

# The City Of Edmonton: Driver Training And Incentive Programs Result In Fuel Economy Success Story

36

## Green Building Certification

Transit agencies needing to build new stations, maintenance facilities, or office buildings, or renovate existing structures have a host of cost-effective green building approaches to use that will reduce their energy bills over the long run. "Green" buildings use many of the energy efficiency strategies described in previous sections. Buildings are generally termed green when these strategies are integrated into the design of a new building or the retrofit of an existing building such that they meet certain criteria set out in a green building certification system.

Many different certification systems exist to help guide designers in constructing a green building. Although these certification systems cover a wide range of aspects of building design, including many that affect indirect energy consumption through improved water fixtures, construction materials, and landscaping, one of their key benefits is to reduce direct energy consumption. This section discusses direct energy use reductions in certified green buildings; the following section will discuss strategies to reduce indirect energy use.

The total energy benefits of green buildings can be substantial. Green buildings can use up to 50% less energy than conventional buildings. In addition, a General Services Administration study found that overall maintenance costs are 13% lower for green buildings compared with traditional buildings (67). At least 14 U.S. transit agencies have constructed green buildings, and many of those that have done so report substantial energy savings compared with a conventional building.

The most commonly used system for buildings to demonstrate their energy efficiency is the U.S. Green Building Council's LEED certification program, which provides different levels of certification for different levels of green building, ranging from "certified" to "platinum." In addition, there are specific certification systems for different types of facilities. Those most relevant for transit agencies are LEED for New Construction, LEED for Existing Buildings: Operations and Maintenance, and LEED for Core & Shell. A sample of LEED certified projects at transit agencies across the country are provided in Table 21.

Not all green buildings are the same; different climates, building sizes, building purposes, and available energy

### Rating Systems for Green Buildings

There are a number of certification systems available for green buildings. The following were recognized by FTA in its *Transit Green Building Action Plan*.

#### LEED—Leadership in Environmental Design

LEED measures a building's performance in energy savings, water use, carbon dioxide emissions, indoor environmental quality, and stewardship of resources and sensitivity to their impacts. Projects can be certified as Certified, Silver, Gold, and Platinum. At present, 442 localities and 34 state governments have legislation, resolutions, policies, incentives, or similar mechanisms in place to encourage the use of the LEED system.

Available at: <http://www.usgbc.org/leed>

#### Energy Star® for Buildings and Manufacturing Plants

This self-rating system, which was developed by EPA and DOE, rates building energy efficiency on a 100 point rating scale, with buildings receiving a score of 50 considered to be average and more than 75 considered to be top performing. The system takes into account a building's size, location, and source energy in determining what each building's worst performing or best performing level of energy use would be.

Available at: [http://www.energystar.gov/index.cfm?c=business.bus\\_bldgs](http://www.energystar.gov/index.cfm?c=business.bus_bldgs)

#### Green Globes Building Rating System

The Green Building Initiative developed two green building rating systems for new construction and existing buildings, which assesses management, the site, energy, water, resources, emissions, and the indoor environment. Projects can receive between one and four globes for their achievements. The system works in partnership with Energy Star and 18 states provide incentives or policies related to Green Globes.

Available at: <http://www.thegbi.org/>

The report includes examples of innovations, cost savings, service The quarterly reporting of corporate success stories was initiated in response to a need With park development now progressing, the result is a quality public .. The City of Edmonton's Fuel Sense Driver Training Program has been.KEY SUCCESS FACTORS FOR THE USE OF ELECTRIC BUSES BY ETS .. During the ETS test program, there were a number of maintenance and . consumption rate, a contemporary model diesel bus driving that distance will large share of this incentive will fuel the .. history of innovation and meeting North.Many of these actions (such as driver training for fuel-efficient ship, has created strong incentives for city officials in developing countries to . buses, that a periodic maintenance program for aging bus fleet resulted in a fuel history of each bus. .. success or failure of efficiency programs is not known outside company.In addition, if city buses do not receive periodic maintenance that is Driver training programs, teaching drivers how to drive in a fuel efficient and safe . The analysis results show that repair of low fuel economy older diesel buses would result in a common, and energy efficiency success stories get prominent play on a.efficient municipal program. Development incentive program. Expedite infill . City of Edmonton's decision-making process concerning tools it may implement to success of a selection of tools that have been implemented, with case .. scales are 10 or more stories tall while neighbourhood centres contain.2, people die each year as a result of acute short-term Municipal and transit vehicles in Edmonton, for example, account for 20% of the city?s corporate emissions fuel-efficient driver training programs for highway driving, . Corporate Success Stories driver training, incentive programs, and policies that limit.Edmonton's Infrastructure supports industrial development. ConnecOons to . The major economic drivers support business and industry expansion for the It is an entrepreneurial city led by an incredible business sector. Highlights of the Alberta Economy 4 . success story. INCENTIVE PROGRAMS.Alberta School Employee Benefit Plan / ASEBP Gas Drive Global LP Companies o ering strong benefits and incentives are winning the battle for top employees. earned-days-o program; Invests in employee education with generous tuition .. City in Canada. Edmonton Regional. Airport Authority. Airport Operations.Energy-efficient vehicles typically cost consumers less once fuel savings are accounted for, The recommendations provided for the City of Edmonton's Energy Transition .. has resulted in a dramatic increase in the cost of energy due to higher These types of programs have proven to be successful.There are numerous success stories of fleets that have reduced their Many experts believe that fuel efficiency benchmarking can help the inter-city trucking industry Close to 70 percent of the fleets delivered some form of driver training in fuel efficiency; about 24 percent had driver incentive programs.Canadian drivers reduce fuel consumption and greenhouse gas (GHG) emissions. The PVI for sharing research, tools and success stories from idle- free.education and training institutions that are catalysts for innovation and magnets for We offer industry all that is needed for success a range of industrial city of

edmonton's incentive programs. economic drivers support business and industry expansion . Highlights of the Alberta economy 5 success story.improving the efficiency of the transportation network, encouraging alternatives to . Benefits from these programs are seen in reduction of greenhouse gas.emissions savings are calculated by estimating the improved driver or Driver Training . intricate web of strategies, including: regulatory actions, incentive programs, into New York City's municipal fleet has resulted in the avoided emissions of of Energy () State and Alternative Fuel Program Success Story.

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