

ENERGY BADGE

Business Goal

Reduce building energy use by 2 percent annually to achieve 30 percent reduction from 2005 baseline by 2030.

Overview

The purpose of the Energy badge is to encourage practical, best management practices and actions to reduce energy consumption appropriate for individual businesses and industries. Commercial buildings and industrial processes consume 38 percent of the total energy used in Fort Collins. Achieving this business goal will be critical to meet our Climate Action Plan targets.

Questions?

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ACT

Points	Complete?	Strategy	Resources
1	<input type="checkbox"/>	All non-essential plug loads are turned off at night. Non-essential plug loads could include computers, printers, copiers, fax machines, etc. (Annually)	
1	<input type="checkbox"/>	Exterior doors are weather sealed. Install or repair as needed. (Annually)	Resource: • http://energy.gov/energysaver/weatherstripping
1	<input type="checkbox"/>	Exterior lighting controls have correct settings. Install or adjust photosensors, motion controls, etc. (Annually)	Resource: • http://energy.gov/energysaver/lighting-controls
2-10	<input type="checkbox"/>	Increase building's appliance efficiency Replace clothes washers, ovens, dishwashers, etc. with energy efficient models. You may be eligible for a rebate from your electricity provider. Fort Collins Utilities offers rebates through the Efficiency Works program (Fort Collins Utilities electric customers only). (Strategy must have been completed within the last 12 months to qualify) • 0 – 20,000kWh = 2 points • 20,001kWh – 30,000kWh = 3 points • 30,001kWh – 40,000kWh = 4 points • 40,001kWh – 50,000kWh = 5 points • 50,001kWh – 60,000kWh = 6 points • 60,001kWh – 70,000kWh = 7 points • 70,001kWh – 80,000kWh = 8 points • 80,001kWh – 90,000kWh = 9 points • 90,000kWh+ = 10 points	Resource: • http://www.fcgov.com/utilities/business/conserves/rebates-incentives/water-efficiency/clothes-washer-dishwasher-rebates
2-10	<input type="checkbox"/>	Increase building's envelope efficiency Replace roof insulation, wall insulation, etc. You may be eligible for a rebate from your electricity provider. Fort Collins Utilities offers rebates through the Efficiency Works program (Fort Collins Utilities electric customers only). (Strategy must have been completed within the last 12 months to qualify) • 0 – 20,000kWh = 2 points • 20,001kWh – 30,000kWh = 3 points • 30,001kWh – 40,000kWh = 4 points • 40,001kWh – 50,000kWh = 5 points • 50,001kWh – 60,000kWh = 6 points • 60,001kWh – 70,000kWh = 7 points • 70,001kWh – 80,000kWh = 8 points • 80,001kWh – 90,000kWh = 9 points • 90,000kWh+ = 10 points	Resource: • http://www.fcgov.com/utilities/business/conserves/rebates-incentives/electric-efficiency
2-10	<input type="checkbox"/>	Increase building's IT efficiency Click here for more information. You may be eligible for a rebate from your electricity provider. Fort Collins Utilities offers rebates through the Efficiency Works program (Fort Collins Utilities electric customers only). (Strategy must have been completed within the last 12 months to qualify) • 0 – 20,000kWh = 2 points • 20,001kWh – 30,000kWh = 3 points • 30,001kWh – 40,000kWh = 4 points • 40,001kWh – 50,000kWh = 5 points • 50,001kWh – 60,000kWh = 6 points • 60,001kWh – 70,000kWh = 7 points • 70,001kWh – 80,000kWh = 8 points • 80,001kWh – 90,000kWh = 9 points • 90,000kWh+ = 10 points	Resource: • https://www.energystar.gov/index.cfm?c=power_mgt.pr_power_mgt_efficient_equipment • http://www.fcgov.com/utilities/business/conserves/rebates-incentives/electric-efficiency

2-10	<input type="checkbox"/>	Increase building's lighting efficiency Click here for more information. You may be eligible for a rebate from your electricity provider. Fort Collins Utilities offers rebates through the Efficiency Works program. Fort Collins Utilities electric customers only. (Strategy must have been completed within the last 12 months to qualify) • 0 – 20,000kWh = 2 points • 20,001kWh – 30,000kWh = 3 points • 30,001kWh – 40,000kWh = 4 points • 40,001kWh – 50,000kWh = 5 points • 50,001kWh – 60,000kWh = 6 points • 60,001kWh – 70,000kWh = 7 points • 70,001kWh – 80,000kWh = 8 points • 80,001kWh – 90,000kWh = 9 points • 90,000kWh+ = 10 points	Resource: • http://energy.gov/public-services/homes/saving-electricity/lighting • http://www.fcgov.com/utilities/business/conserve/rebates-incentives/electric-efficiency/lighting-efficiency
2-10	<input type="checkbox"/>	Increase building's mechanical efficiency Examples include heating and cooling systems, refrigeration, etc. Click here for more information. Note, aim for zero use of chlorofluorocarbon (CFC). You may be eligible for a rebate from your electricity provider. Fort Collins Utilities offers rebates through the Efficiency Works program (Fort Collins Utilities electric customers only). (Strategy must have been completed within the last 12 months to qualify) • 0 – 20,000kWh = 2 points • 20,001kWh – 30,000kWh = 3 points • 30,001kWh – 40,000kWh = 4 points • 40,001kWh – 50,000kWh = 5 points • 50,001kWh – 60,000kWh = 6 points • 60,001kWh – 70,000kWh = 7 points • 70,001kWh – 80,000kWh = 8 points • 80,001kWh – 90,000kWh = 9 points • 90,000kWh+ = 10 points	Resource: • https://energydesignresources.com/media/11119135/db-04-mechenereffc.pdf • http://www.fcgov.com/utilities/business/conserve/rebates-incentives/electric-efficiency/
1	<input type="checkbox"/>	Indoor Lighting controls have correct settings. Install or adjust occupancy sensors, dimmers, etc. as needed. (Annually)	Resource: • http://energy.gov/energysaver/lighting-controls
1	<input type="checkbox"/>	Maintain building's cooling system to ENERGY STAR® standards. Go through the ENERGY STAR® checklist with facility staff or contractor. (Annually)	Resource: • https://www.energystar.gov/index.cfm?c=heat_cool.pr_maintenance
1	<input type="checkbox"/>	Maintain building's heating system to ENERGY STAR® standards. Go through the ENERGY STAR® checklist with facility staff or contractor. (Annually)	Resource: • https://www.energystar.gov/index.cfm?c=heat_cool.pr_maintenance
1	<input type="checkbox"/>	Maintain mechanical refrigeration and operate within the appropriate settings. Check gaskets, auto door closer, economizers, etc. (Annually)	Resource: • http://www.foodsafetymagazine.com/magazine-archive1/februarymarch-2005/the-cold-hard-facts-about-refrigeration-equipment/
2	<input type="checkbox"/>	Maintain on-site solar panels. Keep panels clean for optimal power generation. (Annually)	Resource: • http://m.wikihow.com/Maintain-a-Solar-Panel
3	<input type="checkbox"/>	Participate in a renewable energy program. Fort Collins Utilities electric customers, visit (http://www.fcgov.com/utilities/residential/renewables/green-energy). Xcel Energy customers, visit (http://www.xcelenergy.com/Energy_Solutions/Business_Solutions/Renewable_Solutions). (Annually)	
3	<input type="checkbox"/>	Participate in Peak Partners Load Management Program. Available to Fort Collins Utilities E300 and E400 customers only. (Annually)	Resource: • http://www.fcgov.com/utilities/business/improve-efficiency/load-management
1	<input type="checkbox"/>	Programmable thermostats are operating within appropriate settings. Install or adjust as needed. Target settings: Occupied 68-72°F ±2; Unoccupied winter 66-70°F; Unoccupied summer 78-80°F. (Annually)	
3	<input type="checkbox"/>	Retro-commission your building. Fort Collins Utilities offers Building Tune-Ups through the Efficiency Works program for buildings greater than two years old. (This credit can be claimed once every three years)	Resource: • https://www.energystar.gov/buildings/tools-and-resources/energy-star-building-upgrade-manual-chapter-5-retrocommissioning • http://www.fcgov.com/utilities/business/improve-efficiency/building-tuneup
3	<input type="checkbox"/>	Save energy by participating in a commercial rebate program through your provider. See Fort Collins Utilities' Efficiency Works rebate program, Xcel Business rebate program or Poudre Valley REA rebate program. (Strategy must have been completed within the last 12 months to qualify)	Resource: • http://www.fcgov.com/utilities/business/improve-efficiency/rebates-incentives/electric-efficiency • http://www.xcelenergy.com/Energy_Solutions/Business_Solutions/Rebates_&_Energy_Savings • http://www.pvrea.com/rebates

3	<input type="checkbox"/>	Upgrade your facility with a Business Efficiency Loan (Fort Collins Utilities customers only). Fort Collins Utilities offers loans through the Efficiency Works program to Fort Collins Utilities water and/or small commercial (E200, E250 rate classes) building owners. (Strategy must have been completed within the last	Resource: • http://www.fcgov.com/utilities/business/improve-efficiency/business-efficiency-loan
1	<input type="checkbox"/>	Use LED bulbs in emergency exit signs. Install or replace as needed. (Annually)	Resource: • http://www.energystar.gov/ia/business/small_business/led_exit_signs_techsheet.pdf
1	<input type="checkbox"/>	Use power management settings on computers. Activate or ensure computers use ENERGY STAR® recommended settings. (Annually)	Resource: • https://www.energystar.gov/index.cfm?c=power_mgt.pr_power_mgt_users
2-10	<input type="checkbox"/>	Use renewable energy via on-site or off-site generation (solar garden) Fort Collins Utilities electric customers click here for more information. Xcel Energy customers click here for more information. (Annually) • 0 – 10 kW/yr produced = 2 points • 11 kW/yr – 20 kW/yr produced = 3 points • 21 kW/yr – 30 kW/yr produced = 4 points • 31 kW/yr – 40 kW/yr produced = 5 points • 41 kW/yr – 50 kW/yr produced = 6 points • 51 kW/yr – 60 kW/yr produced = 7 points • 71 kW/yr – 80 kW/yr produced = 8 points • 81 kW/yr – 90 kW/yr produced = 9 points • 91+ kW/yr produced = 10 points	Resource: • http://www.fcgov.com/utilities/business/go-renewable • http://www.xcelenergy.com/Energy_Solutions/Residential_Solutions/Renewable_Energy_Solutions

EDUCATE AND PLAN

Points	Complete?	Strategy	Resources
1	<input type="checkbox"/>	Read industry-specific best management practices as published by ENERGY STAR® and share what you learned with your manager or facility operator. Industries include restaurants, grocery, breweries, manufacturing, office, etc. (Annually)	Resource: • http://www.energystar.gov/buildings/tools-and-resources
3	<input type="checkbox"/>	Educate and engage your team through the Energy Conservation challenge. NOTE: Credit can only be claimed by using the attached challenge toolkit. For other challenges, please use the Innovate category to claim points. Challenging your employees to save energy can be a FUN way to engage and educate while bringing operating costs down. Check out the many ideas to challenge your team with our Energy Conservation Challenge! To extend your challenge and earn additional points, review the Energy Extension toolkit strategies that features nine monthly "themes" to keep the conservation momentum going. You must first complete at least one core conservation challenge before using the extension toolkit strategies. Extension toolkits can be mixed and matched among badges as desired after core challenge is completed. Click here for the Energy Conservation Challenge Toolkit. For questions, contact Alyssa Stephens, astephens@fcgov.com . (Annually)	Resource: • http://www.fcgov.com/climatewise/pdf/energy_conservation_challenge.pdf
3	<input type="checkbox"/>	Have a free facility assessment. NOTE: This is a highly recommended strategy for new Partners or Partners that have not had a facility assessment within the last three years. Click here for more information. Fort Collins Utilities customers only, all others may use a private provider to claim points. (This credit can be claimed once every three years in both the energy and water badge)	Resource: • http://www.fcgov.com/utilities/business/conservation/education-tools/facility-assessment/
3	<input type="checkbox"/>	Create a Building Operating Plan. Preferably a Building Operating Plan will be created before the facility assessment is conducted. Click here for more information. Click here for a template. (Annually)	Resource: • http://www.mscagreenstar.org/building-manager-resources/why-develop-building-operations-plan • http://www.documents.dgs.ca.gov/green/BuildingOpPlanSAMPLE.doc
3	<input type="checkbox"/>	Energy Challenge - Extension toolkit, months 2-4. This strategy is available to Partners that have completed at least one "core" challenge in Energy, Water, Waste, or Transportation. Receive three additional points for each three month challenge extension completed. To receive a copy of the extension toolkit, contact Alyssa Stephens, astephens@fcgov.com . (Annually)	
3	<input type="checkbox"/>	Energy Challenge - Extension toolkit, months 5-7. This strategy is available to Partners that have completed at least one "core" challenge in Energy, Water, Waste, or Transportation. Receive three additional points for each three month challenge extension completed. To receive a copy of the extension toolkit, contact Alyssa Stephens, astephens@fcgov.com . (Annually)	

3	<input type="checkbox"/>	Energy Challenge - Extension toolkit, months 8-10. This strategy is available to Partners that have completed at least one "core" challenge in Energy, Water, Waste, or Transportation. Receive three additional points for each three month challenge extension completed. To receive a copy of the extension toolkit, contact Alyssa Stephens, astephens@fcgov.com . (Annually)	
3	<input type="checkbox"/>	Verify and update existing Building Operation Plan. Claim points if you have an existing Building Operation Plan and review and update it yearly.	

QUANTIFY AND REDUCE

Points	Complete?	Strategy	Resources
1	<input type="checkbox"/>	Achieve a 2 percent energy reduction from the previous year as tracked by EPA Portfolio Manager® or other tracking software. Click here for more information and a quick start guide. (Annually)	Resource: • http://www.energystar.gov/buildings/facility-owners-and-managers/existing-buildings/use-portfolio-manager • http://www.energystar.gov/buildings/tools-and-resources/portfolio-manager-quick-start-guide
2	<input type="checkbox"/>	Achieve a 3 percent energy reduction from the previous year as tracked by EPA Portfolio Manager® or other tracking software. Click here for more information and a quick start guide. (Annually)	Resource: • http://www.energystar.gov/buildings/facility-owners-and-managers/existing-buildings/use-portfolio-manager • http://www.energystar.gov/buildings/tools-and-resources/portfolio-manager-quick-start-guide
3	<input type="checkbox"/>	Achieve a 5+ percent energy reduction from the previous year as tracked by EPA Portfolio Manager® or other tracking software. Click here for more information and a quick start guide. (Annually)	Resource: • http://www.energystar.gov/buildings/facility-owners-and-managers/existing-buildings/use-portfolio-manager • http://www.energystar.gov/buildings/tools-and-resources/portfolio-manager-quick-start-guide
3	<input type="checkbox"/>	Achieve an ENERGY STAR® rating (75 or greater) on your building. Upload your statement of energy performance. Click here for more information on the EPA Portfolio Manager® and the ENERGY STAR® rating. (One-time)	Resource: • http://www.energystar.gov/buildings/facility-owners-and-managers/existing-buildings/use-portfolio-manager • http://www.energystar.gov/buildings/facility-owners-and-managers/existing-buildings/use-portfolio-manager/understand-metrics/how-1-100
3	<input type="checkbox"/>	Install or have in place a Building Automation System that controls all major building systems, including cooling, heating, lighting and ventilation. Click here for more information. (Annually)	Resource: • https://en.wikipedia.org/wiki/Building_automation
3	<input type="checkbox"/>	Use EPA Portfolio Manager (or equivalent) to track your electric, and/or natural gas usage. Click here for more information and a quick start guide. (Annually)	Resource: • http://www.energystar.gov/buildings/facility-owners-and-managers/existing-buildings/use-portfolio-manager • http://www.energystar.gov/buildings/tools-and-resources/portfolio-manager-quick-start-guide

INNOVATE

Points	Complete?	Strategy	Resources
3	<input type="checkbox"/>	Disclose the energy performance of your building. Work with Fort Collins Utilities, contact Michael Authier, mauthier@fcgov.com or 970-221-6768. Click here for more information and a report. (Annually)	Resource: • http://www.imt.org/policy/building-energy-performance-policy • https://www.energystar.gov/buildings/tools-and-resources/benchmarking-and-disclosure-lessons-leading-cities
1-3	<input type="checkbox"/>	What other creative projects has your business done that aren't listed? Tell us about best management practices, special projects or industry specific actions that you've completed within the calendar year. Review the innovation point assignment guidance to determine how many points to claim for your project. (Annually)	Resource: • http://www.fcgov.com/climatewise/reporting_guide.php#innovation