A financial analysis of sustainability strategies - Featuring University of Northwestern Ohio

University of Northwestern Ohio:
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Overview

- Challenges and opportunity
- Pathway to sustainability
- The case study of UNOH
- An interview ft. Jim Bronder & Steve Brown discussing the UNOH project

Colleges and universities have a tall order to fill to satisfy their stakeholders

Enrollment is fluctuating and COVID-19 has changed the higher education landscape. Embedding sustainability helps reduce costs and address deferred maintenance. Freeing operational spending previously allocated to inefficient infrastructure enables colleges and universities to focus more of their budget on their students and offerings that students care about.

$112B

Colleges and universities face an estimated collective $112 billion in deferred maintenance backlogs[1]

75%

Many colleges and universities have 75% of their campus facilities in the range of 30 to 40 years old[2]

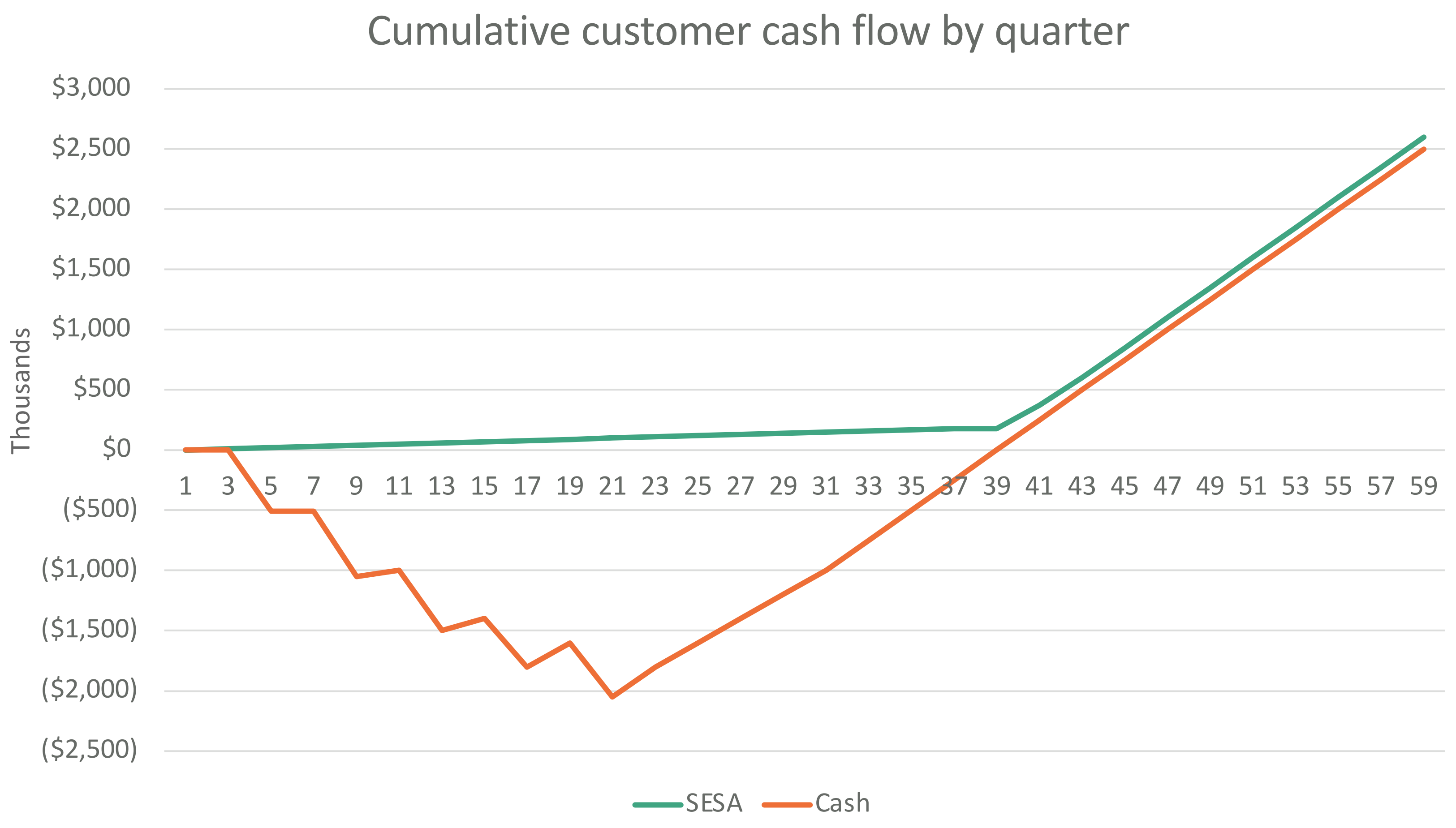
75%

75% of college applicants factor sustainability in their enrollment decision-making[3]

1. https://www.appa.org/facilities-manager/changing-the-facilities-backlog-conversation-in-higher-education/
2. https://www.appa.org/bok/capital-renewal-and-deferred-maintenance/
3. https://www.princetonreview.com/college-rankings/college-hopes-worries

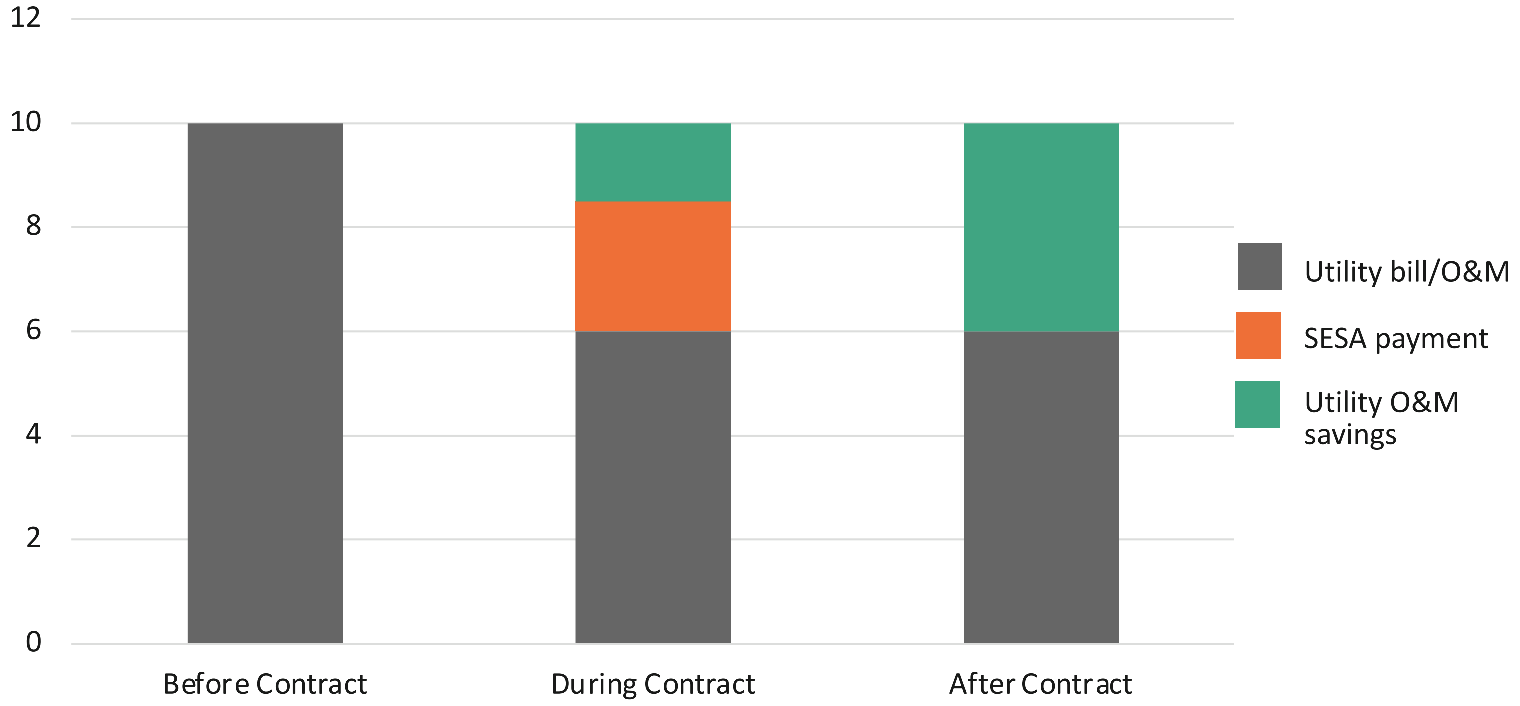
The cost of delaying projects

- Example: SESA funds 100% of $2,720,342 project cost upfront
- Capital budget is allocated over 5 periods over 5 years
- Because of the delay in implementation, customer net SESA cashflows can exceed self financed cashflows



SESA project cash flow

- SESA funds 100% of project cost in Year 0
- Customers are cash flow positive and utilize savings to pay for SESA service charges
- During SESA term, project maintenance and monitoring costs are included
- After SESA term, the customer receives 100% of savings



University of Northwestern Ohio

The University of Northwestern Ohio (UNOH) is a private university in Lima, OH. They host 4,000 students every year with 50-degree programs.

Challenges

- Reduce energy costs
- Improve energy efficiency
- Replace critical assets on campus
- Zero cash down
- 15-year term
- Cash flow positive for the project's duration.

Results

- Centrica Business Solutions worked with Metrus Energy using their Sustainable Efficiency Services Agreement as the financing vehicle to provide funding.
- Centrica Business Solutions and MSI Utilities identified the deferred maintenance needs around the campus and provided engineering and construction. They will also provide ongoing measurement and verification services.
- New LED Lighting, HVAC replacements, HVAC motor upgrades, and new water upgrades
- 28 buildings updated
- Decarbonization benefits

1.9M+
kWh of electricity saved annually

7.3M+
gallons of water savings annually

957
Tons of CO_2 emissions reduced annually

$354k+
Dollars saved annually

An optimized implementation path could look like this:

	Plan	Step 1: Reduce Energy		Step 2: Convert Energy		Step 3: Enhance Energy	
Power	Develop Roadmap	LED Lighting and Controls		Solar PV	Storage	Demand Response	Microgrid
HVAC and Water		HVAC and Mechanicals	Water Conservation	Heat Pumps			
Building		Building Envelope	Building Automation Systems				
Vehicles				EV Fleet Charging	EV Workplace Charging		

Thank you

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