

# Architect Prioritizes 12 Competing Sustainability Strategies Simultaneously



## Project Description

The on-campus office space is part of terminal connector project designed to ZNE performance in support of the Airport's mission to become the world's first Zero Net Energy airport campus by 2021.

HOK needed to better understand the triple bottom line value of 12 disparate sustainability strategies across energy, materials, and health & wellness to inform SFO on the best investments to make.

## Strategies Assessed



Upfront costs



Views & daylight



Renewables



Natural gas



Embodied CO<sub>2</sub>



Electricity use

**CLIENT**  
**HOK**

**DESIGN PHASE**  
**DD**

**BUILDING TYPE**  
**Office**

**SIZE**  
**100,000 sqft**

**LOCATION**  
**San Francisco, CA**

## How Autocase was Used

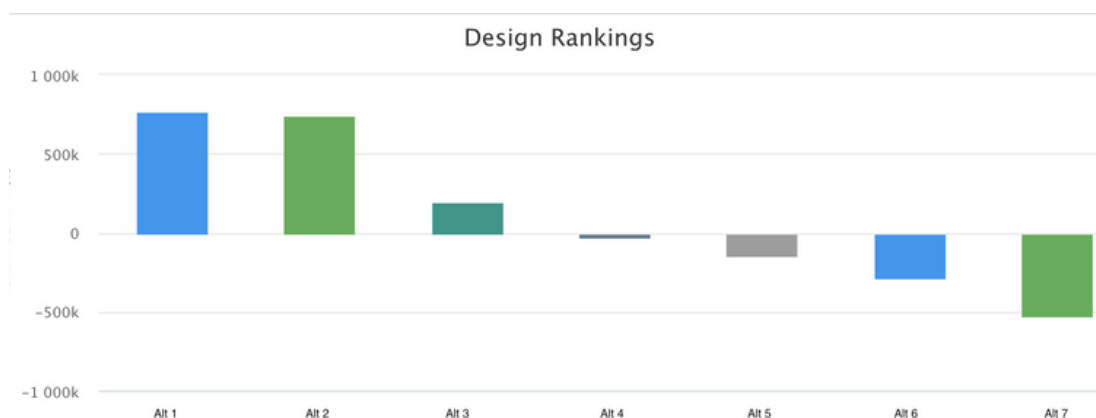
HOK entered design information into Autocase for 12 strategies across:

- **Energy:** Two energy efficiency bundles (advanced envelope vs. next-gen mechanical systems), as well as three solar PV bundles.
- **Materials:** Reduction in embodied CO<sub>2</sub> from low carbon concrete, less structural steel, and renewable-powered rebar.
- **Health and Wellness:** Value indoor planting, living wall, better acoustics, active design elements, among others.
- **Costs:** The upfront cost of each strategy was also included.



## The Outcome

Autocase was able to simultaneously compare the financial, social, and environmental benefits of very different strategies in dollar terms, and compare them against their upfront costs so as to prioritize investments apples-to-apples. The HOK team was then able to advise SFO on which strategies create the biggest triple bottom line bang for the buck.



## Want to learn more?

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