

Building Name

Your EUI

Building Address

Time Frame: Jan - Dec 2018

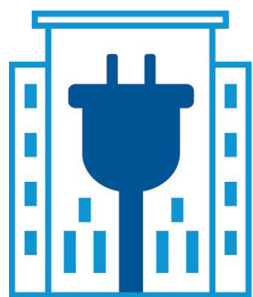
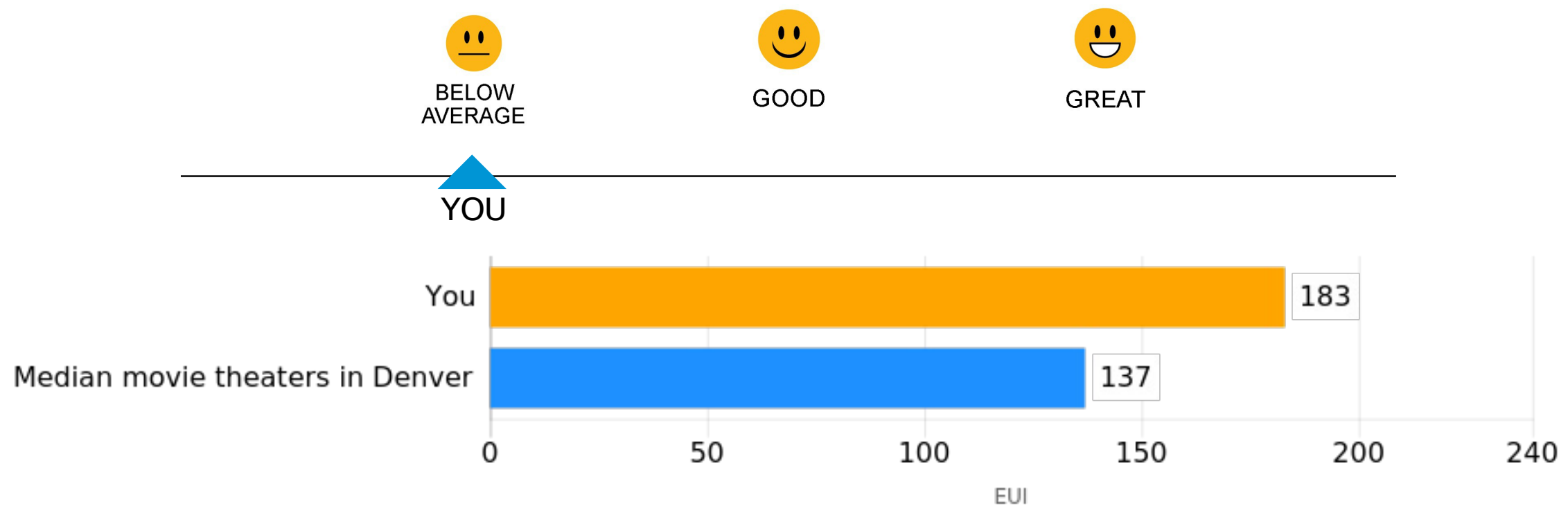
Square Footage: 32,696

Year Built: 2016

Denver Building ID: XXXX

183 (kBtu/sq ft)

HOW ARE YOU DOING?



To achieve our City's Climate goals all buildings need to become 30% more energy efficient



Which could annually save this building \$27,861

Energy use intensity (EUI) is the energy used per square foot in a building. The lower your EUI the better.

Click [here](#) to view similar buildings and select your own comparison criteria.

[IS THIS SCORECARD HELPFUL? TAKE OUR SHORT SURVEY.](#)

Climate and Health

51% of Denver's greenhouse gas emissions come from the energy used in large commercial and multifamily buildings, and Denver is committed to reduce greenhouse gas emissions 80% x 2050. If worldwide emissions continue to rise, by the end of the century Denver could potentially see 72 days of temperatures above 100°F a year. During 1970 – 1999 the Denver area averaged less than one day a year above 100°F. Improving energy efficiency in buildings is pivotal to meeting our goals and ensuring a healthy, sustainable future for our friends, family, and neighbors.

A recent study led by Harvard's T.H. Chan School of Public Health discovered that green buildings improve occupant cognitive function. Individuals in the study that saw improved cognitive performance on average slept better at night and reported fewer overall health problems. Read more about green buildings and health [here](#).

Energy Efficiency Checklist

✓ **Benchmark your building.** Complete!

- Upgrade lighting.** If every lightbulb in your building hasn't already been converted to LED with occupancy and daylight sensors, then you're missing out on big energy savings!
 - Return: 1-3 year payback, usually on the shorter side of that range.
 - Cost: Xcel Energy rebates are available for a wide range of lighting projects and applications. For limited-time offers, visit the Xcel [Lighting Efficiency webpage](#).

- Tune-up your building (recommissioning).** Improve the efficiency of your current building operations by tuning up existing systems to run as efficiently as possible, through identification and implementation of low- or no-cost improvements. 16% energy savings realized on average.
 - Return: Payback ranges from 0.2-2.2 years, with an average of 1.3 years. Typical recommended measures include Equipment Scheduling, Optimizing Airside Economizer, Demand Control Ventilation, Temperature Reset Strategies, and more.
 - Cost: Xcel Energy will pay up to 75% of the cost of a Recommissioning study, not to exceed \$25,000. Rebates can then cover up to 60 percent of implementation cost. To get started, visit the Xcel [Recommissioning webpage](#).

- Train Staff and Educate Occupants.** Improve the efficiency of your building operations by educating those who live and work within it. Knowing when systems, lights etc. should be on/off is an easy way to ensure optimal energy performance. The EPA also provides guidelines on how to find and eliminate energy waste in your building, [Learn more](#).
 - Return: Payback ranges from 0-1 year. Typical recommended measures include lighting strategies, building operation schedule, plug load operation, and more.
 - Cost: Cost is minimal, mainly a time investment.

- Upgrade other systems.** If you're looking to do even more, below are additional improvements and estimated payback ranges:

3 – 15 Year Payback	15 + Year Payback
<ul style="list-style-type: none"><input type="checkbox"/> Controls upgrades<ul style="list-style-type: none">○ Variable Frequency Drives on motors○ Upgrade Pneumatic to Electronic (DDC) controls<input type="checkbox"/> HVAC System Upgrades<ul style="list-style-type: none">○ High Efficiency Boiler, Chiller/AC, Air Handling Unit replacement○ High-Efficiency Motors and drives○ Optimized Motor Sizing○ Heat Pumps	<ul style="list-style-type: none"><input type="checkbox"/> Windows<input type="checkbox"/> Insulation<input type="checkbox"/> Ground Source Heat Pumps (Geothermal)<input type="checkbox"/> Cool Roofs / Vegetated Roofs

- Get an energy audit.** An energy audit will give you a detailed personalized report on energy conservation opportunities, cost, savings, payback period, and available Xcel Energy rebates.
 - ASHRAE Level 1 Audit – Start here if you're looking for personalized first steps on how to improve your building's energy efficiency. Less precise than a level 2 audit.
 - Cost: Xcel Energy offers [onsite energy audits](#). Participants are responsible for paying a small fee per audit based on building size. **If your building is under 50,000 square feet, Xcel is currently offering free level 1 Audits.** To get started, call the Xcel Energy Business Solutions Center at 855-839-8862. Click [here](#) for a sample report.
 - Apartments and Condos: Xcel's Multifamily Building Efficiency program includes an energy assessment and free direct installation of energy-saving products. To get started, download the [Participation Form](#) or call **855.451.4467**.
 - ASHRAE Level 2 Audit – detailed, precise analysis of your building. If you plan on making significant improvements, this is for you!
 - Cost: ~\$0.20 per square foot, less for larger buildings. Choose your own provider.

- Consider financing options.**
 - PACE is a voluntary program that provides financing, up to a 20 year term, that is repaid through a special assessment on the property. The lien automatically transfers to the new owner when the property is sold (like a sewer tax). PACE financing requires no down payment, provides immediate positive cash flow from energy cost savings, and increases building asset value. Major capital improvements like HVAC upgrades and/or window replacement can be financed. [copace.com](#)

FREQUENTLY ASKED QUESTIONS

Does ENERGY STAR score account for more variables than just my energy consumption per square foot?

Yes, the ENERGY STAR score assesses how your building is performing holistically: its assets, its operations, and occupant behavior. Are you open 24 hours? Do you have a high density of workers? How many bedrooms and laundry hook-ups are there in an apartment? The ENERGY STAR score accounts for how your building works in the real world. All calculations are based on source energy and include the impact of weather variations, as well as changes in key property use details. [Learn more](#).

How is the comparison to similarly performing buildings in Denver calculated?

We are comparing your building's EUI to the average EUI of the top quartile of buildings with your building type in Denver. We reference ENERGY STAR scores when determining the top quartile because the score normalizes for significant factors such as density of occupants, operating hours etc.

How have you calculated potential savings?

Estimated energy savings are based on you lowering your EUI to that of the average building in the top quartile of your building type in Denver.

- For buildings performing above the average of the top quartile, 5% of potential savings has been assumed.
- For buildings performing below the average of the top quartile by more than 25%, we gave an estimate of what would be saved by reducing energy use 25%.

We estimate your cost savings assuming the following values: \$0.0988/kWh for a blended rate for electricity,

\$0.677/Therm for natural gas, \$18.550/Mlbs for district steam and \$0.225/Ton-hr for district chilled water.

I think my energy use is not accurate. Where did you get this information?

This score card is based off self-reported data from your building's energy benchmarking report. Please call our help center if you believe your data is inaccurate. They will help you figure out how to ensure your report is accurate next year.

How will Denver benefit from this ordinance?

Improving energy efficiency in Denver's buildings promotes a resilient economy and supports a sustainable way of life. Investing an estimated \$340 million in energy efficiency could result in 4,000 local jobs and \$1.3 billion in savings over 10 years. Considering the energy used in large commercial and multifamily buildings results in 51 percent of Denver's greenhouse gas emissions. Improving energy efficiency in our buildings is key to achieving Denver's 2020 Sustainability and Climate Action Plan goals of reducing greenhouse gas emissions 80 percent below 1990 levels by 2050.

Have similar ordinances been successful?

Yes, other cities with benchmarking and transparency requirements have seen 2-3% energy savings each year by covered buildings. [Learn more.](#)

For more information, visit the Resource Center at www.denvergov.org/EnergizeDenver Or, for advice on how to get started, call our Benchmarking Help Center 8am-5pm: 1-844-536-4528 or EnergizeDenver@denvergov.org