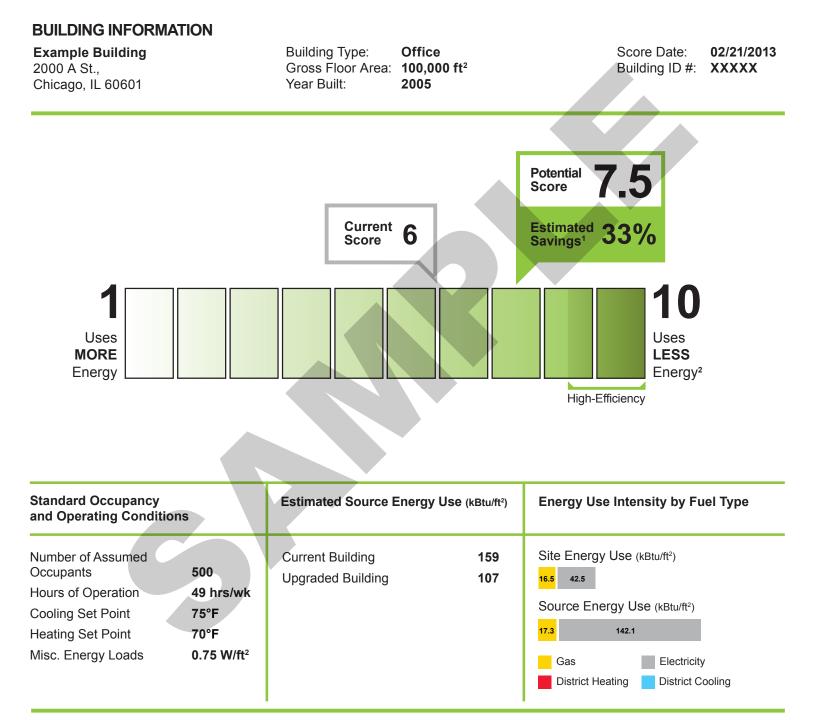
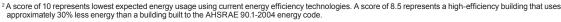
# COMMERCIAL BUILDING ENERGY ASSET SCORE OVERALL BUILDING SCORE



The **Commercial 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 commercial 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.

<sup>1</sup> Savings reflect the reduction in source energy that would result from undertaking all of the efficiency improvements 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/commercial-building-energy-asset-score

U.S. DEPARTMENT OF

ENERGY

1

# COMMERCIAL BUILDING ENERGY ASSET SCORE UPGRADE OPPORTUNITIES

Building ID #: XXXXX

Gross Floor Area: 100,000 ft<sup>2</sup>

#### COST EFFECTIVE UPGRADE OPPORTUNITIES Energy Savings<sup>4</sup> Cost<sup>5</sup> **Building Envelope** · Add roof insulation in Office Medium \$\$ Learn More · Upgrade windows in Office with high performance double pane windows Medium Learn More \$\$ Interior Lighting · Upgrade Fluorescent T8 lighting system in Office to compact High \$ fluorescent lighting system Learn More **HVAC Systems** • Upgrade cooling system in Office with high efficiency \$\$\$ High electric DX cooling system Learn More Add supply air temperature reset to HVAC system in Office Learn More Low \$ **Hot Water Systems** · Upgrade service hot water system in Office with electric heat pump Medium \$\$ water heater Learn More



# COMMERCIAL BUILDING ENERGY ASSET SCORE STRUCTURE AND SYSTEMS

Building ID #: XXXXX

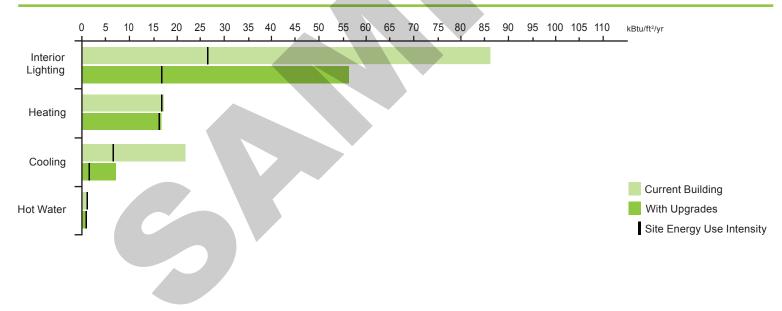
Gross Floor Area: 100,000 ft<sup>2</sup>

### ABOUT THE BUILDING SYSTEMS

### ABOUT THE BUILDING ENVELOPE

	Ranking <sup>6</sup>		Ranking <sup>6</sup>
Interior Lighting	Fair	Roof U-Value, Non-Attic (Btu/ft² h °F)	Good
Heating	Good	Floor U-Value, Mass (Btu/ft <sup>2</sup> h °F)	Good
Cooling	Good	Walls U-Value, Framed (Btu/ft <sup>2</sup> h *F)	Good
Overall HVAC Systems	Good	Windows U-Value (Btu/ft <sup>2</sup> h °F)	Fair
Hot Water	Fair	Walls + Windows U-Value (Btu/ft <sup>2</sup> h °F)	Fair
		Window Solar Heat Gain Coefficient	Fair

### ENERGY USE INTENSITY BY END USE





### COMMERCIAL BUILDING ENERGY ASSET SCORE BUILDING ASSETS

Building ID #: XXXXX

Gross Floor Area: 100,000 ft<sup>2</sup>

#### **BUILDING SYSTEM CHARACTERISTICS SUMMARY**

Geometry Above Ground:	2 floor	$\rightarrow$	Current Building
Below Ground: Floor-to-Floor Height:	0 floor 14 ft 200.0 ft	Shading	
Floor-to-Ceiling Height:	9 ft	Exterior Shading Type:	External overhang
Orientation:	0.0° from North	Height Above Window:	0 ft
Use Type:	Office ¥	Projection:	2 ft
	Current Building	Skylight	
Roof		Skylights Installed:	No
Roof Type:	Built-up/EPDM w/metal deck	Indoor Lighting	
Roof U-Value:	U-0.056 BTU/(hr-ft °F)		Т8
		Lighting Type: Mounting Type:	Recessed
Wall		Percent of Total Floor Area Served:	100%
		Occupancy Controls:	Yes
Exterior Wall Type:	Mass Wall–8" HW Concrete	Daylighting Controls:	No
Wall U-Value:	Estimated*	Lighting Power Density:	Estimated*
Floor			
Floor Type:	Slab-on-Grade		
Windows			
Window Frame Type:	Metal		
Glass Type:	Single pane		
Gas Fill Type:	None		
Window Layout:	Continuous		
Window to Wall Ratio:	0.4		
Window U-Value:	U-0.68 BTU/(hr-ft °F)		
Window SHGC:	0.6		
Window VT:	Estimated*		

\*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.

\*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.



### COMMERCIAL BUILDING ENERGY ASSET SCORE BUILDING ASSETS

Building ID #: XXXXX

Gross Floor Area: 100,000 ft<sup>2</sup>

#### **BUILDING SYSTEM CHARACTERISTICS SUMMARY**

		i admity operation			
	Current Building		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.		
Cooling		3			
Cooling Type: Year of Manufacture: Efficiency (COP):	Packaged single zone DX 2005 Estimated*	Miscellaneous Electric Load: Miscellaneous Gas Load: Opening Time - Closing Time: Total Occupants: Setpoint, Heating:	4W/ft² 0 kBtu/ft² 8AM – 7PM 450 72°F		
Heating		Setpoint, Cooling:	76°F		
Heating Type: Year of Manufacture:	Furnace 2005				
# Pieces of Equipment:	1				
Efficiency:	82%				
Fuel Type:	Gas				
Ventilation					
Fan Efficiency:	54%				
Service Hot Water					
Fuel Type:	Gas				
Heat Pump Installed:	No				
Distribution Type:	Distributed				
Water Heater Efficiency:	80%				
Tank Volume:	Estimated*				
Tank Insulation Thickness:	Estimated*				

**Facility Operation** 



Sample report version 07/09/14