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Relative Impact of Moving Books to/from Offsite Storage

Jess McKnight
Smith College

Dano Weisbord
Smith College

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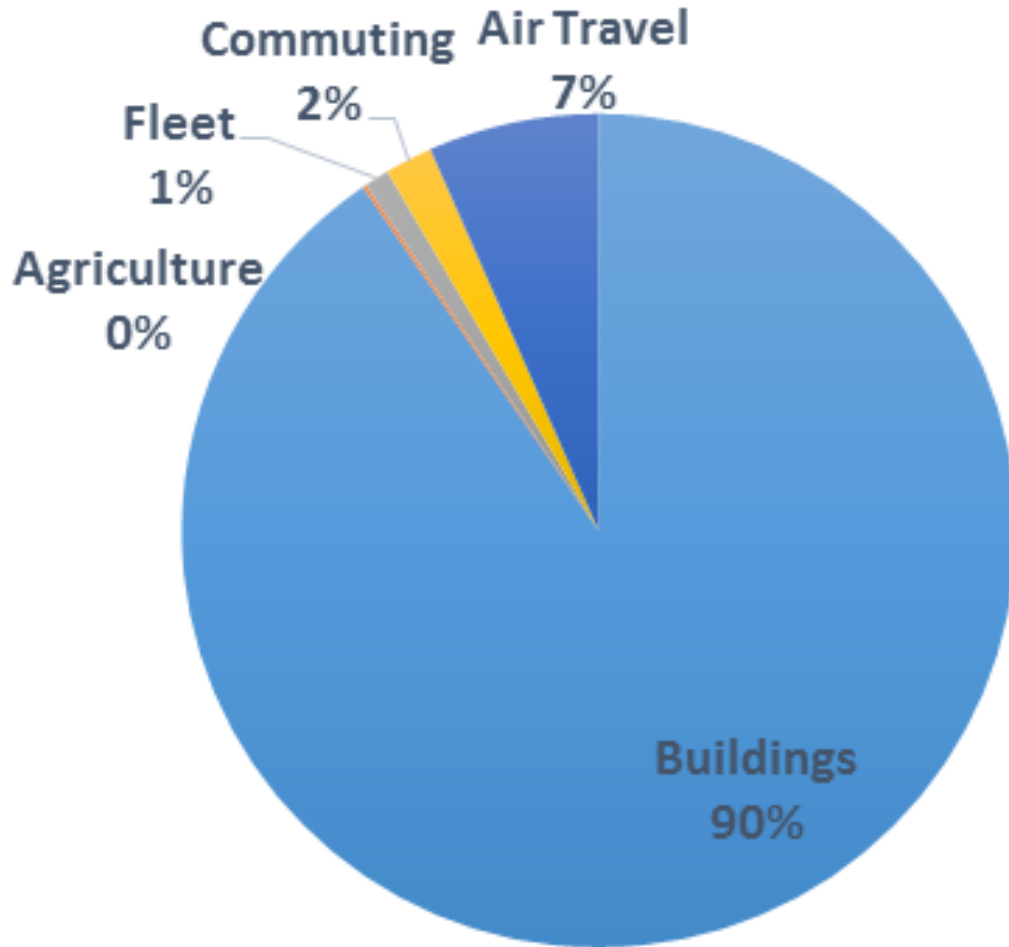
Relative
Impact of
Moving
Books
to/from
Offsite
Storage



Jess McKnight, '19
and Dano Weisbord

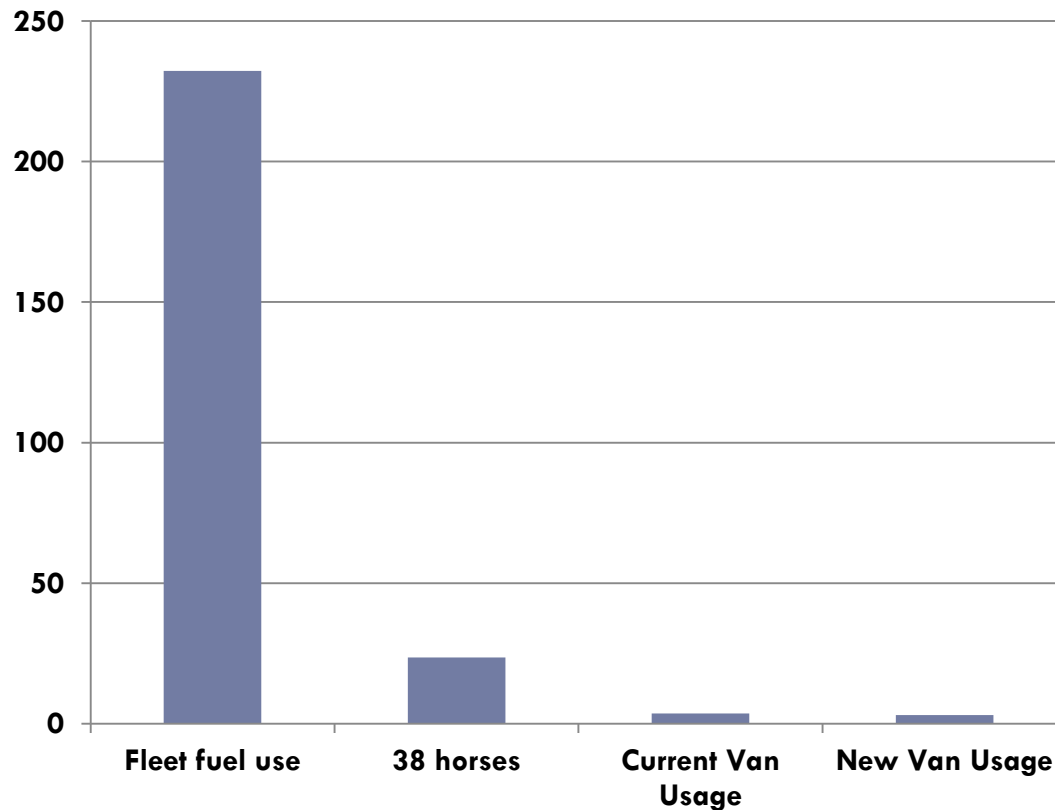
An easy job

Smith College Gross GHG Emissions 2014



This chart represents Smith's institutional carbon emissions (eCO₂). The majority of emissions stems from the buildings (90%), followed by air travel (7%), commuting by faculty and staff (2%), and fleet vehicles (1%), with agriculture (horses and fertilizer) being minimal.

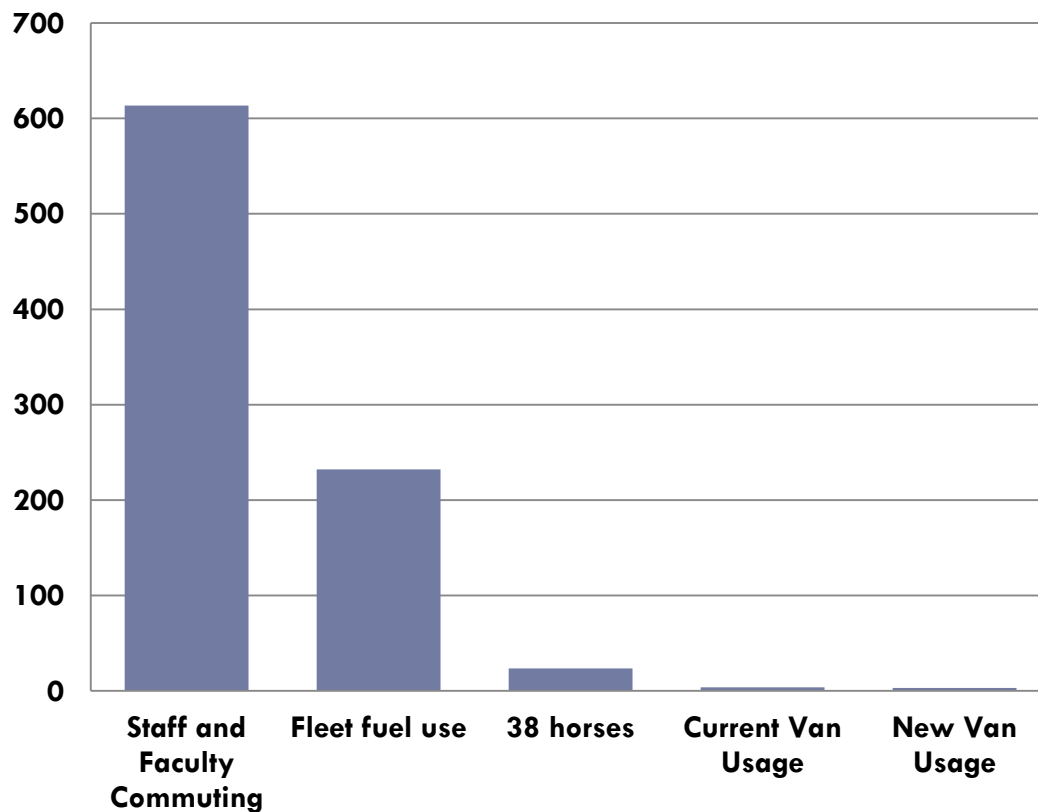
Relative Emissions Moving Books to Storage Tons eCO₂



In this chart, emissions from the operation of a van by the Five Colleges (10 trips/week, traveling 16.2 miles round-trip) are compared to the expected increase associated with “new van usage” (12 trips/week, traveling 11.4 miles round-trip) to the proposed Annex. These results are then compared to the estimated emissions of 38 horses on campus and the vehicle fleet emissions.

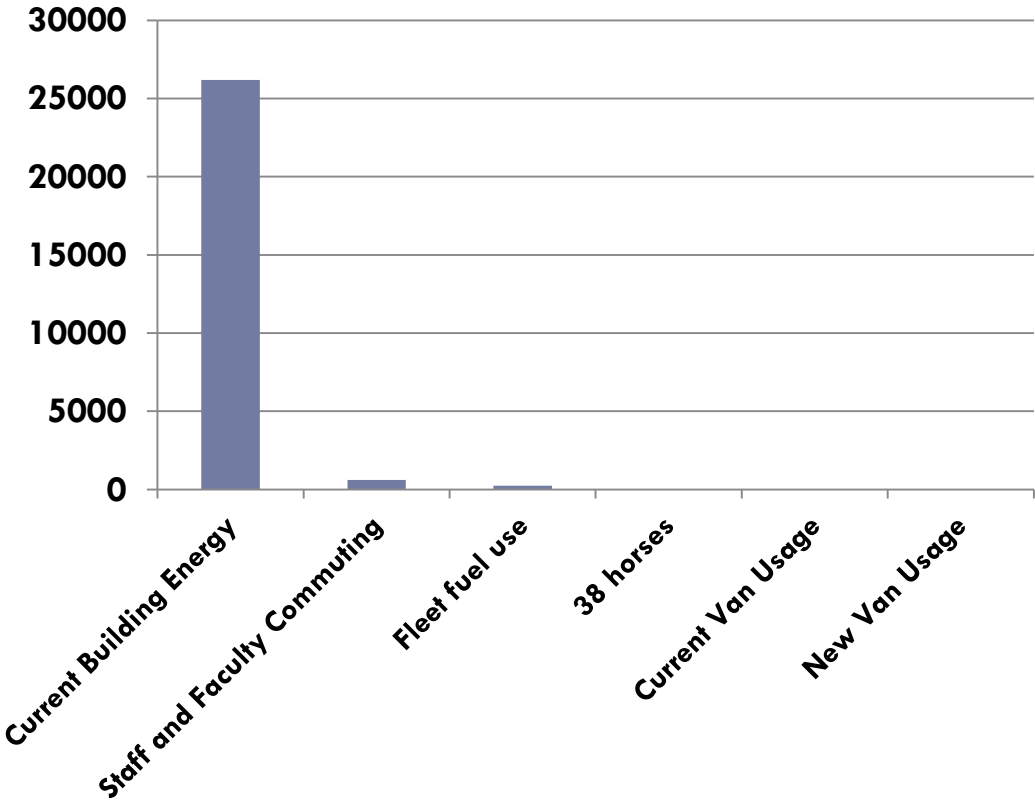
Relative Emissions Moving Books to Storage

Tons eCO₂



In this chart, staff and faculty commuting to campus are added to the previous slide's data for comparison.

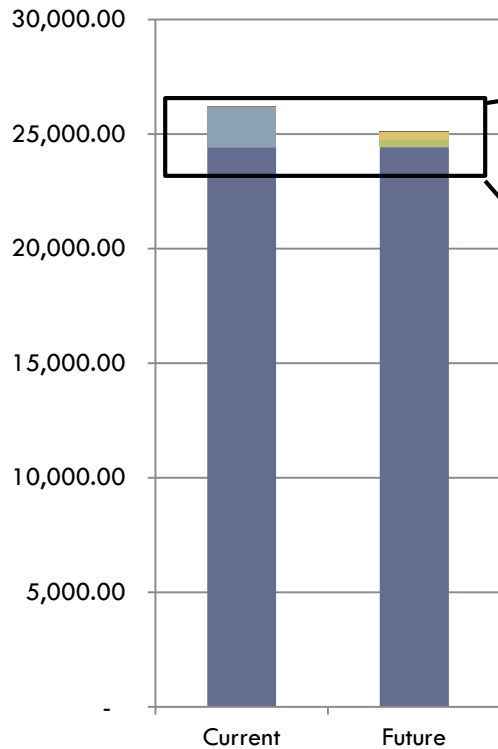
Relative Emissions Moving Books to Storage Tons eCO2



In this chart, the much larger emissions associated with all campus buildings are added to the previous data.

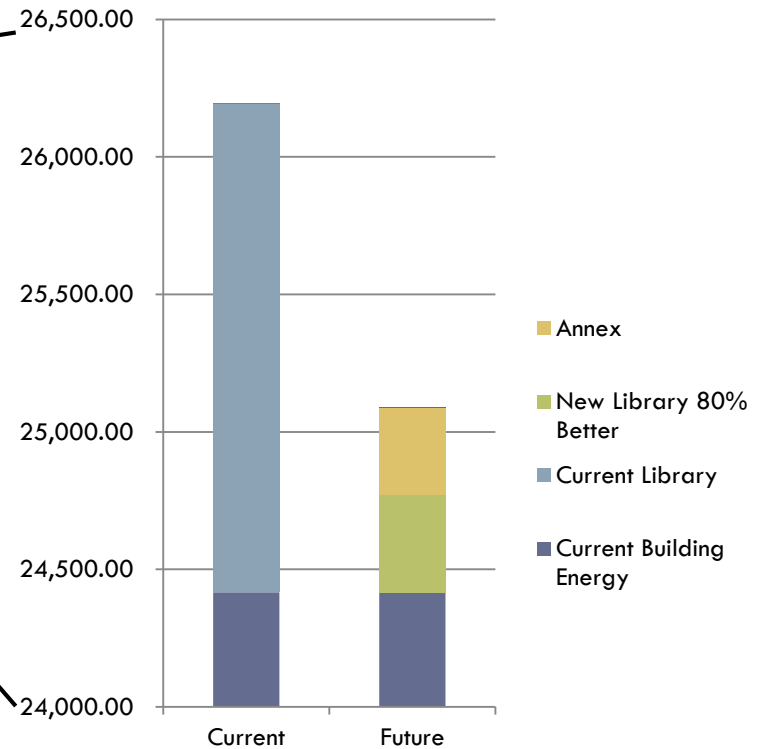
Relative Library Emissions

Tons eCO2



Relative Library Emissions

Tons eCO2



This chart shows the potential effect on building emissions assuming a new Neilson is 80% more efficient than present, and a library annex performs at average contemporary construction.

This enlargement articulates our **aspiration** for emissions from a new, more efficient Neilson + a library Annex + new van service that would reduce emissions from these services compared to existing conditions.