# SKANSKA

Steve Clem, SVP Project Planning & Sustainability

# Who Are We? A Global Development and Construction Company



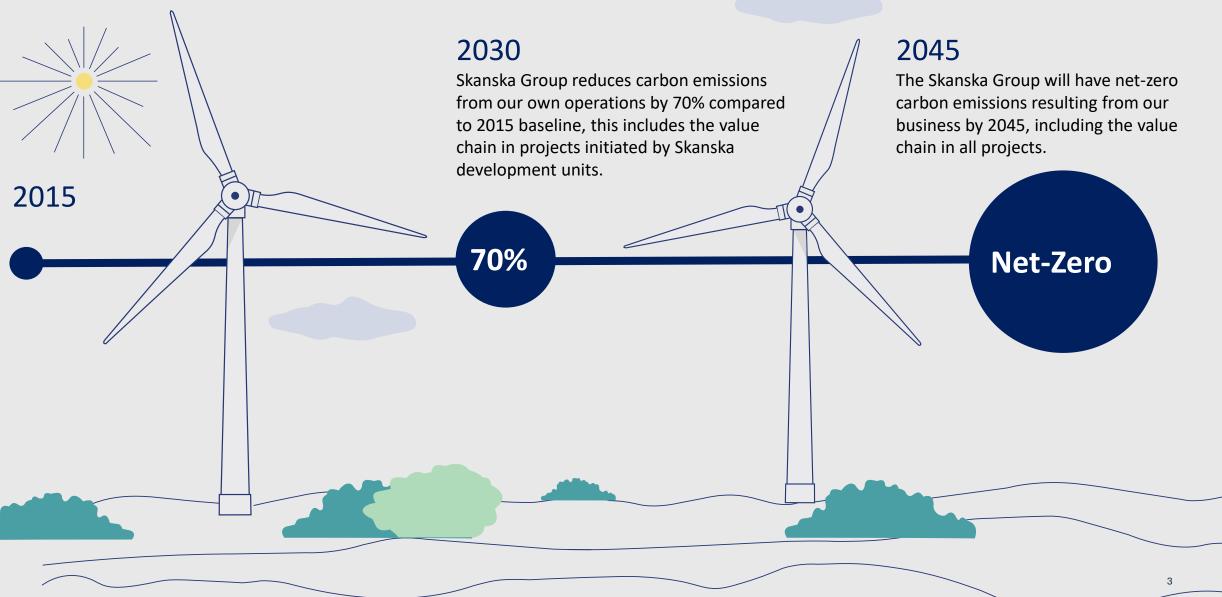


**Business Units** 

1887 Founded in Sweden

**SKANSKA** 

## Skanska Climate Goals



# Skanska Sustainability Team



Steve Clem - OR SVP, Sustainability



Tolga Tutar - OR Senior Sustainability Director



Mark Chen - WA National Carbon Manager



Bailey Zak - WA Senior Sustainability Engineer



Kevin Casey - WA Sustainability Engineer









Jimmy Mitchell - GA Sustainability Manager

Sustainability Director

Elsa Mullin - MA







Thomas Fitzgerald - NY Sustainability Engineer

### **Our Services:**

- Project Support for Green
  Building certifications
- Carbon Emissions Tracking & Reporting
- Sustainability Consulting
- Sustainability Education and Advocac

**Every year, our** sustainability team updates our USA Climate Plan, detailing specific steps to meet the 2030 and 2045 targets.



## **Example Climate Plan Action Steps**



Skanska Purchased Fuels (Scope 1) Renewable Diesel, Electrified Vehicles and Equipment, Hydrogen



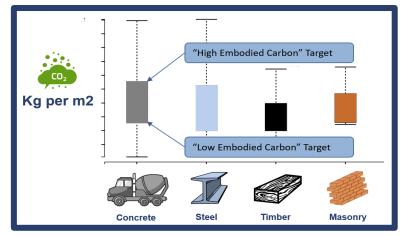
Skanska Purchased Electricity (Scope 2) Renewable Energy Purchasing and Energy Reduction at Jobsites and Offices



Skanska Business Air Travel (Scope 3) Sustainable Aviation Fuel Purchasing



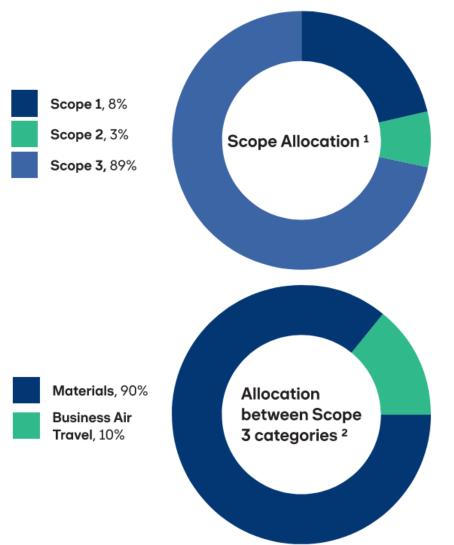
Construction & Demolition Waste (Scope 3) On Site Recycling and Reuse



Manufacturing of Major Purchased Construction Materials (Scope 3) Utilize the EC3 Tool to Procure Low Carbon Concrete, Steel, Asphalt

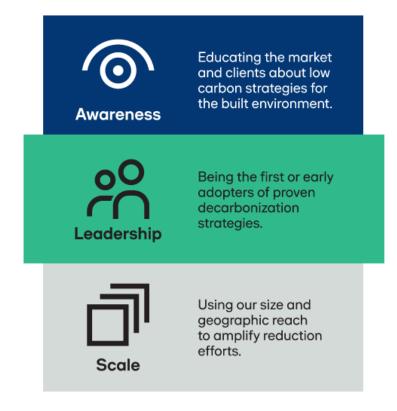
#### Impact areas

#### Materiality



US Building's most significant area of emissions is Scope 3 materials by a wide and growing margin.

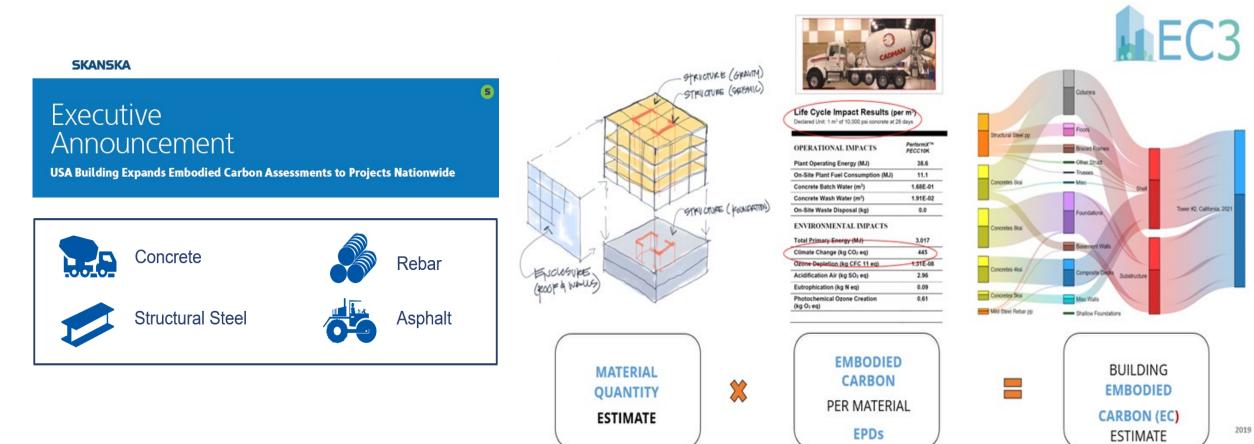
With material selection typically being decided between the Owner and design team, *Skanska's role is primarily in:* 



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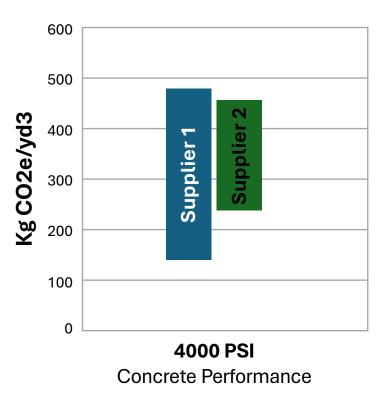
<sup>1</sup> Based on 2022 reporting data <sup>2</sup> See appendix for Scope 3 reporting protocol

## **SKANSKA**



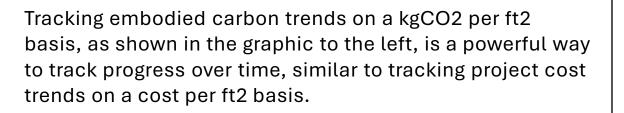
### **Carbon Smart Product Procurement**

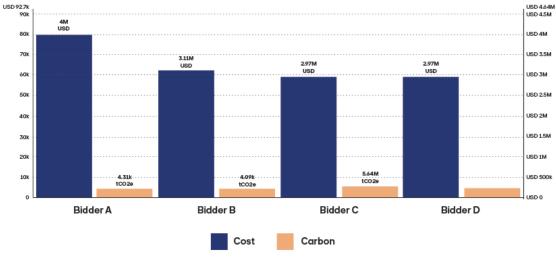
Using the EC3 tool, our teams can examine **manufacturer specific** data for common building materials and make better informed procurement decisions. To date, we've been able to reduce over 8,400 metric tons of CO2 emissions, just by having visibility to this supply chain specific data.



### **Reducing Embodied Carbon With the EC3 Tool**



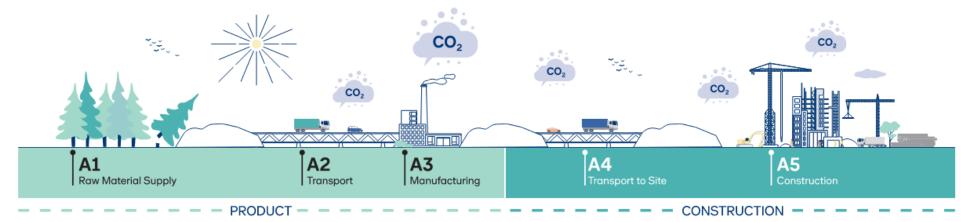




Example of the bid-leveling function in EC3 to ensure embodied carbon is part of our bid package award decisions. Above you will see the results of our analysis—we looked at both cost and carbon so we could choose the lowest carbon concrete bidder while also considering the project budget.

### Embodied Carbon in Construction Calculator 5-Year Findings EC3

On this day five years ago, in partnership with Microsoft, the University of Washington and C-Change Labs, Skanska publicly launched the Embodied Carbon in Construction Calculator (EC3) tool. This report summarizes our key findings and results over the past five years, leveraging EC3 and our in-house methodology for tracking construction activity emissions across the value chain:

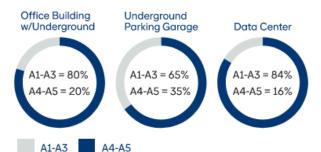


#### Key Findings and Data Points

#### A1-A5: Project Lifecycle

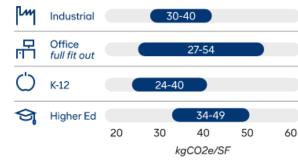
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While A1-A3 stage emissions tracked in EC3 are the largest source of embodied carbon, actual construction data for A4-A5 stages shows higher emissions than estimated by other software. Adding A4-A5 emissions from demolition, earthwork, utilities and drilling/shoring reveals significant contributions to total A1-A5 embodied carbon on past Skanska projects.



#### A1-A3: Product Stage

With over 270 EC3 models of Skanska project data compiled, we are beginning to benchmark building sector A1-A3 emissions, similar to how we benchmark building sector cost per square foot. Below are some observed ranges in EC3 for ground-up, new construction:



#### A4-A5: Construction Stage

A4 – Key factors impacting transportation to site include travel distance and mode of travel. We have seen up to an 81% reduction in transportation emissions by sourcing more locally and reductions between 70% to 73% by switching from truck transport to rail transport or from air freight to ocean barge transport.

**A5** – key metrics for high carbon impact construction activities:



