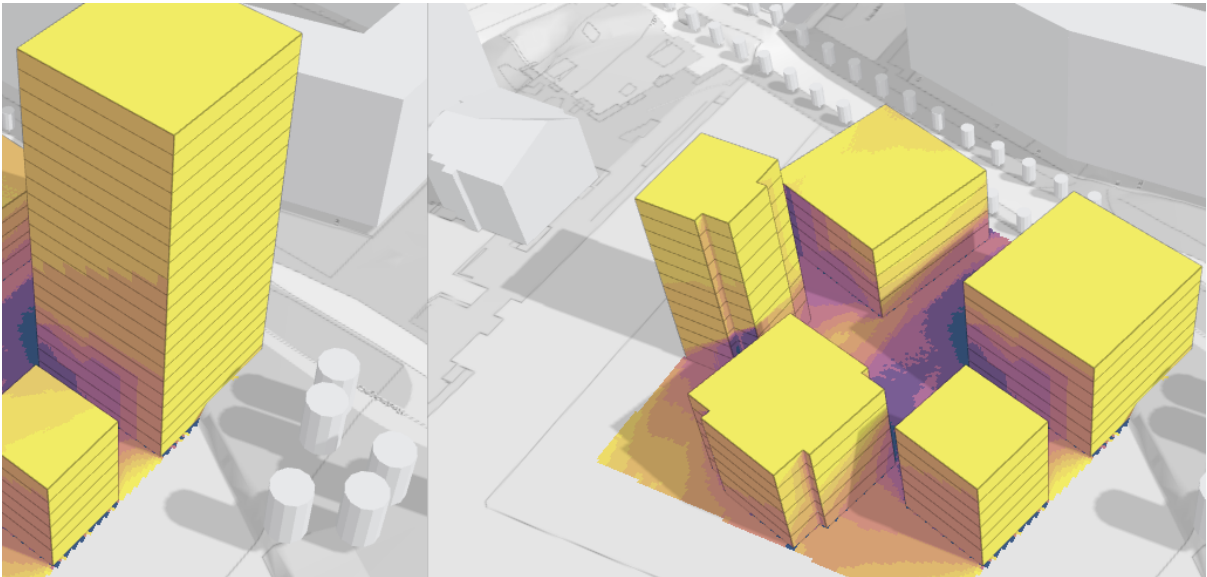


Practice exercise**Conduct a Sun hours analysis of a concept model in Forma**

Use Forma's existing site geometry and weather data to conduct a Sun hours analysis on a concept and then edit the concept and compare the environmental impact results.

Learning objectives:

- Access Forma's environmental impact analysis.
- Analyze a concept's sun hours potential.
- Modify a concept model in Forma.
- Analyze and compare multiple concept models for environmental impact.



The completed exercise

1. To begin, open the Autodesk Forma website and access your Forma hub.

Note that if you have not been assigned the software, you will need to request access to Forma with your student credentials through [Autodesk.com/education/edu-software](https://autodesk.com/education/edu-software).

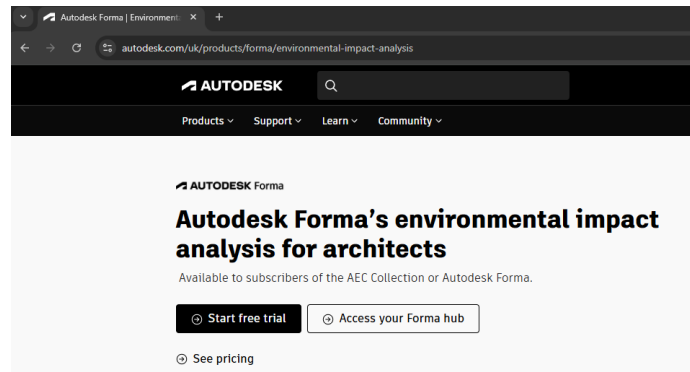


Figure 1. Forma website.

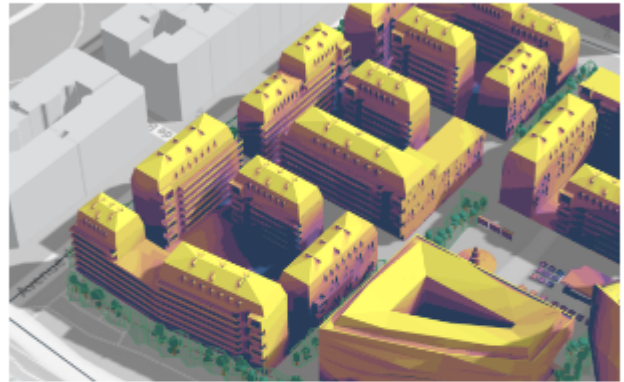
2. Click to choose your hub.



Figure 2. Forma hub.

3. In your projects, open the demo project model.
If prompted, close any tips that pop up.

Learn | Recommended based on your goals



Demo project: Enrich imported model
Learn how to detail an existing model with conceptual design tools.

[Open demo project](#)

Figure 3. Forma Demo project.

4. Once open, in the Tools panel, click to activate the Sun Hours Analysis tool.

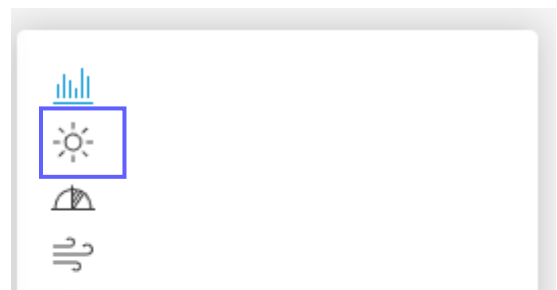


Figure 4. Sun Hours Analysis tool.

- Set the date to August 21 and run the analysis.

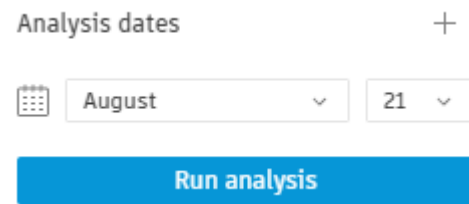


Figure 5. Analysis dates.

- Once the analysis is complete, from the analysis tools, click View History.
Click to select the date that you ran the analysis
Click to select the Sun Hours Analysis to see the results.

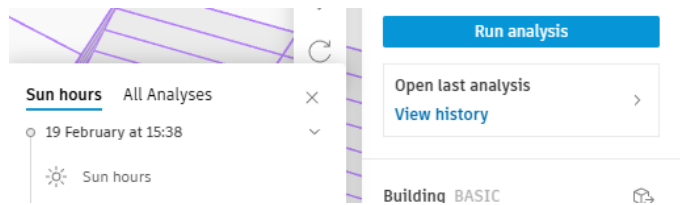


Figure 6. Run analysis.

- Your model should update in a new analysis window.

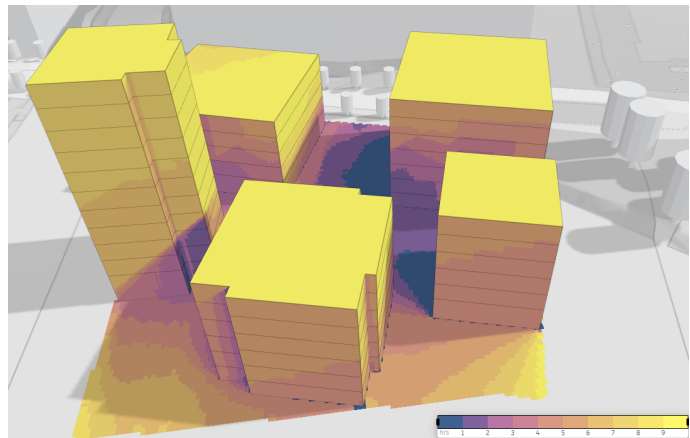


Figure 7. Analysis results.

8. Click to activate the Inspect tool.

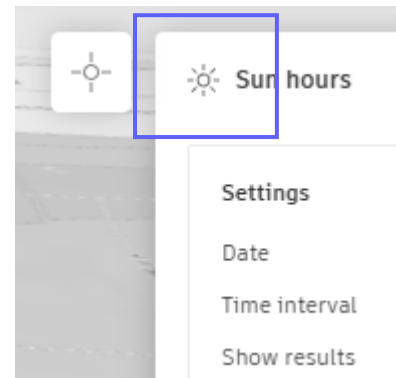


Figure 8. Inspect tool.

9. Click on the face of the building concepts to see the number of sun hours that area will receive.

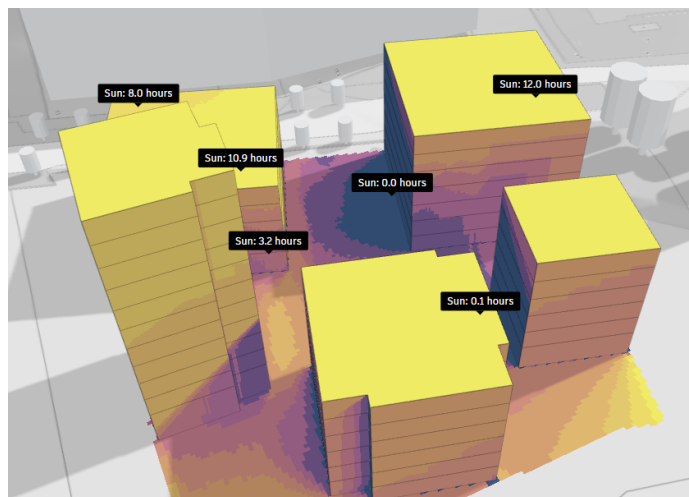


Figure 9. Sun hours.

10. When done, click to close the analysis window and return to the concept.

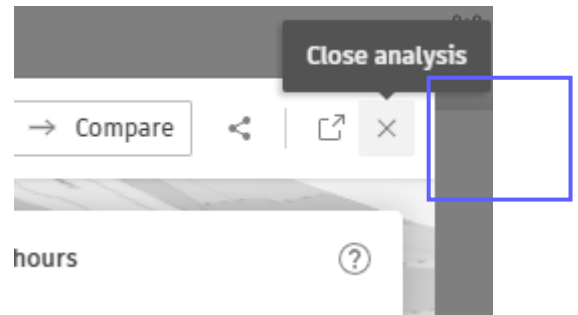


Figure 10. Close analysis window.

11. Click to select one of the buildings. It will appear with a blue highlight as shown.

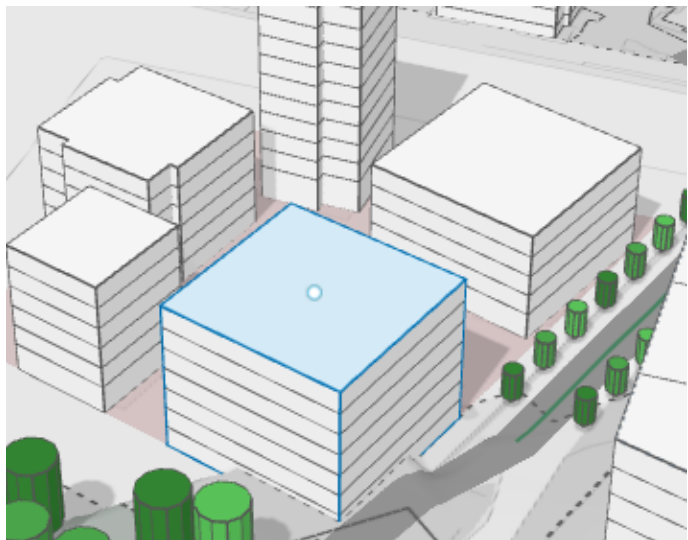





Figure 11. Building selected.

12. In the properties for that building, edit the Stories property to 21 stories.

Building BASIC 

	<input type="text" value="21"/>		<input type="text" value="3m"/>
W	<input type="text" value="24.56m"/>	L	<input type="text" value="25.1m"/>

Function ☐ Unspecified

Figure 12. Building properties.

13. The concept should update to reflect the figure as shown.

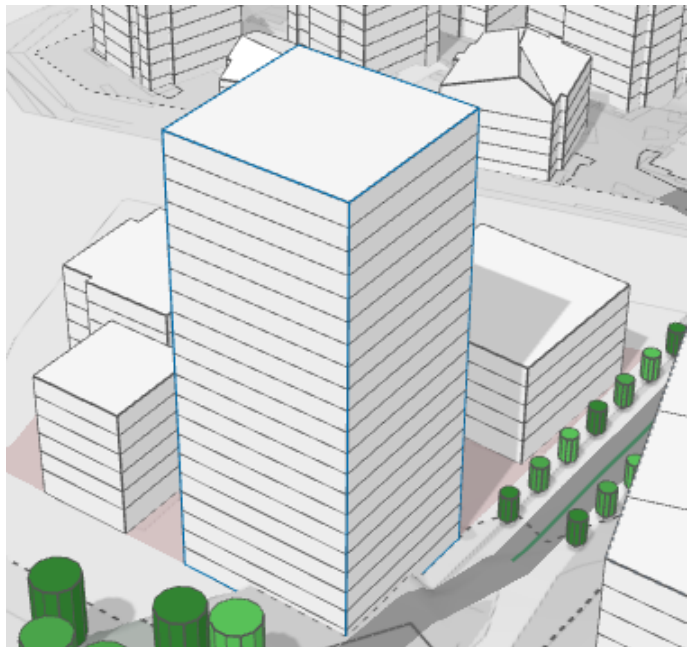


Figure 13. Updated building stories.

14. With any changes to the concept models, a new analysis need to be run. Click Run Analysis to analyze this new concept.

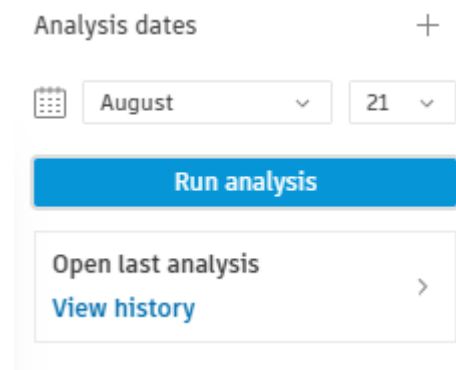


Figure 14. Run analysis.

15. Click View History, click to select the latest date you ran the analysis, and click to select Sun Hours Analysis.

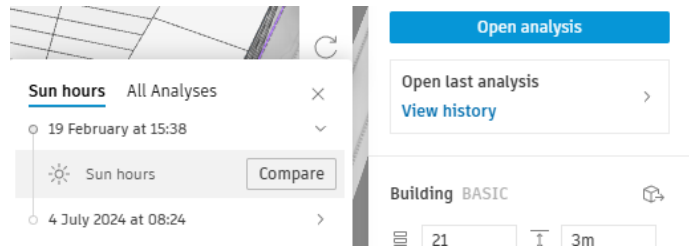


Figure 15. Sun hours analysis option.

16. Investigate the new concept's impact on other buildings sun hours by using the Inspect tool.

Close the analysis window and return to the concept.

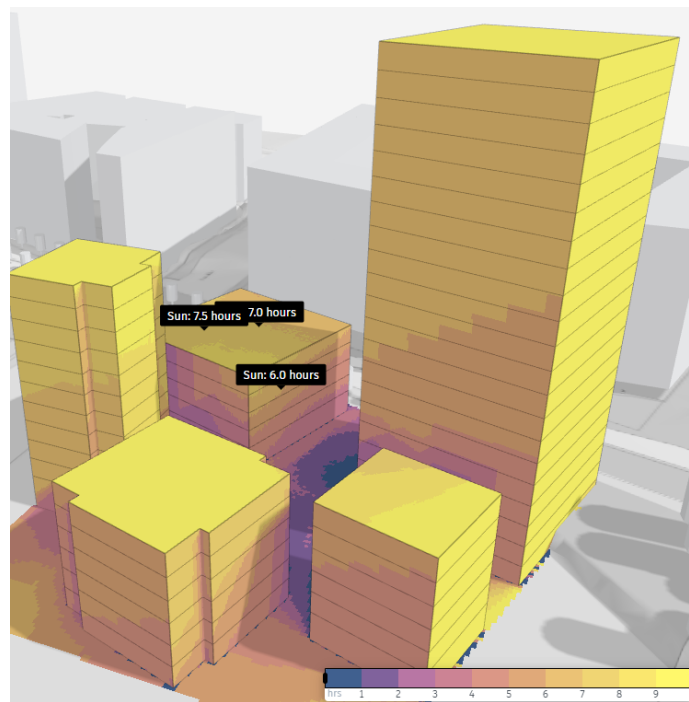


Figure 16. Updated concept Sun hours analysis results.

17. In the Open Analysis > View History window, click Compare to open the most recent concept analysis.

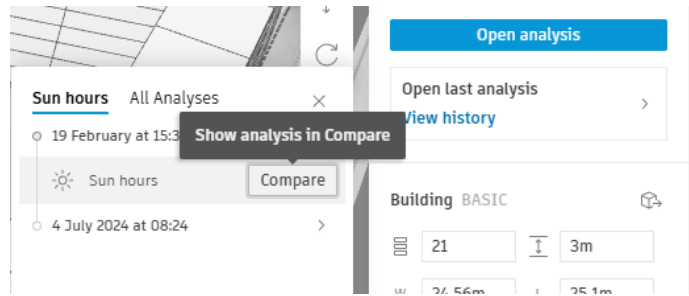


Figure 17. Compare analysis.

18. Click to select the initial analysis as the model to compare it to.

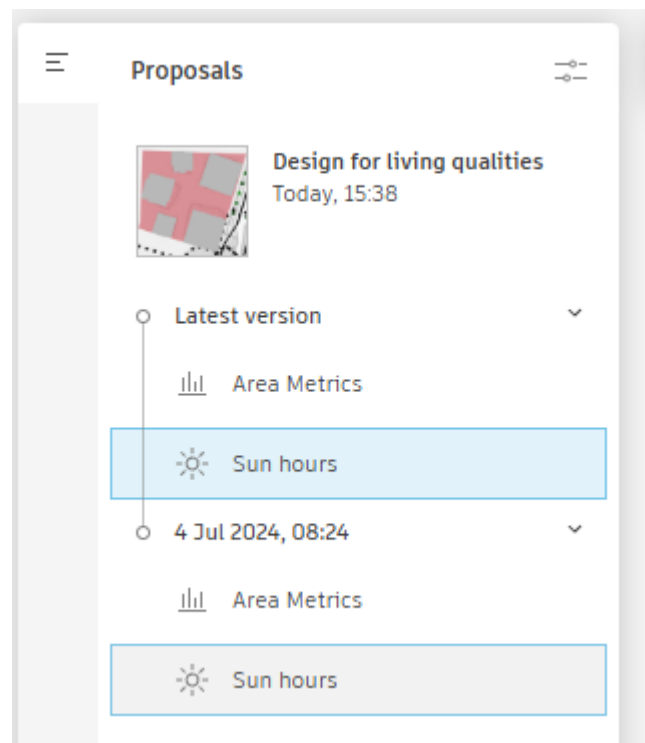


Figure 18. Available analyses.

- 19.** You should now see two concepts. The 7-story and 21-story buildings. You can inspect the sun hours, change other buildings or the dates, and instantly see the impact from any changes.

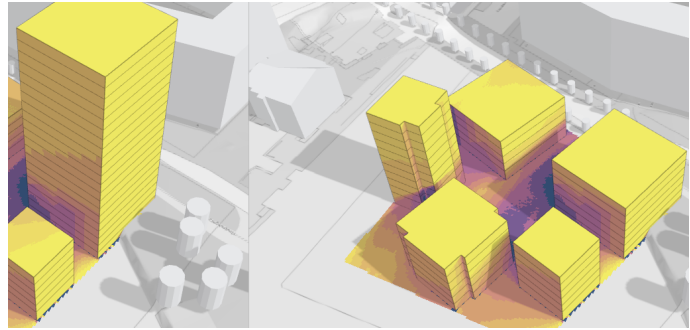


Figure 19. Comparison of multiple concept models sun hours.