by 2' wooden floor |
| Man Power | 2 |
| Time | 1 hour |
| Notes | This wood floor was found to be NOT salvageable. If saving suggested method for salvaging is all manual labor with hand tools. |

# Circularity at SPARC Kips Bay

## Probe Log Examples – P3 – 8”x8” Glass Block

| ID Number | P3 |
|---|---|
| Building | West Building |
| Location | Pool |
| Test Type | 8" by 8" glass block |
| Man Power | 2 |
| Time | 20 mins |
| Notes | First glass block was removed in 20 mins, the other three took one minute each to remove. Suggested method for salvaging is using hammer drill and chisel mallets to remove the blocks. |

# Circularity at SPARC Kips Bay

## Probe Log Examples – P8/9 – Courtyard Granite Wall Stones

| ID Number | P8 |
|---|---|
| Building | Courtyard |
| Location | Campus Courtyard |
| Test Type | Removal of granite wall stones-8SF |
| Man Power | 3 |
| Time | 1 hour |
| Notes | Suggested method for salvaging is using a grapple to expedite salvaging of the stones during demolition. |

# Circularity at SPARC Kips Bay

## Probe Log Examples – P11 – Stone Wall Panel Behind Front Desk

| ID Number | P11 |
|---|---|
| Building | West Building |
| Location | Front Desk |
| Test Type | Stone Panel |
| Man Power | 3 |
| Time | 3 hour |
| Notes | This was the first stone to be removed, took longer due to tight joints middle of wall. Suggested method for salvaging is using a hoist apparatus to garb onto stones. |

# Circularity at SPARC Kips Bay

## Probe Log Examples – P12 – Adjacent Stone Wall Panel Behind Front Desk

| ID Number | P12 |
|---|---|
| Building | West Building |
| Location | Front Desk |
| Test Type | Adjacent Stone Panel |
| Man Power | 3 |
| Time | 45 mins |
| Notes | Adjacent stone took a lot less time compared to the first stone listed above. Please note that when the contractor mobilizes to take out high quantities of marble panels in the building, they will utilize a hoist apparatus to grab onto the stones to expedite the removals. |

# Circularity at SPARC Kips Bay

## Probe Log Examples – P14 – Stone Wall Panel Basement Staircase

| ID Number | P14 |
|---|---|
| Building | East Building |
| Location | Basement staircase |
| Test Type | Stone wall panel |
| Man Power | 3 |
| Time | 1 hour |
| Notes | Suggested method for salvaging is using a hoist apparatus to garb onto stones. |

# Circularity at SPARC Kips Bay

## Probe Log Examples – P16 – Exterior Stone Wall Panel

| ID Number | P16 |
|---|---|
| Building | North Building |
| Location | Outside of common room |
| Test Type | Exterior stone removal |
| Man Power | 3 |
| Time | 3 hour |
| Notes | Historical stone relief removal is estimated at 3 men for 1 day for each relief removal. Suggested method for salvaging is using a hoist apparatus to garb onto stones. |

# Circularity at SPARC Kips Bay

## Probe Log Examples

| ID Number | Building | Location | Test Type | Man Power | Time | Notes |
|---|---|---|---|---|---|---|
| P30 | West Building South Elevation | Lower Roof | Façade Masonry 1' by 1' | 3 | 30 mins | N/A |
| P59 | East Building North Elevation | Window above sidewalk shed | Façade Masonry 1' by 1' | 3 | 30 mins | N/A |

# Questions & Answers