



business
new construction



Add energy efficiency to your new construction plans

Business New Construction (BNC) is a comprehensive approach to energy efficiency and savings for your planned building. BNC offers:

- energy expertise to encourage energy efficiency in building design and construction practices
- design assistance supporting an integrated design process that provides various services depending on customer need

These can include energy modeling, funding to offset the cost of design time associated with energy analysis, financial incentives to improve the cost effectiveness of energy-efficiency measures, and field verification to ensure strategies are implemented.

As part of Business New Construction, we offer unique programs designed to fit the specific needs of builders, contractors and architects: **Energy Design Assistance and Energy Efficient Buildings.**

business new construction can give you long-term energy and cost savings

The up-front investment you make will pay dividends over the long-term, increasing the value of your investment.

→ **You can:**

- Shorten payback terms and save up-front capital because the rebate you may qualify for will offset the cost of more efficient materials and equipment
- Achieve significant long-term energy savings, meaning dollars that go straight to your bottom line every month
- Reduce maintenance and premature equipment replacement costs because more efficient equipment may have a longer productive life

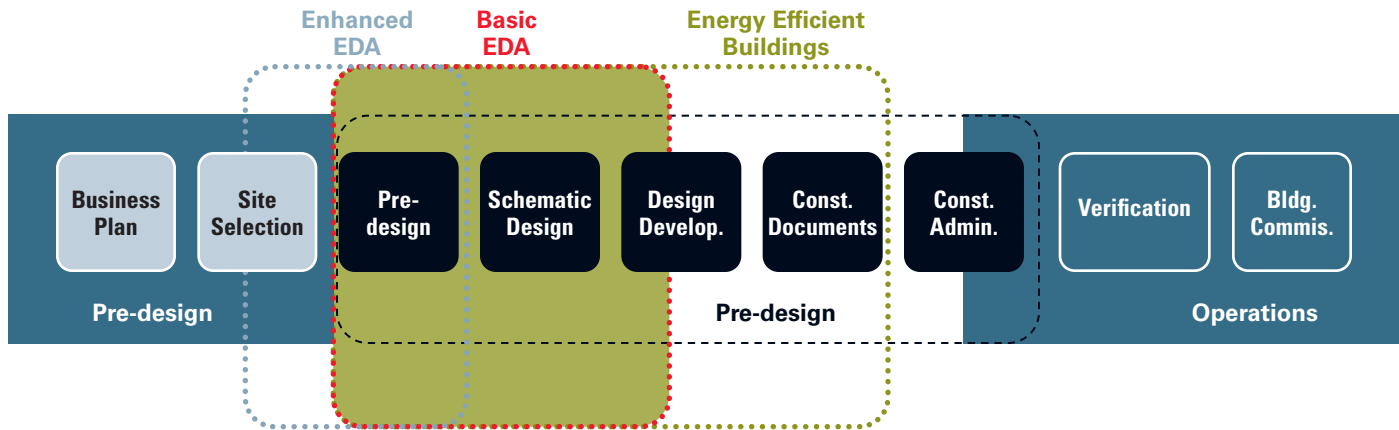
Save time implementing recommendations because our consulting is structured to fit into your existing process flow without schedule delays.



Program Timing

The best time to consider energy-efficient options for materials and equipment is before you break ground. Therefore, to qualify for our free services, you should contact Xcel Energy as early as possible in the design process. This ensures your building design and equipment works well together and surpasses minimum energy saving requirements.

The time to sign up for Energy Design Assistance (EDA) or Energy Efficient Buildings (EEB) Programs are shown in the diagram below.



energy design assistance

This comprehensive approach to energy savings includes personalized computer energy modeling for your planned building, which predicts energy use, suggests energy-saving strategies and projects energy-cost savings.

Our project site verifications help ensure that selected strategies are installed and working to save on energy bills. Recommended strategies also qualify for our cash incentives, which decrease out-of-pocket costs and improve return on investment.

Potential Efficiency Strategies

Architectural: Window size, glazing, daylighting

Electrical: Efficient lighting, controls

HVAC: Mechanical equipment, cooling and heating efficiencies, indoor air quality, variable air volume

“Basic” Energy Design Assistance

The Basic track is ideal for projects with energy savings goals in mind and enough time to integrate new ideas and strategies into their design as they merit economic benefit.

- **Minimum Project Size:** 20,000 square feet
- **Timing:** Schematic or Early Design Development
- **Energy Savings Required:** Minimum 15% electric energy demand savings reduction; 15% minimum gas savings reduction
- **Registration Requirements:** N.A.
- **Rebates:** \$400 per kW, \$0.04 per kWh and \$4 per Dth
- **Basic Services:** Energy modeling results for efficiency strategies as selected by owner and design team, review of construction documents for inclusion of strategies, site verification and monitoring of select installed strategies

“Enhanced” Energy Design Assistance

The Enhanced track is ideal for projects with extensive energy savings goals looking to meet green certification whether that be ENERGY STAR®, Leadership in Energy and Environmental Design (LEED®), GreenGlobes, or other certifications. Projects within this track would begin review of their energy goals in preliminary designs and be willing to look outside traditional approaches to energy savings.

- **Minimum Project Size:** 20,000 square feet
- **Timing:** Pre-design or Early Schematic Design
- **Energy Savings Required:** Minimum 30% electric energy demand savings reduction; 30% minimum gas savings reduction
- **Registration Requirements:** Must be registered with a 3rd party verified green building certification such as U.S. Green Building Council
- **Rebates:** \$400 per kW, \$0.04 per kWh and \$4 per Dth
- **Enhanced Services:** Basic services, plus early energy modeling and support of green building certifications, such as LEED certification (Energy and Atmosphere Credit 1) and the Collaborative for High Performance Schools.

Enhanced Services can also include the following:

Daylighting Analysis: Create and compare alternate window size and placement for daylighting harvesting and sun shading options

HVAC Analysis: Create and compare alternative HVAC system types and zoning options to maximize energy efficiency

Massing: Create and compare alternative massing and orientation to maximize daylighting and energy-efficiency options

Energy Design Assistance Success Stories

EVIE GARRET DENNIS CAMPUS
Denver, CO

ENERGY SAVINGS

| | |
|---|----------------------|
| Building Area | 184,765 sq ft |
| Estimated Annual Energy Cost Savings | \$158,000 |
| Annual Energy Savings | 1,265,657 kWh |
| % Energy Peak Savings | 25% |
| Xcel Energy Incentive | \$51,363 |

Energy efficiency and sustainable features designed into the building:

- White Roof
- Daylighting
- Lighting Occupancy Sensors
- CO2 Control Sensors
- Ground Source Heat Pumps
- Premium Efficiency Motors
- Evaporative Cooling

Project Team
DLR Group, ME Group, Oakwood Homes, The Weidt Group®

EDA Enhanced can prepare you for higher sustainable goals

By participating in our Enhanced option, you can be assured you'll focus on energy-efficiency in your building prior to breaking ground. This option offers guidance to help you choose the energy-efficiency measures that work best for your building type and which strategies have the most resource-savings potential.

The Enhanced track requires:

- Design teams and building owners must be in the pre-design or early conceptual design stage
- Projects must be able to reach a minimum of 30 percent energy demand savings over the EDA Baseline (ASHRAE 90.1-2007 Energy Standard).

And achieve green certification goals

Customers interested in the green building certification process, such as LEED, can participate in our Enhanced option.

For LEED certification we offer the following:

- Additional baseline modeling
- Partial documentation to Green Building Certification Institute (GBCI) for Energy and Atmosphere Prerequisite 2. Xcel Energy will complete the portion of the documentation related to energy performance, however your design team of record will be responsible for the mandatory provisions in the final submission.
- Documentation to GBCI for Energy and Atmosphere Credit 1 for either the Design or Construction submittal AND an opportunity for up to two series of question responses on the submittal to the GBCI.

Energy Design Assistance Success Stories

TOTAL COMMUNITY OPTIONS CORPORATE HEADQUARTERS
Denver, CO

ENERGY SAVINGS

| | |
|---|---------------------|
| Building Area | 45,000 sq ft |
| Estimated Annual Energy Cost Savings | \$25,130 |
| Annual Energy Savings | 231,461 kWh |
| % Energy Peak Savings | 42% |
| Xcel Energy Incentive | \$21,874 |

Energy efficiency and sustainable features designed into the building:

- High Performance Glazing
- Continuous Exterior Wall Insulation
- Extensive Daylighting System
- LED Task Lighting
- Variable Refrigerant Flow HVAC System
- Occupancy and CO2 Control Sensors

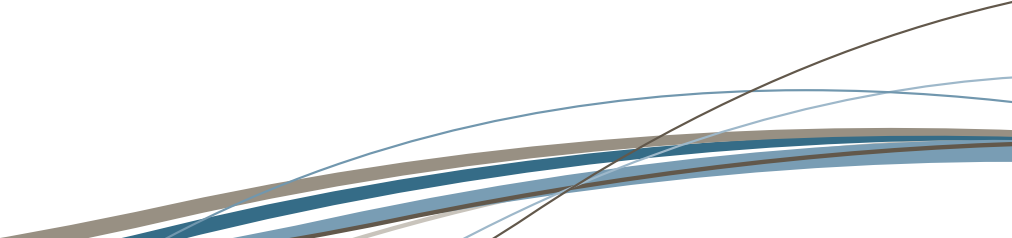
Project Team

OZ Architecture, ABS Consultants, Inc., Saunders Construction, Total Longterm Care; Heitler Development/Hartman Ely Investments, Ambient Energy, Group14 Engineering, Architectural Energy Corporation

energy

efficient buildings

The Energy Efficient Buildings program is a prescriptive approach to obtaining rebates for new construction, major renovations and additions. By reviewing your energy savings opportunities early in design, projects can begin counting on energy savings throughout the life of the building. The Energy Efficient Building program will offer you the opportunity to review energy-efficiency measures within the building and give you an idea of what types of rebates Xcel Energy can offer to help offset costs of additional energy efficiency recommendations.

- **Minimum Project Size:** Any size building may apply to the Energy Efficient Buildings program, but is intended for buildings with square footage lower than 50,000 square feet
 - **Timing:** Projects can take advantage of the Energy Efficient Buildings program any time prior to equipment bidding stage, however, are encouraged to review the process and potential rebates prior to the completion of construction documents
 - **Rebates:** Amounts vary depending on equipment purchased and installed
 - **Energy Efficiency Buildings Services:** On site verification to review installed strategies
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Energy Efficient Buildings Success Story

Denver Traffic Operations, which is a Better Denver Bond project, was accepted into this prescriptive program because they were completing a major renovation to their 48,800 square foot office building. After implementing multiple energy saving strategies, the customer received a rebate check for \$23,500. The estimated annual energy cost savings for this project is \$1,900 with a payback period of approximately 6.8 years.

Energy Saving Strategies

- High Efficiency Lighting
- Premium Efficiency Rooftop Units with Demand Control Ventilation
- Premium Efficient Motors
- Variable Speed Drives
- Window Glazing
- High R-value Insulation
- High Efficiency and Condensing Boilers

Energy Efficient Buildings

Process Time Line

STEP 1

Download application/calculator estimator tool* from xcelenergy.com/businessnewconstruction or request it from your account manager or energy efficiency specialist.

*NOTE: This EEB calculator acts only as a tool to calculate potential rebates. Some rebates and measures within this tool have been updated and are not reflected in this calculator tool.

STEP 2

Fill out application and sign agreement, then send it to your account manager or energyefficiency@xcelenergy.com. ~~Also start the process of filling out the calculator as it will be requested in Step 3. If you have questions with any of these steps call 1-800-481-4700 to have our specialists help you.~~

STEP 3

Xcel Energy will do an initial review of your application and send a preapproval letter that includes the next steps, time frame and additional documents required. The requested documentation includes: completed calculator, construction documents, submittals and/or equipment specifications.

STEP 4

Xcel Energy will work with you and your contractors to finalize the calculator and determine rebate potential.

STEP 5

Xcel Energy will send a letter that shows a preliminary incentive amount. ~~It will also include an updated calculator and additional energy efficiency recommendations.~~

STEP 6

Approximately ~~2~~³ months prior to project completion, you need to contact Xcel Energy to verify construction completion.

STEP 7

Xcel Energy will complete an onsite verification and update rebate amount based on equipment installation.

STEP 8

Xcel Energy will complete rebate and send in ~~4-6~~⁴⁻⁵ weeks.

Start your project with our calculator tool.

The online calculator tool is at xcelenergy.com/BusinessNewConstruction, under the Energy Efficient Buildings link. Here you will see prompts and directions for filling it out. When you send it to your account manager or your energy efficiency specialist at 1-800-481-4700, you will be on your way to project approval and implementation.



Visit

[xcelenergy.com/BusinessNewConstruction](https://www.xcelenergy.com/BusinessNewConstruction) for more information

Get Started Today

Improve the energy-efficiency of your new construction, addition or major renovation today by visiting xcelenergy.com/BusinessNewConstruction or emailing BusinessNewConstruction@xcelenergy.com.



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