

CASE STUDY

Turning occupancy data into measurable energy savings

Supporting sustainability goals through smarter building operations

Serving its local community through a diverse portfolio of public buildings, the municipality manages facilities including schools, offices and community spaces. It has committed to reducing greenhouse gas emissions by 50% by 2030 and achieving net zero by 2045.

The municipality had already optimized HVAC operating schedules, but saw further potential to reduce energy use by taking occupancy into account.

Using Building X Space Manager, the municipality analyzed occupancy patterns and identified periods when air handling units were running despite little or no space utilization. This helped teams refine HVAC schedules, reduce unnecessary runtime and identify additional energy-saving opportunities.

Delivering measurable results



21%

average reduction
in HVAC runtime across
two government buildings.



Up to

27%

**reduction in operating
hours** achieved through
occupancy-based schedule
optimization.



More than

5 hours

**daily HVAC runtime
eliminated** across both
buildings combined.

Additional energy savings beyond previous optimization efforts by

uncovering new opportunities through occupancy insights.

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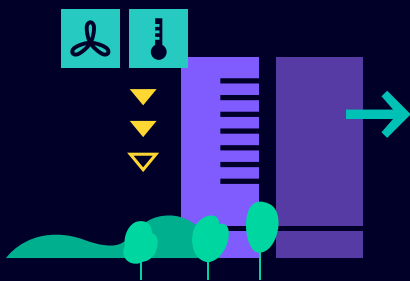
From occupancy insights to operational action

Predefined HVAC schedules did not always reflect how buildings were actually being used. In two government buildings, air handling units continued operating during periods of low occupancy, creating an opportunity to reduce unnecessary energy use.

Using the Building X Space Manager App and Building Schedule Recommendation,

the municipality compared occupancy patterns with HVAC schedules to identify opportunities for more efficient operation.

Unused space detected provided additional visibility into underutilized areas, helping teams quantify potential savings before making operational changes.



Results by building

Government building A

- 23% average reduction in HVAC operating time
- More than 3 hours of daily HVAC runtime eliminated on average

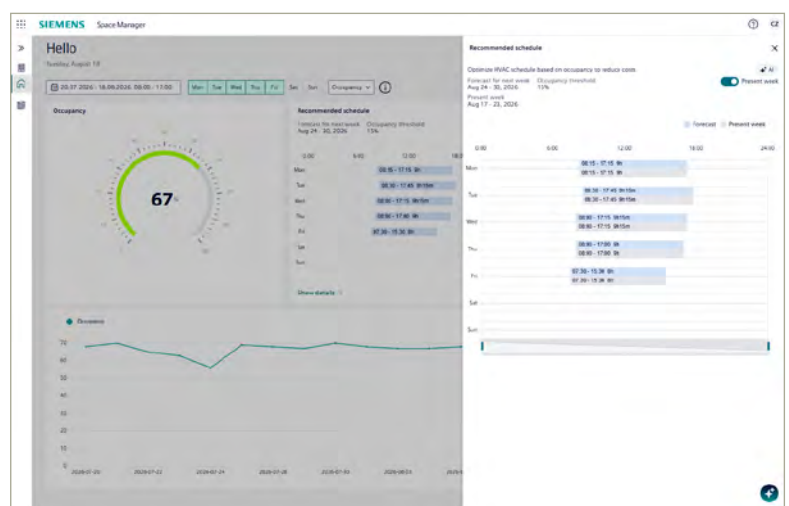
Government building B

- 19% average reduction in HVAC operating time
- More than 2 hours of daily HVAC runtime eliminated on average

Building a foundation for continuous improvement

The project demonstrated how occupancy data can help uncover energy-saving opportunities that may not be visible through traditional building management approaches alone.

By transforming occupancy insights into operational actions, the municipality was able to further reduce HVAC runtime, improve visibility into building utilization, and support its broader sustainability objectives.



Learn more about Building X Space Manager

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