

Weathering the Storm: Resilience & Sustainability in Design & Construction ACCL/ACOEL 2018

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Chief Sustainability Officer Skanska USA

Building Resilience

 A part of Skanska's Green Initiative

Global Commitment



“Climate change concerns everyone. In fact business is both part of the problem and the solution. We want to contribute to build a better society, both by striving towards low carbon solutions within our operations, in addition to supporting our customers in their need of **resilient solutions** and lowering their carbon footprint.”

Johan Karlström
President and CEO, Skanska AB



Skanska Green Building Strategy

Deliver profitable, **resilient**, low/zero carbon solutions to our customers

Enhanced Sustainability Reporting using the Global Reporting Initiative (GRI) Framework

Committed to the Paris Agreement

Smarter Business

Never Waste a Crisis (NYU Langone Medical Center)



Learn from Mistakes (University Medical Center, New Orleans)



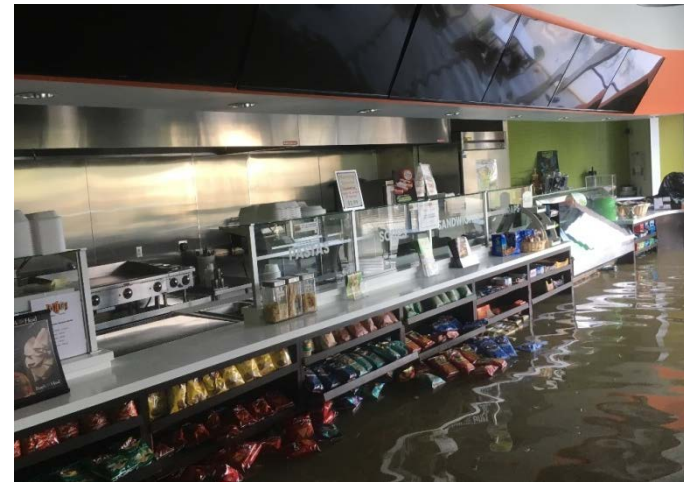
Restore Commerce

(Rockaway Boardwalks, Queens, NY)



Rapid Recovery

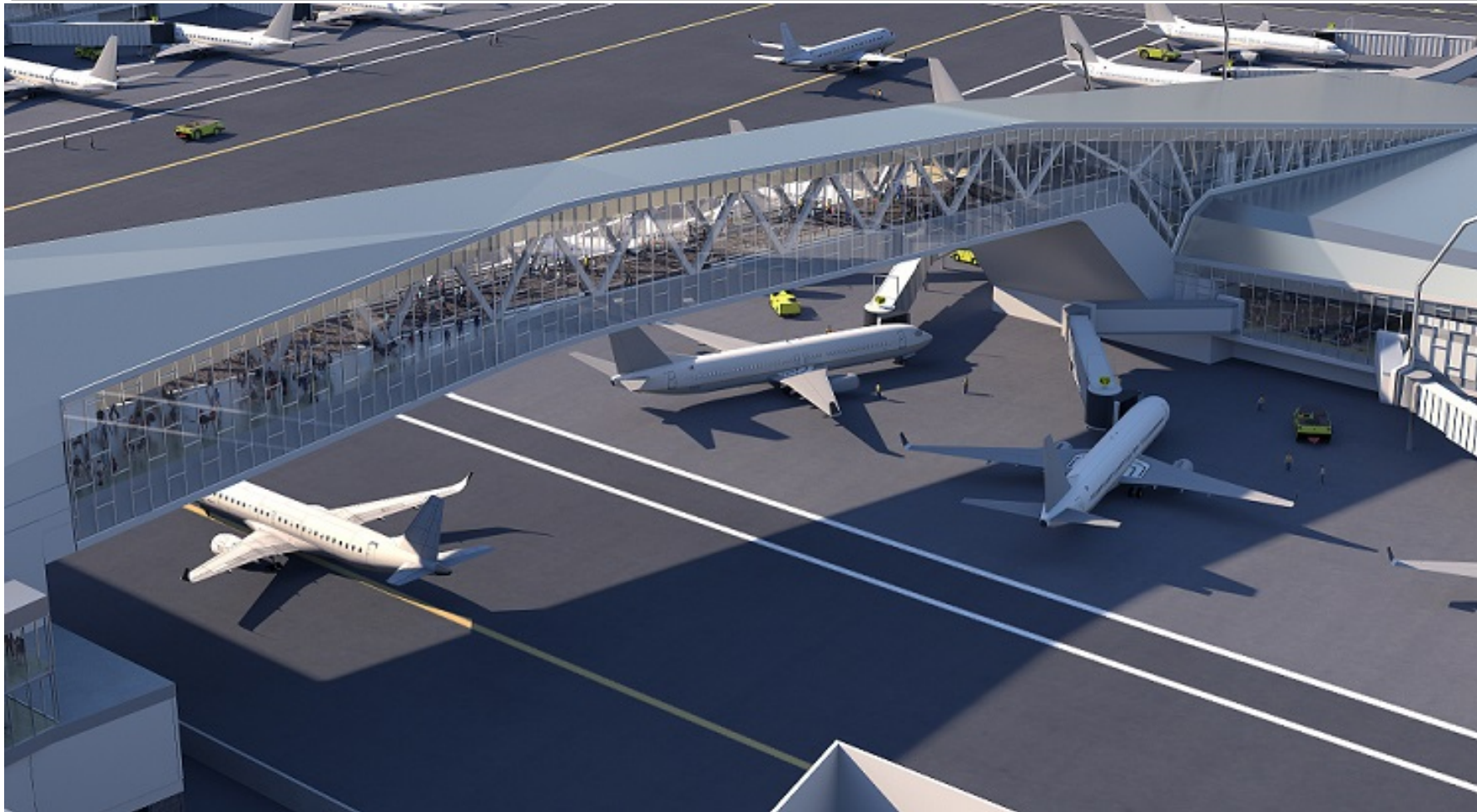
(West Memorial Place I and II, Houston, TX)



Designed for the past (LaGuardia Airport)



A More Resilient Future (LaGuardia Airport)



Resilient beyond Design (Brock Center)



LIVING BUILDING CHALLENGE™ 2.0
A VISIONARY PATH TO A RESTORATIVE FUTURE



Our Brock Environmental Center was awarded Best of the Best Green Awards by Engineering News Record. This honor recognizes the Brock Center for overcoming rigorous challenges in order to attain the strict performance areas of the Living Building Challenge.



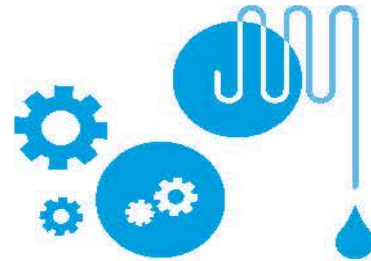
1. Rain Falls

Virginia Beach receives more rain on a yearly basis than Seattle, Washington



2. Rain Captured

40% of rainwater is captured by the Rooftop Catchment Area at Brock Environmental Center, the remaining 60% is diverted to rain gardens



3. Rain Purified

Rainwater goes through a multi-step treatment before being supplied to the building from pressure tanks



4. Rain Brewed

Purified rainwater supplies a number of needs such as drinking... or beer brewing

Rainwater

Supply and Demand

Estimated three-week Water Use: 3,045 gallons

Actual Capacity of Cistern: 3,300 gallons



Source: Brock Environmental Center

Planning Resilience

Pathways toward Resilience

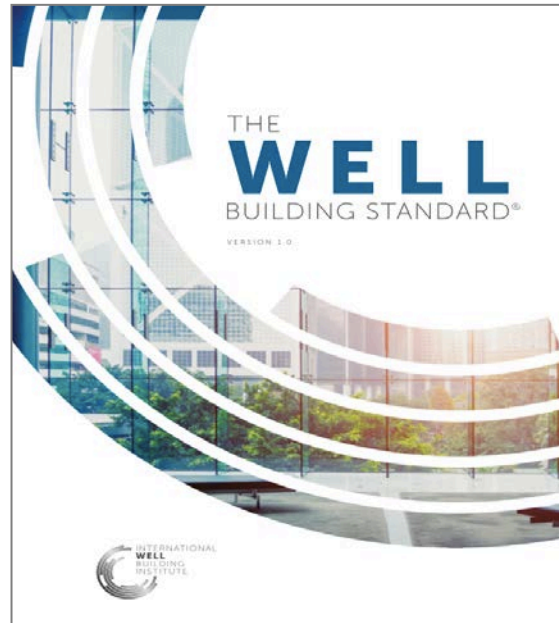


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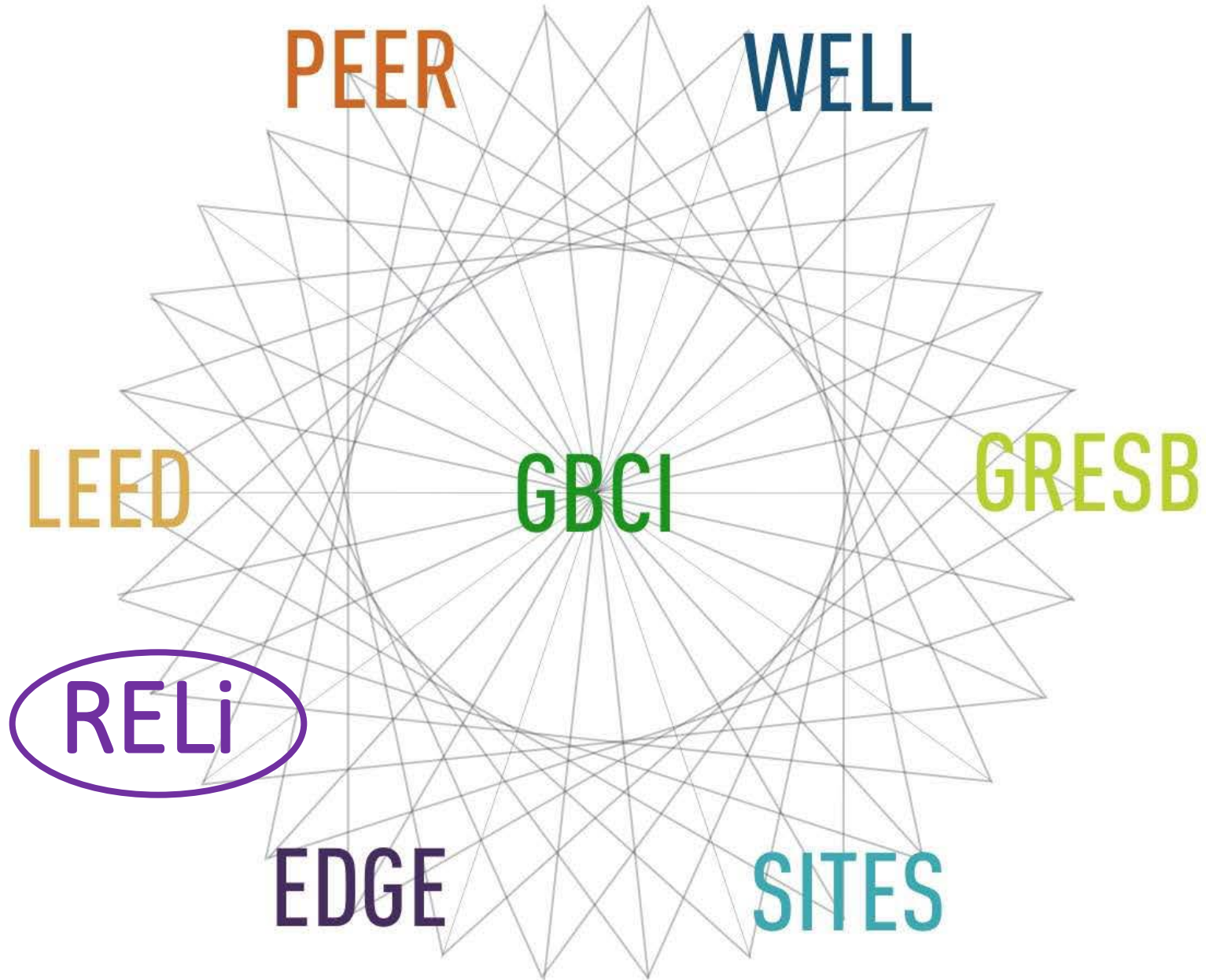
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The National League of Cities & the U.S. Green Building Council Presents
RESILIENT CITIES SUMMIT



Building the
Resilient City



resilience

water

buildings

value

energy

land

people

..... & more



Building Back Better after the Storm

State Policy and Action to Strengthen Community Resilience

A Resilience Roundtable at the Greenbuild International Conference & Expo
November 9-10, 2017
Boston, Massachusetts





2000



2100

Leveraging NZE Investment (Retrofit NY)



Courtesy of Stroomversnelling

nyscrda.ny.gov/RetrofitNY

