

Fort Collins Conserves

with Efficiency Programs and Community Leadership.

High-Performance Buildings

Benefits of Integrated Design

The Integrated Design Assistance Program (IDAP) supports project owners, developers, design professionals and builders to create high-performance buildings with financial incentives and technical support.

Two Approaches

The IDAP offers the choice of a Whole Building Approach or Prescriptive Approach, designed to accommodate varied projects.

Whole Building Approach

This approach achieves optimal energy savings and building performance, requiring more effort in the design stage. Project must be in conceptual or schematic design. Incentives available:

- **Design Incentive:** used to help offset costs for additional design services, such as energy or daylighting consultants. Recipients commit to a design goal of reducing electricity use by at least 10 percent from the ASHRAE 90.1—2007 Energy Standard.
- **Performance Incentive:** based on the entire building's electricity

This type of design relies on many different people pooling their knowledge to provide a solution that would not have been possible with only the input of a few.

savings using the ASHRAE 90.1 – 2007 Energy Standard. Buildings must have an electric use savings of at least 10 percent below the baseline reference.

Prescriptive Approach

This approach is for projects beyond schematic design or for which design schedule and resources pre-exclude using the Whole Building Approach.

Incentives are provided for lighting, HVAC, building envelope,

electric motors and custom measures. Amounts are based on improvements from efficiency requirements in the ASHRAE 90.1—2007 Energy

See comparison table on other side and visit fcgov.com/idap for more detailed information.



The City of Fort Collins' new Police Services Facility features daylighting, exterior spray foam insulation and evaporative condensing rooftop units.

Standard. Technical Assistance can be provided by Fort Collins Utilities and/or consultants through attendance at energy-related design meetings and consultations.

Join These Fort Collins Leaders

These Fort Collins organizations have already used integrated design with assistance from Fort Collins Utilities:

- Value Plastics
- Poudre School District
- City of Fort Collins
- United Way
- New Belgium Brewery
- Colorado State University
- BHA Design
- Penny Flats
- Sustainable Strategies, LLC
- Rocky Mountain Innovation Initiation
- Brendle Group
- Odell Brewing
- Bellisimo
- Poudre Valley Health Services

What is integrated design?

Integrated design is a process and an outcome. In an integrated design process, owners, architects, engineers, site designers, maintenance personnel, energy consultants and others work together early in the process to create a design that integrates building elements to achieve energy savings, occupant comfort and overall performance rarely found in conventional buildings.

Benefits of Integrated Design at Fossil Ridge High School

- \$100,000/year energy cost savings
- Improved student performance
- Conventional construction cost of \$122 per square foot
- Lower maintenance costs

Building information

- Opened August 2004
- 296,375 square feet
- 1,800 student capacity
- Located in Poudre School District



Photo courtesy of David Patterson, RB+B Architects

Integrated Design Assistance Program (IDAP) Approaches

	Whole Building Approach	Prescriptive Approach
Recommended Approach	<ul style="list-style-type: none"> • For projects in early design using an integrated approach • Achieves highest building performance • Typically requires more time/effort in design stage 	<ul style="list-style-type: none"> • Projects beyond schematic design, on a fast-track or when resources prevent using Whole Building Approach • Targets specific equipment and systems
Incentive Types or Equipment/Systems Funded	<p>Design Incentive: helps offset costs for additional design professionals (e.g. daylighting or energy consultant). Available in early design.</p> <p>Performance Incentive: based on electricity savings of entire building using ASHRAE 90.1 - 2007, Appendix G criteria. Paid at end of project.</p>	<p>Simple incentive structures for:</p> <ul style="list-style-type: none"> • Lighting • HVAC • Building envelope • Electric motors • Custom measures
Incentive Amount	<p>Design: \$5,000 + \$0.10/square feet (SF) up to 300,000 SF; \$50,000 lifetime cap.</p> <p>Performance: \$500 per summer peak kW or \$0.10/annual kWh for electricity savings of 10-50% below baseline reference; \$100,000/year cap.</p>	<p>Based on improvement from efficiency requirements in the ASHRAE 90.1 - 2007 Energy Standard (specific incentive amounts for various prescriptive measures at fcgov.com/idap); capped at \$100,000/year.</p>
Building Requirements	<ul style="list-style-type: none"> • Pre-design or schematic design • Minimum of 5,000 SF • Commissioning (independent verification that building performs as intended) included • Set goal to exceed ASHRAE 90.1 - 2007 Energy Standard by 10% • Located in Fort Collins Utilities electric service area • New construction or major renovation • Commercial or high-rise residential building, per ASHRAE 90.1 - 2007, Section 2 	<ul style="list-style-type: none"> • Application for IDAP incentives must be submitted before equipment is installed. • Located in Fort Collins Utilities electric service area • New construction or major renovation • Commercial or high-rise residential building, per ASHRAE 90.1 - 2007, Section 2
How to Apply	Go to fcgov.com/idap or contact Utilities Energy Services.	



Fort Collins Conserves. It's Our Style.