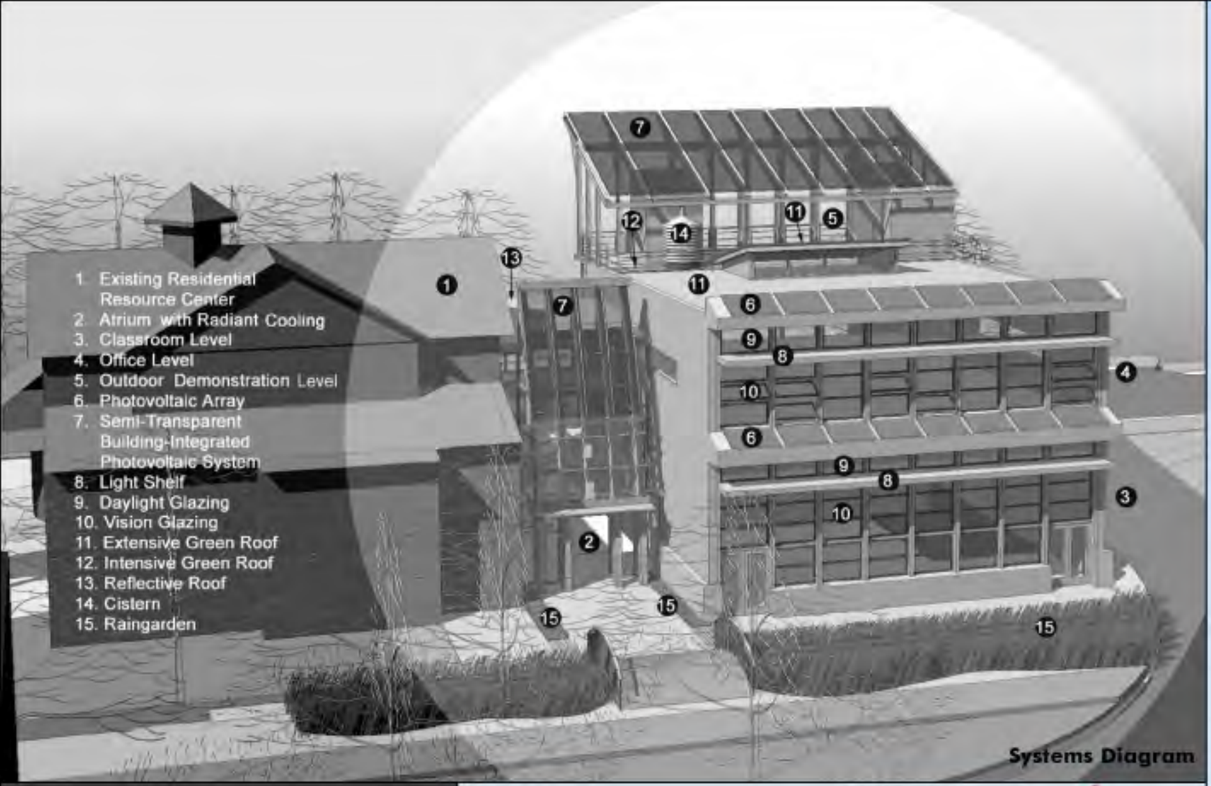
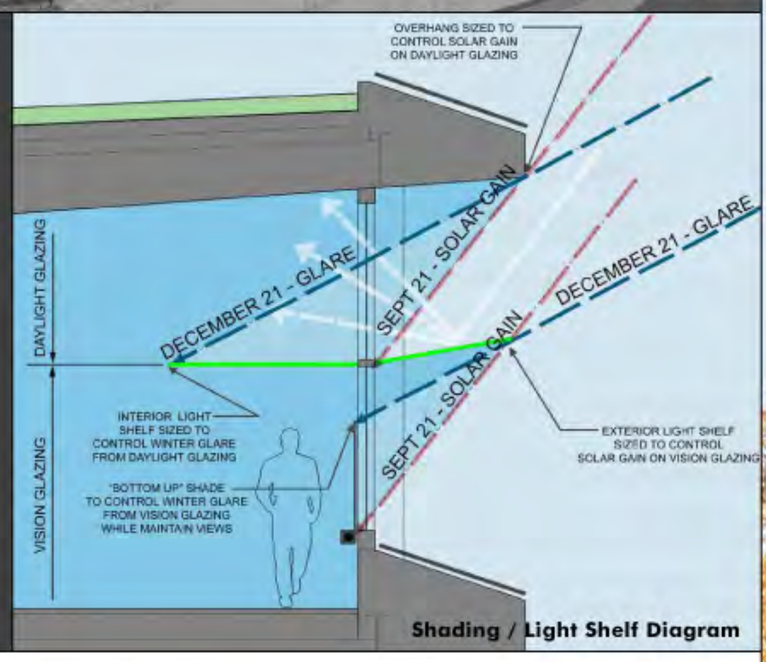


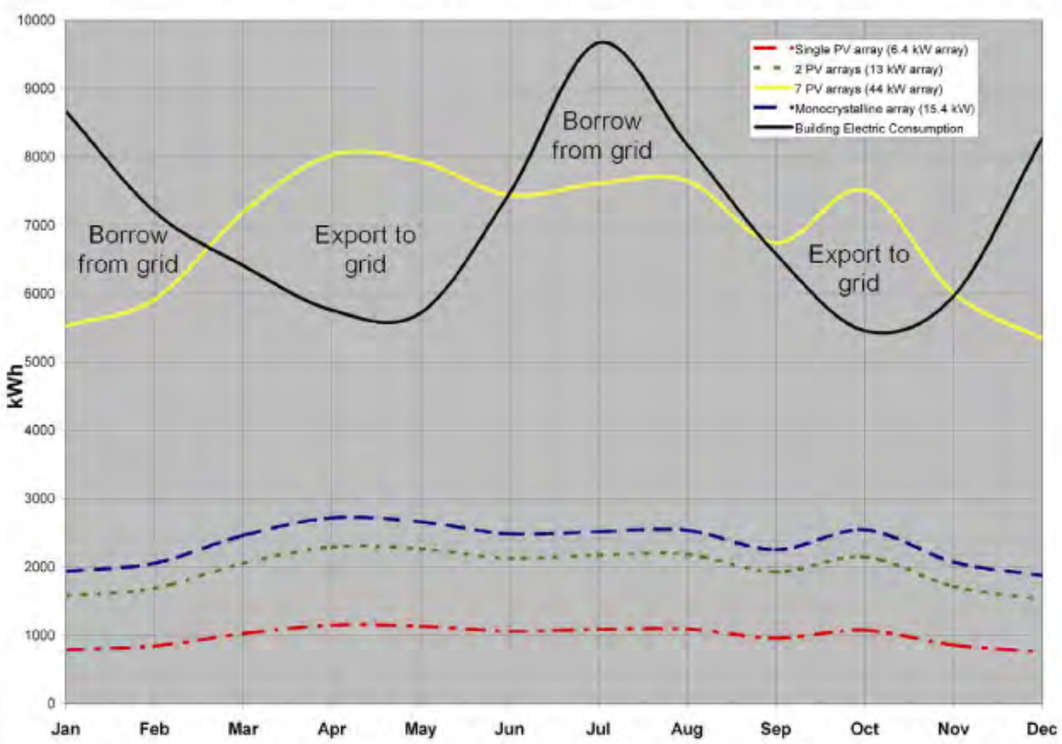
Systems Diagram

The Southface Energy Institute's Eco Office will showcase commercial green building techniques including energy efficiency and solar design, efficient water use/reuse, smart selection of materials/resources, environmentally friendly construction practices, extensive daylighting, and appropriate waste management. The aggressive goals collaboratively identified by SEI and the design team at the project's inception included LEED Platinum-level certification, 75% energy optimization beyond Code, full daylighting for routinely occupied spaces, 50% water efficiency beyond the LEED baseline, and no potable water use for irrigation or sewage conveyance. The project is currently under construction.



Shading / Light Shelf Diagram

Comparison of Building Energy Profile with PV Output of Different Arrays



ENERGY STAR Challenge Criteria:

Energy Use Intensity (EUI) = 57.6 kBtu/sf/yr

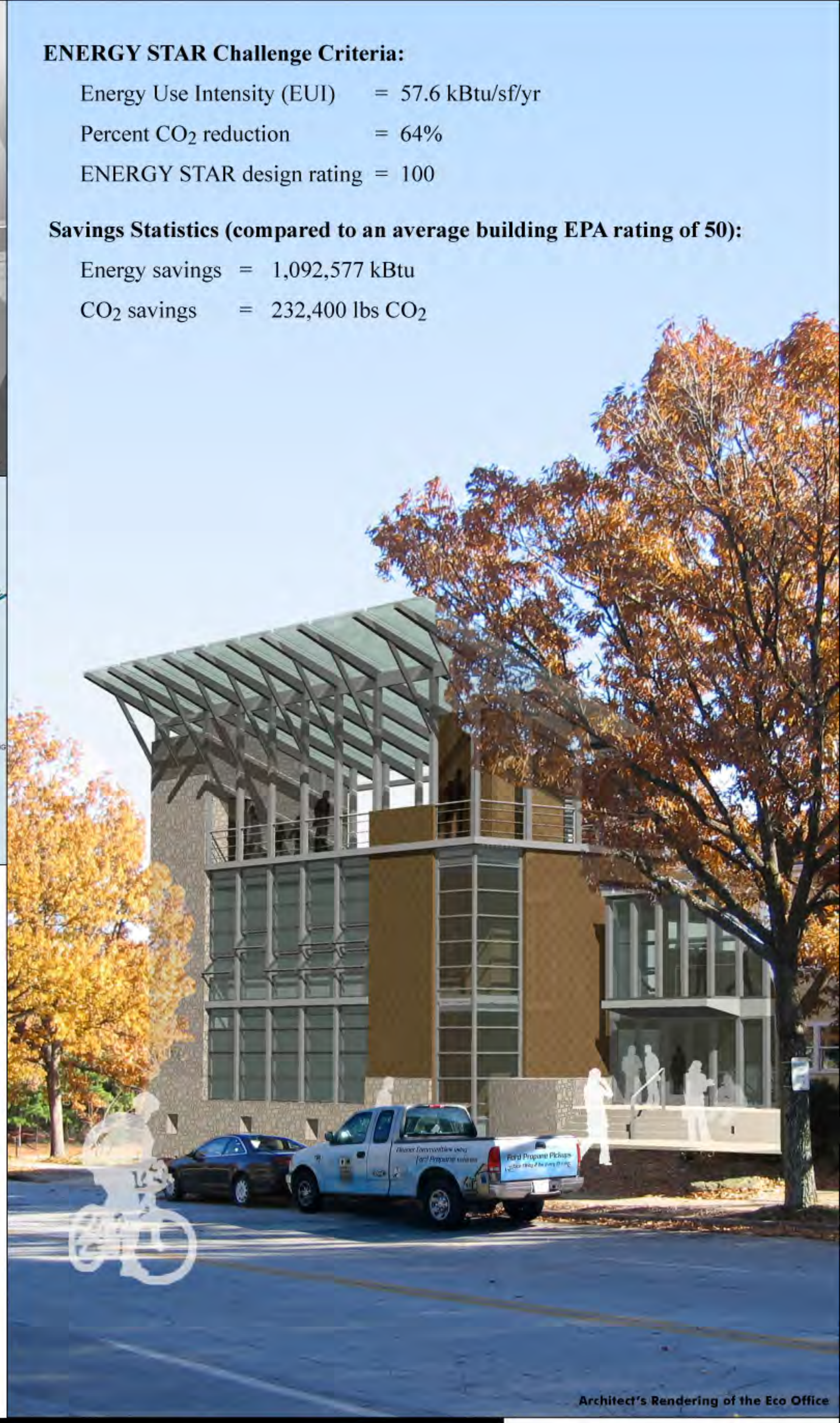
Percent CO_2 reduction = 64%

ENERGY STAR design rating = 100

Savings Statistics (compared to an average building EPA rating of 50):

Energy savings = 1,092,577 kBtu

CO_2 savings = 232,400 lbs CO_2



Architect's Rendering of the Eco Office

DESIGNED TO EARN THE ENERGY STAR

The estimated energy performance for this design meets US EPA criteria. The building will be eligible for ENERGY STAR after maintaining superior performance for one year.

The Southface Eco Office
Atlanta, Georgia

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