How low can you go? The Architecture 2030 Design Charrette

Stephanie Egger

Autodesk Technical Evangelist

@steph_egger





Class summary

How can we facilitate a discussion between stakeholders and how can we get everyone on board with high-performance targets like Architecture 2030?



Key learning objectives

At the end of this class, you will be able to:

- Understand how conceptual analysis tools can help inform early design decisions for building energy performance.
- Use conceptual analysis tools to achieve Architecture 2030 targets for a variety of project types.
- Test actual sustainable building design strategies with software workflows.
- Reduce building energy cost and meet performance goals.

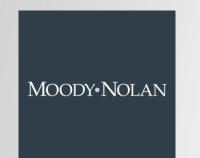


Class Demographics

williams+paddon









































jestico + whiles





Agenda

Introductions

Architecture 2030

Design Exercise

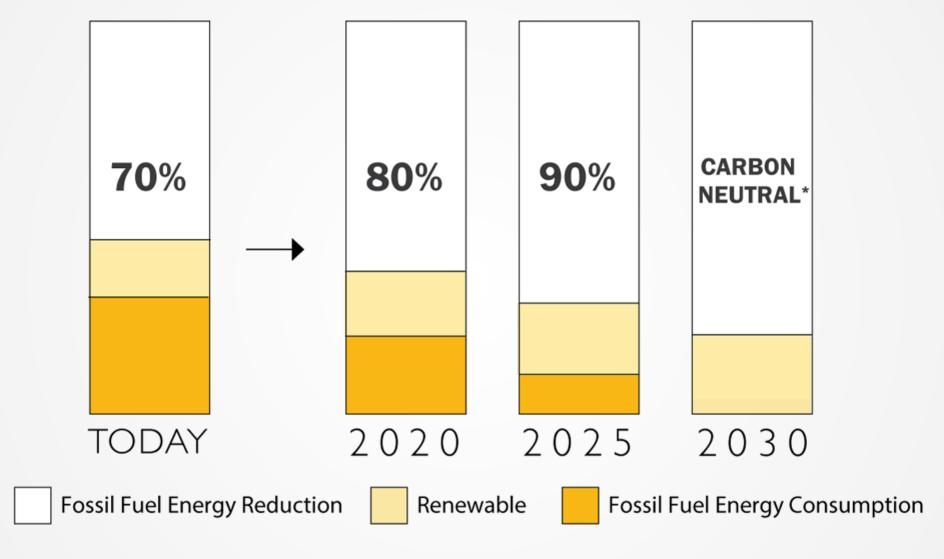
Digital Tools



The Architecture 2030 Challenge



The 2030 Challenge



The 2030 Challenge

Source: ©2015 2030, Inc. / Architecture 2030. All Rights Reserved. *Using no fossil fuel GHG-emitting energy to operate.



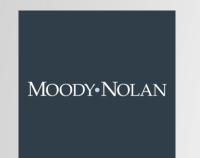


Class Demographics

williams+paddon









































jestico + whiles





Establish energy-efficiency as a central tenet of your firm's design philosophy.



Require that all employees become educated in the design of energy-efficient buildings.



Engage clients in discussions relating to energy efficiency.



Approach every project with an energy focus and review the project for further energy reductions at every stage of development.



Design Exercise



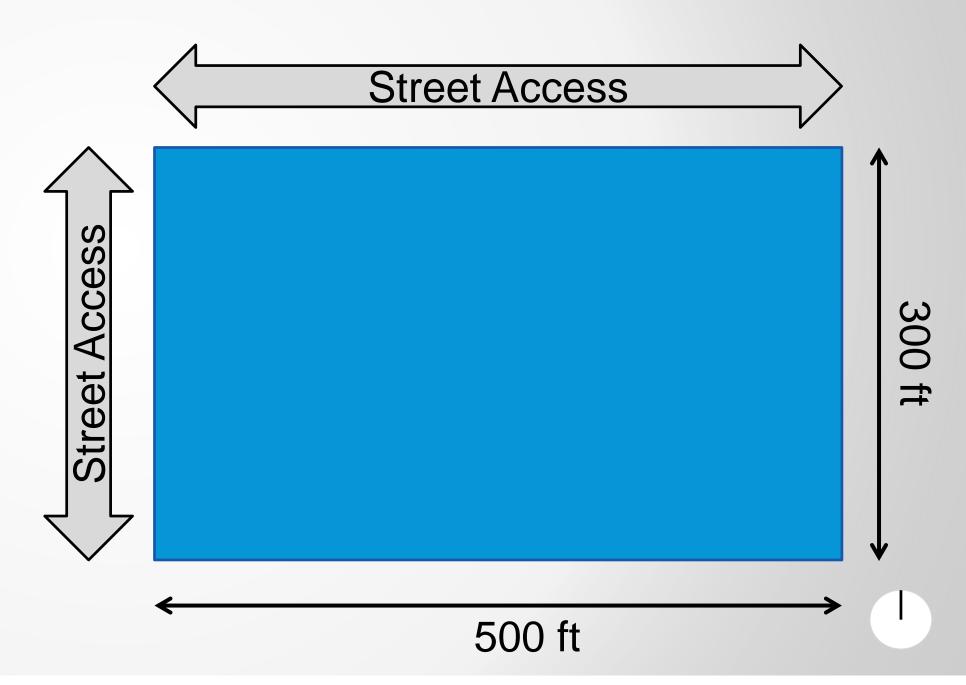
Design Scenario

Building Type: School

Location: Las Vegas

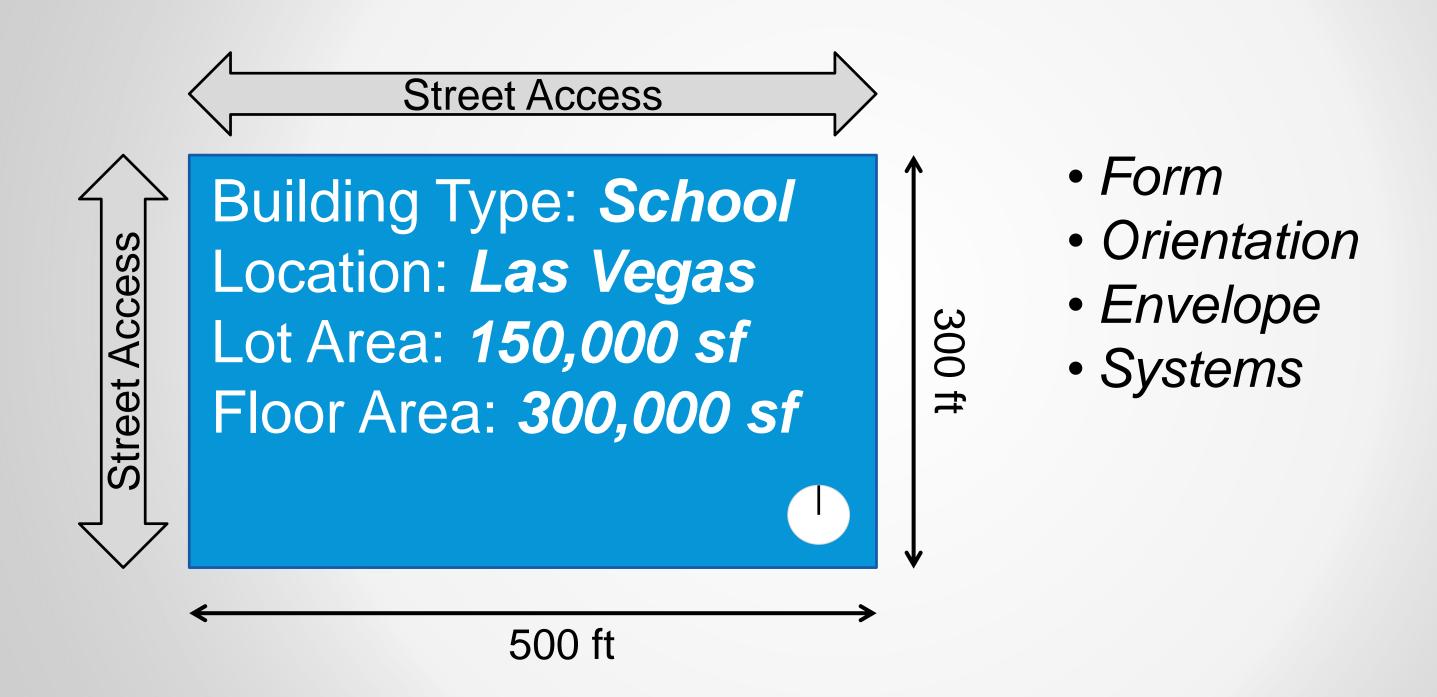
Lot Area: 150,000 sf

Floor Area: 300,000 sf



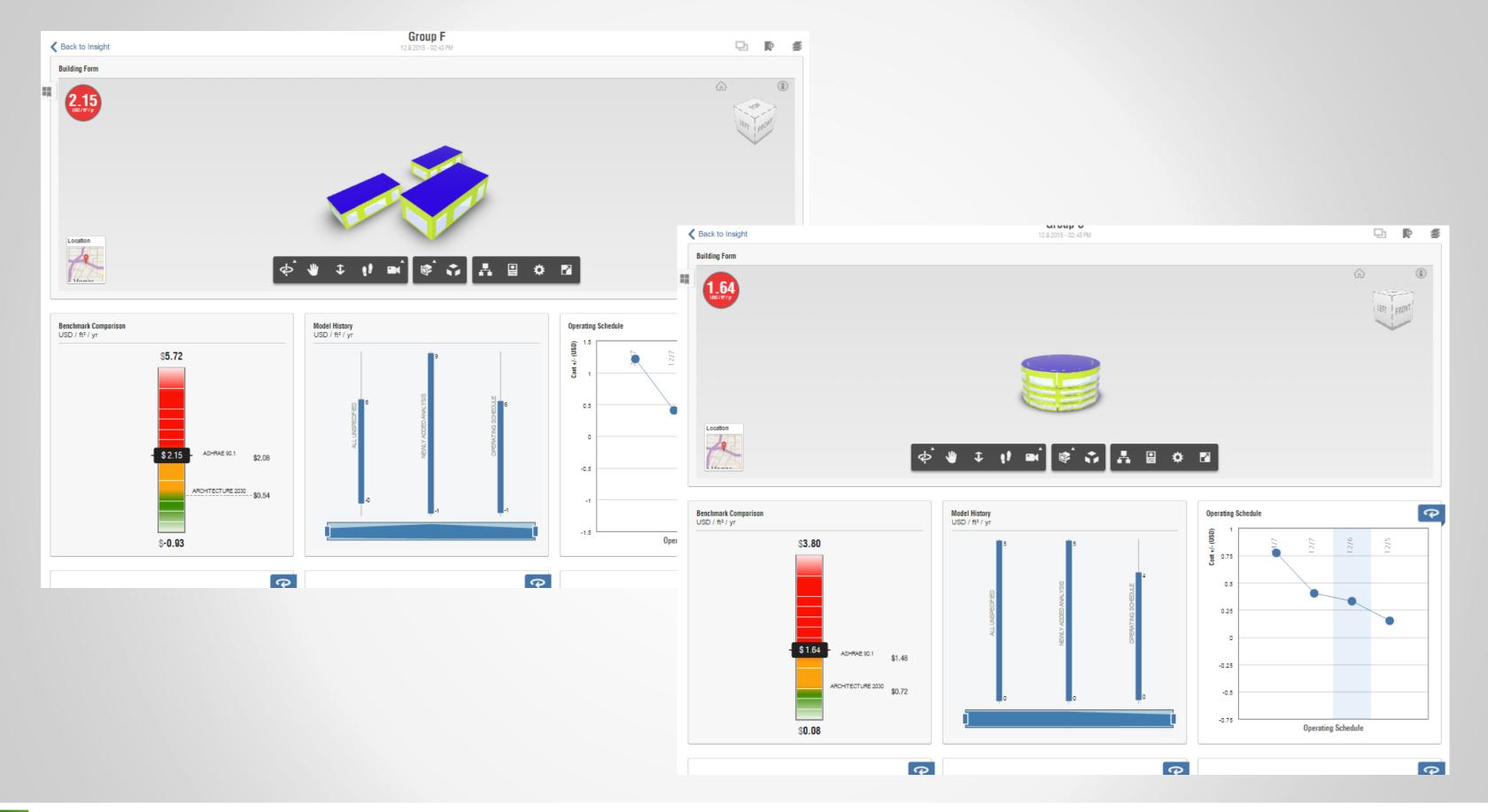


Design Scenario



While the groups were working...





Closing thoughts



Require that all employees become educated in the design of energy-efficient buildings.

Access to information and tools





Engage clients in discussions relating to energy efficiency.

Share early findings





Approach every project with an energy focus and review the project for further energy reductions at every stage of development.

Analysis early and often





Questions insight360.autodesk.com



