

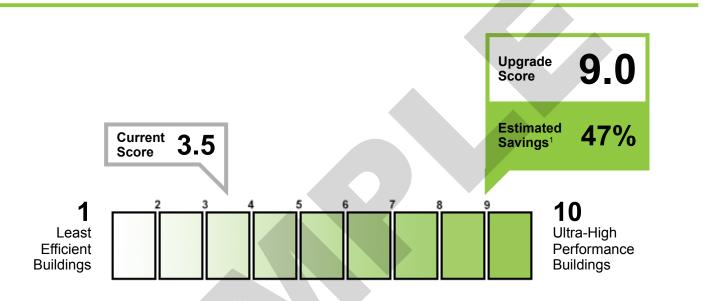
OVERALL BUILDING SCORE

BUILDING INFORMATION

Example Building - Mixed Use 123 Example Street Chicago, IL 60606 Building Type: Gross Floor Area: Year Built:

Mixed Use 40,000 ft² 1980 Score Date: Building ID #: Software Release:

04/21/2020 XXXXX 2020.1.0.1310



Building Use	Types		Estimated Source En	ergy Use (kBtu/ft²)	Energy Use Intensity by Fuel Type
building as we	32,000 ft ² 8,000 ft ² cludes a Score for the ell as individual Score eparate use types.	ie entire	Current Building Upgraded Building	191 102	Site Energy Use (kBtu/ft ²) Source Energy Use (kBtu/ft ²) Fuel Type [Site EUI , Source EUI] Gas [15.7, 16.5] Electricity [55.6, 174.6] District Hot Water [0.0, 0.0] District Steam [0.0, 0.0] Propane [0.0, 0.0] Fuel Oil [0.0, 0.0] District Cooling [0.0, 0.0]

The **Building Energy Asset Score** is a national rating system developed by the U.S. Department of Energy. The **Score** reflects the energy efficiency of a building based on the building's structure, heating, cooling, ventilation, and hot water systems. The building's **Structure and Systems** are individually evaluated and ranked. The **Upgrade Opportunities** page provides recommendations for how to improve the building's energy efficiency, increase the building's Asset Score, and save money.

¹ Savings reflect the reduction in source energy that would result from undertaking all of the user-selected energy efficiency measures identified on the **Upgrade Opportunities** page. Actual savings will depend on a variety of factors including actual operating conditions.



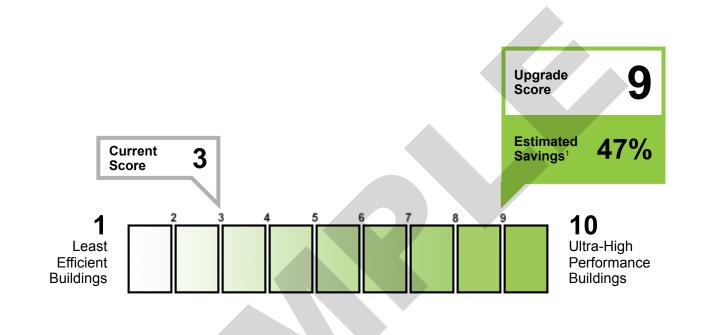
This report is based on self-reported building information. http://energy.gov/eere/buildings/building-energy-asset-score



SCORE: OFFICE PORTION

Building Name: Example Building - Mixed Use 2020

Gross Floor Area: 32,000 ft²



Standard Occupancy and Conditions	Operating	Estimated Source En	ergy Use (kBtu/ft²)	Energy Use Intensity by Fuel Type
Number of Assumed Occupants Hours of Operation	159 48.6 hrs/wk	Current Building Upgraded Building	190 101	Site Energy Use (kBtu/ft²) Source Energy Use (kBtu/ft²)
Cooling Set Point Heating Set Point Misc. Energy Loads	75° F 70° F 0.75 W/ft²			Fuel Type [Site EUI , Source EUI] Gas [13.8, 14.5] Electricity [55.9, 175.6] District Hot Water [0.0, 0.0] District Steam [0.0, 0.0] Propane [0.0, 0.0] Fuel Oil [0.0, 0.0] District Cooling [0.0, 0.0]

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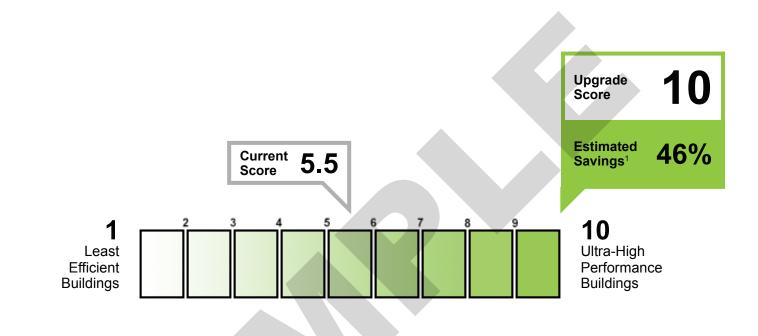
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SCORE: RETAIL PORTION

Building Name: Example Building - Mixed Use 2020

Gross Floor Area: 8,000 ft²



Standard Occupancy and C Conditions	Operating	Estimated Source En	e rgy Use (kBtu/ft²)	Energy Use Intensity by Fuel Type
Number of Assumed Occupants Hours of Operation	119 46.3 hrs/wk	Current Building Upgraded Building	195 105	Site Energy Use (kBtu/ft ²) Source Energy Use (kBtu/ft ²)
Cooling Set Point Heating Set Point Misc. Energy Loads	75° F 70° F 0.30 W/ft ²			Fuel Type [Site EUI , Source EUI] Gas [23.1, 24.3] Electricity [54.4, 170.8] District Hot Water [0.0, 0.0] District Steam [0.0, 0.0] Propane [0.0, 0.0] Fuel Oil [0.0, 0.0] District Cooling [0.0, 0.0]

¹ Savings reflect the reduction in source energy that would result from undertaking all of the user-selected energy efficiency measures identified on the **Upgrade Opportunities** page. Actual savings will depend on a variety of factors including actual operating conditions.



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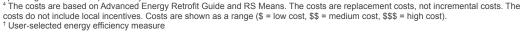
UPGRADE OPPORTUNITIES

Building Name: Example Building - Mixed Use 2020

Gross Floor Area: 40,000 ft²

Cost Effective Upgrade Opportunities	Energy Savings ³	Cost⁴
Building Envelope		
• Add air barrier to reduce building air leakage. [†] - Learn More	Low	\$\$
• Upgrade the window Office windows in Office Block. [†] - <i>Learn More</i>	Medium	\$\$-\$\$\$
• Add insulation to roof Roof 1 in Retail Block and Office Block. [†] - Learn More	Low	\$-\$\$
• Add insulation to wall Wall 1 in Retail Block and Office Block. [†] - Learn More	Low	\$\$-\$\$\$
ighting Systems		
• Replace existing lighting for Fixture 1 to LED lighting in Office Block and Retail Block. † - Learn More	Medium	\$
• Install occupancy sensors for interior lighting control in Office Block - Learn More	Low	\$-\$\$
IVAC Systems and Controls		
• Add air-side economizer in Office Block, Retail Block - Learn More	Medium	\$-\$\$
• Implement demand controlled ventilation (DCV) in Retail Block - Learn More	Medium	\$\$
• Add variable frequency drive to supply fans in Office Block, Retail Block - Learn More	Medium	\$\$
Service Hot Water Systems		
Add low flow faucets in Office Block, Retail Block - Learn More	Low	\$\$

³ The energy savings range reflects the expected incremental savings for the overall building associated with the specific efficiency upgrade opportunity assuming all other recommended upgrades have already been implemented. This assumption is made to avoid double counting of savings. The ranges reflect site energy savings and are based on standard operating assumptions, unless actual operating conditions are provided by the user.
⁴ The costs are based on Advanced Energy Retrofit Guide and RS Means. The costs are replacement costs, not incremental costs. The The costs are based on Advanced Energy Retrofit Guide and RS Means. The costs are replacement costs, not incremental costs.







STRUCTURES AND SYSTEMS

Building Name: Example Building - Mixed Use 2020

Gross Floor Area: 40,000 ft²

ABOUT THE BUILDING SYSTEMS

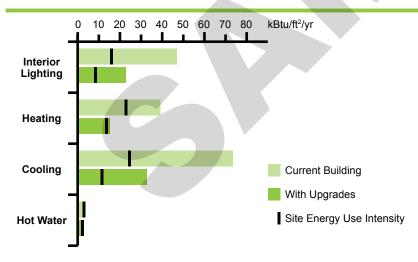
	Ranking⁵
Interior Lighting	Fair
Whole Building HVAC System TSPR	Good
Packaged Rooftop Unit	Good

ABOUT THE BUILDING ENVELOPE

	Ranking⁵
Roof U-Value, Non-Attic (Btu/tt²-h·°F)	Fair
Walls U-Value, Framed (Btu/ft²·h.°F)	Fair
Windows U-Value (Btu/ft²·h·°F)	Fair
Walls + Windows U-Value (Btu/ft²·n.°F)	Fair
Window Solar Heat Gain Coefficient	Good

*System evaluation is not based on a verified TSPR

SOURCE ENERGY USE INTENSITY BY END USE



5 Ranking Range:

Fair: Building Envelope or Building Systems are less efficient than a typical building built to the AHSRAE 90.1-2004 energy code. Superior: Building Envelope is more efficient than a typical building built to the AHSRAE 90.1-2013 energy code. Building Systems exceed the highest efficiency levels with market viable technologies. Good: Building Envelope or Building Systems are between Fair and Superior. N/A: The building does not have a heating or a cooling system, or the loads are too low for the system to be effectively ranked.





Building Name: Example Building - Mixed Use 2020

Retail Block CHARACTERISTICS SUMMARY

Geometry

			ourient Building
Above Ground: 1 floor Below Ground: 0 floors		Window VT	Estimated
Floor-to-Floor Height15.00 ftFloor-to-Ceiling Height:12.00 ft		Window Layout	Continuous
Orientation: 90.0° from North Use Type: Retail	80	Window-to-Wall Ratio	0.6
		Exterior Shading Type	External Overhangs
	<u>↓</u> 	Infiltration	·
	100′ Current Building	Energy code the building complies with	Estimated
Dest		Lighting	
Roof		Lighting Power Density	1.33 W/ft ²
Roof	Roof 1	Fixture	Fixture 2
Roof Type	Built-up w/ metal deck	Lighting Type	LED
Intended Occupancy Type	Non-Residential	Mounting Type	Recessed
Skylights		Lamp Wattage	12 W/lamp
		Lamps per Fixture	1
No Skylights		Percent Served	50.0%
Floor		Fixture	Fixture 1
Floor	Floor 1	Lighting Type	Fluorescent T8
Floor Type	Slab-on-Grade	Mounting Type	Pendant
Slab Insulation	Vertical Insulation	Lamp Wattage	32 W/lamp
Floor R-value	30.0 °F·ft ² ·h/Btu	Lamps per Fixture	2
Walls and Windows		Percent Served	50.0%
		Heating/Cooling	
All Surfaces		Thermal Zone Layout	Estimated
Wall	Wall 1	Perimeter Zone Depth	15.0 ft
Wall Type	Brick/Stone on masonry	Primary Heating/Cooling System	Packaged Rooftop Unit
Wall U-value	Estimated	System Type	Pkgd AC
Window	Retail windows	Cooling Equipment	C C
Window Framing Type	Wood/Vinyl/Fiberglass	Cooling Source	Central DX
Window Glass Type	Double Pane w/ Low-E	Year of Manufacture	2000
Window Gas Fill Type	Other	# Pieces of Equipment	4
Intended Occupancy Type	Non-Residential	Efficiency	2.85 COP
Window SHGC	Estimated	-	

U.S. DEPARTMENT OF

^{*} This value was not directly entered by the user. It was generated by the Asset Scoring Tool based on other building data provided. The user can re-score the building using actual information about this building characteristic if available.

" Standard operating assumptions are used for building optimization if no values are entered by the user.

" 'Default' indicates the use of default assumptions for advanced system parameters not specified in the tool.

Gross Floor Area: 8,000 ft²

Current Building



Building Name: Example Building - Mixed Use 2020

Gross Floor Area: 8,000 ft²

	Current Building
Capacity	10.00 tons
Heating Equipment	
Heating Source	Central Furnace
Fuel Type	Natural Gas
Thermal Efficiency	Estimated
Distribution	
Distribution Type	Single Zone
Fan Systems	
Total System Fan Power	Default
Fan Motor Efficiency	84.0%
Fan Mechanical Efficiency	56.0%
Fan Control	Constant Volume
Service Water Heating	
Water Heater	Natural Gas
Fuel Type	Natural Gas
Water Heater Efficiency	80.00%
Operationa	

Operations

The information in this section is not required and does not affect the current Asset Score. If provided, it is only used to identify upgrade opportunities, which are considered in generating the potential score.

Operation	Retail Operations
Miscellaneous Electric Load	2.0 W/ft ²
Miscellaneous Gas Load	Standard"
Total Occupants	50 total occupants
Setpoint Heating	72.0 °F
Setpoint Cooling	76.0 °F
Weekdays	8:00am - 7:00pm
Saturdays	9:00am - 6:00pm
Sundays	9:00am - 6:00pm

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Building Name: Example Building - Mixed Use 2020

Office Block CHARACTERISTICS SUMMARY

Geometry

Window VT	Estimated
	Loumateu
Window Layout	Continuous
Window-to-Wall Ratio	0.4
Exterior Shading Type	No Shading
Infiltration	
100' Energy code the building complies with	Estimated
Lighting	
Lighting Power Density	1.15 W/ft ²
Fixture	Fixture 1
w/ metal deck Lighting Type	Fluorescent T8
esidential Mounting Type	Pendant
Lamp Wattage	32 W/lamp
Lamps per Fixture	2
Percent Served	100.0%
Heating/Cooling	
Thermal Zone Layout	Perimeter and core
-Grade Perimeter Zone Depth	15.0 ft
Insulation Primary Heating/Cooling System	Packaged Rooftop Unit
·ff ² ·h/Btu System Type	Pkgd AC
Cooling Equipment	
Cooling Source	Central DX
Year of Manufacture	2000
tone on masonry # Pieces of Equipment	4
Efficiency	2.85 COP
Capacity	10.00 tons
Heating Equipment	
Pane Heating Source	Central Furnace
Fuel Type	Natural Gas
u/°F·ft²·h Thermal Efficiency	Estimated
Distribution	
	100' t BuildingInfiltration100' t BuildingEnergy code the building complies withLightingEnergy code the building complies withLighting Power DensityEisturep w/ metal deckLighting TypeesidentialLighting TypebuildingLighting TypeLamp WattageLamp WattageLamps per FixturePercent ServedHeating/CoolingThermal Zone LayoutPerimeter Zone DepthPrimary Heating/Cooling Systempt/f²-h/BtuSystem TypeCooling EquipmentCooling SourceYear of Manufacture# Pieces of Equipmentted'EfficiencywindowsHeating SourcePaneHeating Sourcetu/°F-ff²-hThermal Efficiencytu/°F-ff²-hThermal Efficiency

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Gross Floor Area: 32,000 ft²

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Building Name: Example Building - Mixed Use 2020

Gross Floor Area: 32,000 ft²

	Current Building
Distribution Type	Single Zone
Fan Systems	C C
Total System Fan Power	Default
Fan Motor Efficiency	84.0%
Fan Mechanical Efficiency	56.0%
Fan Control	Constant Volume
Service Water Heating	
Water Heater	Natural Gas
Fuel Type	Natural Gas
Water Heater Efficiency	80.00%
Operations	
The information in this section is not required an Score. If provided, it is only used to identify uppr considered in generating the potential score.	d does not affect the current As ade opportunities, which are
Operation	Office Operations
Miscellaneous Electric Load	4.0 W/ft ²
Miscellaneous Gas Load	Standard"
Total Occupants	450 total occupants
Setpoint Heating	72.0 °F
Setpoint Cooling	76.0 °F
Weekdays	8:00am - 7:00pm
Elevator	Elevator 1
Elevator Type	Hydraulic
Number of Elevators	1

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