

The City and County of Broomfield Sustainability Plan



An Update to the Environmental Stewardship Section of the 2005 Comprehensive Plan

***Draft: May 2010
Created by
the Members of the Broomfield Sustainability Task Force***

Acknowledgements

City Council

Patrick Quinn, Mayor
Bob Gaiser, Ward 1
Todd Schumacher, Ward 1
Lori Cox, Ward 2
Dennis McCloskey, Ward 2
Kevin Jacobs, Ward 3
Sam Taylor, Ward 3
Walt Spader, Ward 4
Martha Derda, Ward 4
Linda Reynolds, Ward 5
Greg Stokes, Ward 5
Linda Reynolds, Ward 5

Consultants

Facilitator:

Derek Okubo, National Civic League

Technical Assistance:

Dr. Anu Ramaswami, UC Denver
Meghan Bernard, UC Denver

Prepared By:

City and County of Broomfield

Sustainable Community Task Force

Pat Quinn, Mayor
Linda Reynolds
Kevin Jacobs
Patrick Tennyson
Beverly Pneuman
Marcia Heiser
Sam Taylor
Irene Lalich
Felix Flechas
Rick Ahrens
Jeffrey Kerrane
Jeffrey McPherson
Jean Wilkie
Hal Lunka
Linda Fahrenbruch,
Judy Enderle
Roger Kelley
Jini Bates
Geoffrey Urland
Nick Fazzini
Klea Jones
Bryce Isaacson
Jeremy Fancher
Liz Law-Evans
Lisa Moore
David Hastings
Don Dunshee
Jessica Erickson
Jennifer Kerr

The Citizens of the City and County of Broomfield

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Introduction/Background

A. Purpose of the Plan

In September 2008, Broomfield Council requested a status report on the Environmental Stewardship Chapter of the 2005 Comprehensive Plan. Substantial progress has been made towards the 2005 goals. As a result Council directed staff to update the Environmental Stewardship section with respect to the triple bottom line aspects of environmental, economic and social sustainability. An agreement was executed with the National Civic League (NCL) and the University of Colorado Denver (UCD) to assist Broomfield in a public process to define sustainability and develop a Sustainability Plan.

With UCD's guidance, the process began with four focus groups. Residents and local business representatives were brought together and surveyed to gauge the public's knowledge on sustainability issues and to begin to identify areas of interest for the community with regard to sustainability. UCD's survey questions were developed to indentify not only areas of community interest, but also to identify who should be responsible for providing programs and services, and who should pay for programs and services.

In parallel with the focus group efforts, an extensive community wide recruitment process began to solicit residents for a Sustainable Community Task Force. The recruitment included letters to many sectors of the community including service groups, health professionals, academia, the faith community, and students from Broomfield High School and Legacy High School. Members were also solicited from small, medium and large local businesses. The Broomfield Economic Development Corporation and Broomfield Chamber of Commerce were asked to provide representatives for their organizations. Broomfield's standing advisory committees including Health and Human Services Advisory Committee, Senior Resources, Open Space and Trails Advisory Committee, Land Use Review Committee, Parks and Recreation Advisory Committee, and the Library Board were also asked to select a representative from each committee to serve on the Task Force. Council was asked to designate two representatives, and all were encouraged to participate. In addition to the Mayor and two councilmember representatives, each councilmember was asked to appoint a representative from their ward.

After the application process and interviews in March 2009, a 30 member Sustainable Community Task Force was convened to participate in an eighteen month public process to the update of the Environmental Stewardship section of the 2005 Comprehensive Plan. The National Civic League (NCL) provided assistance to the Task Force by facilitating the meetings and setting them on the right track to write the plan. The University of Colorado Denver Center for Sustainable Urban Infrastructure (UCD) provided technical assistance on definitions of sustainability, the meaning of greenhouse gases and climate change, conducted greenhouse gas accounting of the community, and provided options and recommendations of possible action steps to the Task Force. UCD also summarized and

provided the focus group and survey results to inform the Task Force. The Task Force goal was to address sustainability in the community and to propose goals, policies and actions steps to City Council for adoption.

B. Plan Organization

The Sustainability Plan contains nine sections

- Introduction/Background
- Vision
- Resource Conservation-Goals, Policies and Action Steps
- Energy Efficiency/Alternative Energy-Goals, Policies and Action Steps
- Community Education-Goals, Policies and Action Steps
- Economic Development-Goals, Policies and Action Steps
- Transportation-Goals, Policies and Action Steps
- Implementation Matrix
- Appendices

As used previously in the 2005 Comprehensive Plan and for the purposes of this Sustainability Plan the following concepts and terminology apply:

Goal: A goal is an end toward which efforts is directed and that provides the community with direction. A goal is a desired ideal and a value to be sought.

Policy: A policy is a statement of principle or a course of action that provides a broad framework for guiding governmental action and decision making.

Action Step: Action Steps are specific actions necessary to implement or support the specific, identified policy.

C. Relationship to Comprehensive Plan

The 2005 Comprehensive Plan is the official statement of Broomfield's vision and is intended to serve as the principal planning document addressing Broomfield's goals and policies for key community issues. The Sustainability Plan is an update of the Environmental Stewardship Chapter of the 2005 Comprehensive Plan. The Task Force reviewed the status of each of the previous Goals, Policies and Action Steps in the Environmental Stewardship Chapter and developed recommendations for the City Council to consider as amendments to the 2005 Comprehensive Plan in the areas of Environmental Sustainability, Transportation and Economic Development. The contents of the Sustainability Plan will be inserted into the Comp Plan, as amendments, in place of or in addition to existing goals, policies and action steps.

D. Vision

In order for the Task Force to make recommendations for community sustainability, the group needed to agree on the definition of sustainability and develop a vision statement of what their ideal community would look like. As background information, the Task Force received technical information from the UCD focus groups and surveys conducted in the community as well as a summary of the greenhouse gas accounting done by the University.

The Task Force defined sustainability as “*Integrating the economic, social and environmental objectives of society in order to maximize well-being in the present while ensuring the ability of future generations to meet their own needs.*” After deliberating on what the members find important in their community, they developed their vision statement.

Vision Statement:

Broomfield enjoys prosperity as an environmentally, economically, and socially sustainable community. We protect and preserve our social and physical environment and ecosystems through education, community engagement, conservation, and cultural opportunities supported by economic strength and diversity.

The CITY and COUNTY OF BROOMFIELD SUSTAINABILITY PLAN

SECTION A: RESOURCE CONSERVATION

Vision Statement for Resource Conservation:

Broomfield is developed in a manner that limits demands and impacts on the quality of natural resources and wildlife. Land usage is planned and land is developed to protect it from contamination and degradation. All resources, wildlife and air and water quality are used and preserved in a manner that preserves the ability of future generations to use and enjoy them for their own needs.

GOAL S-A.I: RESOURCE CONSERVATION

Protect the environment through the preservation of wildlife, reduction of waste, conservation of water, and enhancement of land, water and air quality

Policy S-A.1: Establish and use standards, policies and practices that encourage and support the protection of wildlife.

Action Step S-A.1.1: Whenever feasible, humanely relocate displaced wildlife during the development of undeveloped property. When relocation is not an option, then euthanasia should be done humanely whenever possible.

Action Step S-A.1.2: Consider revision of the Municipal Code to establish requirements for a Wildlife/Environmental Analysis and methods to mitigate wildlife impacts for proposed development projects.

Action Step S-A.1.3: Implement the OSPRT Master Plan's Baseline Management Plan for each open space property to assess the quality of vegetation, wetlands, wildlife habitat and waterways for potential enhancement and restoration. Plan should address critical habitat areas and steps to protect these areas.

Action Step S-A.1.4: Define and implement open space maintenance requirements.

Policy S-A.2: Establish and use standards, policies and practices that encourage and support the reduction of waste.

Action Step S-A.2.1: Maintain and strengthen household hazardous waste pickup programs in Broomfield. Ensure that the program expands as households in Broomfield grow.

Action Step S-A.2.2: Require all licensed trash haulers in Broomfield provide recycling programs to residents and businesses.

Action Step S-A.2.3: Continue to improve operations of the Broomfield Recycling Center. Ensure that the Center's capacity grows proportionate to Broomfield's population.

Action Step S-A.2.4: Periodically review the Broomfield Recycling Ordinance for new development projects (Chapter 17-34-060 Broomfield Municipal Code) to determine its effectiveness in encouraging increased recycling efforts, and institute necessary changes to strengthen its effectiveness.

Action Step S-A.2.5: Explore partnering with local retailers and advocacy groups to encourage businesses to reduce the use of plastic shopping bags by providing other recyclable, compostable, or reusable containers.

Action Step S-A.2.6: Investigate requiring residential volume-based trash collection and composting programs that are up to the standards of surrounding local communities. Ideally recycling services would be included in the trash hauler's fees as a way to increase recycling volumes.

Action Step S-A.2.7: Require data reporting by trash haulers to evaluate the effectiveness of waste reduction policies and programs and establish a baseline for waste and recyclables collected in Broomfield.

Action Step S-A.2.8: Maintain and strengthen Broomfield City and County government recycling efforts to act as a role model for the rest of the community.

Action Step S-A.2.9: For all planned construction or demolition of structures, encourage contractors to reuse or recycle as much construction and demolition debris as practical in order to divert materials from the landfill.

Action Step S-A.2.10: Encourage builders of new construction and renovations to utilize concrete made with recycled concrete aggregate, fly ash or other industry best practice.

Policy S-A.3: Establish and use standards, policies and practices that encourage and support water conservation.

Action Step S-A.3.1: Encourage water conservation through program(s) that promote and/or reward citizens to use water-efficient appliances, etc.

Action Step S-A.3.2: Encourage water conservation and energy efficiency at Broomfield's water and wastewater treatment facilities by achieving an Energy Star rating of at least 75% from Energy Star Portfolio Manager.

Action Step S-A.3.3: Establish minimum water conservation standards for both public and private landscape and irrigation systems to further minimize water

usage. Include drought tolerant plant material and efficient irrigation practices such as rain sensors with irrigation systems as suggestions.

Action Step S-A.3.4: Adopt existing “green building” standards at or above national model codes that encourage water efficiency for all new construction and developments.

Action Step S-A.3.5: Encourage proposed developments to utilize Broomfield’s reuse water system whenever possible.

Action Step S-A.3.6: Continue to review and develop water conservation practices for use during drought conditions, for residents and businesses, which are implemented either on a voluntary or a mandatory basis, depending on the severity of drought conditions and available water supply.

Action Step S-A.3.7: Revise the Municipal Code to require, at time of installation, the use of 3 cubic yards of Class 1 compost per 1000 square feet of landscaped area for homeowners and commercial properties, homeowner association common areas, and all other landscaped areas.

Action Step S-A.3.8: Encourage water conservation by determining best practices and investigating alternative rate structures.

Action Step S-A.3.9: Create incentives for the use of drought resistant grasses in lieu of traditional turf to encourage water conservation.

Action Step S-A.3.10: Coordinate with surrounding communities and the region to conserve water.

Policy S-A.4: Establish and use standards, policies and practices that encourage and support the preservation and enhancement of land.

Action Step S-A.4.1: Encourage developments to minimize grading by avoiding steep slopes and planning roadways and lots that work within the existing topography.

Action Step S-A.4.2: Encourage development to avoid excessive site grading and unnecessary grade changes between new and existing development.

Action Step S-A.4.3: Encourage compact development that preserves larger tracts of undeveloped natural areas.

Action Step S-A.4.4: Consider requirements for new development to protect mature trees, identify potential impacts on trees and provide implementation measures for protecting existing valuable trees.

Action Step S-A.4.5: Protect and enhance lands as called for in the Land Use Map and Open Space, Parks, Recreation and Trails Master Plan.

Action Step S-A.4.6: Prepare and consider an amendment to the Municipal Code to enhance riparian corridor protection by addressing specific setback requirements.

Action Step S-A.4.7: Prepare and consider revisions to the Municipal Code to establish requirements for restoring native vegetation in disturbed areas.

Action Step S-A.4.8: Encourage abundant and quality landscaping through the development review process.

Action Step S-A.4.9: Encourage the protection and preservation of lands called for in the Land Use Map and OSPRT Master Plan.

Action Step S-A.4.10: Adopt guidelines for open space management that encourage integrated chemical, biological and mechanical weed control (Integrated Pest Management [IPM] practices).

Action Step S-A.4.11: Ensure that open space, parks, recreation and trails planning and development consider and are coordinated with similar efforts in adjacent communities to take full advantage of the benefits of integrating these efforts.

Action Step S-A.4.12: Use OSPRT Master Plan's suitability criteria for open space and parklands as a guide for land acquisitions.

Action Step S-A.4.13: Within the parameters of the DRCOG Urban Growth Boundaries, strive to provide municipal water and sewer service to all citizens in an attempt to discourage long-term use of septic systems, and work in the immediate term to hook up homes within Broomfield's city limits that are on domestic wells whose water quality does not meet drinking water standards.

Action Step S-A.4.14: Implement a combined public and private effort and establish annual goals for new trees and shrubs to be planted in both established areas of Broomfield and in new development projects.

Action Step S-A.4.15: Investigate barriers to community gardening and ways to break down these barriers.

Policy S-A.5: Establish and use standards, policies and practices that encourage and support the enhancement of water quality.

Action Step S-A.5.1: Continue to review and develop effective strategies and regulations to address stormwater and water pollution. Explore the use of natural biological and plant systems to treat urban stormwater runoff.

Action Step S-A.5.2: Continue to review and develop effective wastewater management strategies, which include treatment of pharmaceutical and oil wastes.

Action Step S-A.5.3: Continue to coordinate with neighboring communities and with regional planning forums to develop and implement effective watershed management strategies.

Action Step S-A.5.4: Continue to actively participate in regional and statewide efforts concerning major environmental management issues, such as the development of solid waste disposal sites, wastewater treatment facilities, etc.

Action Step S-A.5.5: Coordinate with neighboring communities and with regional agencies to address water quality concerns, with particular focus on Big Dry Creek.

Policy S-A.6: Establish and use standards, policies and practices that encourage and support the enhancement of air quality.

Action Step S-A.6.1: Encourage appropriate control of fugitive dust from disturbed sites.

Action Step S-A.6.2: Evaluate and implement means to reduce stationary sources of air pollution emissions.

Action Step S-A.6.3: Coordinate air-quality planning efforts related to both mobile and stationary air pollution sources, and support such regional air-quality efforts as the Regional Air Quality Council.

Action Step S-A.6.4: Work with regional boards to achieve air-quality standards and develop local efforts to improve air quality within Broomfield.

Action Step S-A.6.5: Create incentives for residential homebuilders doing new construction to install high efficiency furnaces and water heaters and appliances with the “Energy Star” Rating.

Action Step S-A.6.6: Work with school districts that serve Broomfield to reduce school bus emissions with an anti-idling campaign, diesel retrofits or other emerging technology.

Action Step S-A.6.7: Consider participation with other local communities and counties to minimize carbon emissions from Broomfield activities.

SECTION B: RENEWABLE & ALTERNATIVE ENERGY

Vision Statement:

The City & County of Broomfield is empowered and enlightened. Broomfield ensures an adequate supply of reliable and affordable energy, utilizing new technologies, while minimizing environmental impacts by encouraging conservation and the responsible use of energy.

GOAL S-B.I: CONSERVATION & ENERGY EFFICIENCY

The City & County of Broomfield will utilize technological solutions and provide education/outreach to encourage conservation of energy.

Policy S-B.1: Utilize incentives to encourage awareness and energy conservation efforts of Broomfield citizens and businesses, promote a reduction in consumption and use innovative technological solutions with all energy providers to achieve such reductions through community participation and programs.

Action Step S-B.1.1: Encourage energy efficiency through program(s) that encourage and/or reward citizens for the use of energy-efficient appliances, windows, etc.

Action Step S-B.1.2: Compile and distribute an energy section of the “Welcome Packet” given to new residents outlining our commitment to conservation and “green” initiatives.

Action Step S-B.1.3: Create opportunities to make new technologies, such as visible energy meters, available to residents to increase awareness of in-home energy consumption.

Action Step S-B.1.4: Investigate methods for showcasing energy efficient homes and periodic walkthroughs for members of the community to create awareness of possible energy upgrades to homes.

Action Step S-B.1.5: Provide guest speakers available to the public from the Governor’s Energy Office, Xcel, and other leading energy experts on renewable energy, legislation updates or latest efficiency concepts for local governments.

Action Step S-B.1.6: The City & County of Broomfield will annually review existing programs and propose new goals at a local level for energy conservation.

Action Step S-B.1.7: Participate in Regional Partnerships with neighboring municipalities, DRCOG, and the state in order to be included in energy related policies, programs, and legislation updates.

Action Step S-B.1.8: Create a bond or other appropriate program for Broomfield residents to receive home energy audits and make improvements to conserve energy, which will be repaid via property taxes imposed on the benefiting homeowner.

Policy S-B.2: Establish and use standards, policies and practices for new development and redevelopment that encourage and support conservation, use of alternative energy resources, water conservation and pollution prevention/reduction.

Action Step S-B.2.1: The City & County will strive to establish an Energy Star rating on all new community construction and significant renovations.

Action Step S-B.2.2: Establish a baseline for energy use in Broomfield buildings to measure against future buildings. Preserve anonymity of properties in establishing this baseline.

Action Step S-B.2.3: Evaluate and research current use of energy to establish baseline measurements that target conservation efforts.

Action Step S-B.2.4: Continue to enforce the International Energy Conservation Code.

Action Step S-B.2.5: Prepare and consider developing programs that encourage energy-efficient “green building” practices.

Action Step S-B.2.6: Encourage large development projects to participate in the Leadership on Energy and Environmental Design (LEED) program or similar programs, as appropriate.

GOAL S-B.II: DEVELOPMENT of ALTERNATIVE ENERGY TECHNOLOGY

Serve as a role model to the community by evaluating and utilizing alternative energies and emerging technologies.

Policy S-B.3: The City and County of Broomfield will lead by example and serve as a role model by utilizing new and emerging technologies.

Action Step S-B.3.1: The City and County of Broomfield will continually review new energy technologies and propose state-of-the-art solutions.

Action Step S-B.3.2: The City and County will consider and utilize all alternative energy technologies to supplement power to the grid.

Action Step S-B.3.3: Encourage the use of future monitoring technologies to guide and conserve usage and other practices that allow for conscious decisions about energy consumption via adjusting and monitoring devices (i.e. Demand Side Management).

Policy s-B.4: Continue to monitor environmental regulations to assure compliance with all relevant federal, regional and local environmental laws, standards, policies and goals.

Action Step S-B.4.1: Continue to maintain compliance with Federal energy mandates/legislation on new technologies; City & County will also advance these mandates to move quickly when feasible.

GOAL S-B.III: PROVISION of ELECTRICAL SERVICES

The City & County of Broomfield is committed to ensuring that reliable, affordable, and clean energy is available to all residential and commercial structures.

Action Step S-B.4.2: Consider the establishment of a municipally owned and operated electric utility service at the time of contract renewal (long-range goal of energy independence).

Action Step S-B.4.3: Explore sustainability criteria that should be met in order to be awarded an electrical service franchise or other program as research evolves.

Action Step S-B.4.4: Actively participate and engage in the national and statewide energy programs to help reach local level energy efficiency goals.

Action Step S-B.4.5: Create partnerships and participation in energy related policy with neighboring communities.

Action Step S-B.4.6: Encourage new development projects to incorporate distributed generation technology to diversify electricity sources.

SECTION C: COMMUNITY EDUCATION

GOAL S-C.I: COMMUNITY EDUCATION

Broomfield advances sustainability by educating and engaging our community in the implementation of environmentally, economically and socially sound practices.

Policy S-C.1: Community members understand the concept of sustainability and know they play a key role by the choices they make every day.

Action Step S-C.1.1: Provide educational activities to accommodate the schedules of community members.

Action Step S-C.1.2: Offer multi-lingual environmental education materials and training.

Action Step S-C.1.3: Offer environmental education materials and training to hard-to-reach audiences.

Action Step S-C.1.4: Create environmentally themed sustainability events, and include sustainability within other organized activities.

Action Step S-C.1.5: The City will provide an “Environmental Information Packet” to organizations interested in practicing sustainability for their activities and events at City and County facilities.

Action Step S-C.1.6: Where feasible, encourage non-profits and other organizations that use available city facilities to implement sustainable practices.

Action Step S-C.1.7: Utilize existing media to enhance sustainable education efforts regarding sustainability.

Action Step S-C.1.8: Connect and cooperate with other Broomfield education programs to integrate best practices of sustainability.

Action Step S-C.1.9: Make use of social networking sites (Twitter, Facebook etc.) to inform citizens of sustainable activities or programs.

Policy S-C.2: The City and County of Broomfield recognizes individual citizens, businesses and non-profits for outstanding environmental behaviors and practices.

Action Step S-C.2.1: Develop citywide Sustainability Awards to inspire and provide models of sustainable practices for the community.

Action Step S-C.2.2: Develop a grant program to encourage citizens, businesses and non-profit organizations to participate in sustainable practices. Pursue funding from state and federal partners for the grant programs.

Policy S-C.3: The City & County will offer training opportunities and work projects to individuals and groups related to environmental stewardship.

Policy S-C.4: The City & County of Broomfield will provide specific resources to sustainability programs.

Action Step S-C.4.1: Broomfield will name a Sustainability Manager to oversee sustainable efforts.

Action Step S-C.4.2: The City Council will form a Sustainability Advisory Committee.

Policy S-C.5: Consistently monitor and periodically evaluate the progress of Broomfield toward becoming a “Sustainable Community.”

Action Step S-C.5.1: Develop sustainability indicators and benchmarks to measure goals.

Action Step S-C.5.2: The Sustainability Advisory Committee will evaluate the indicators and benchmarks on an annual basis.

Action Step S-C.5.3: The committee will share the annual evaluation with the citizens and businesses of Broomfield.

Policy S-C.6: Make additional resources available to local public, private and home-schooled students to promote sustainability education for K-12.

Action Step S-C.6.1: Develop a grant program to fund sustainable projects, practices, and programs for students of all ages.

Action Step S-C.6.2: Develop programs on sustainability practices for use by students. The city will provide topic expert speakers as resources for the programs.

Policy S-C.7: Articulate the vision and goals of the other subcommittees as they relate to education.

Action Step S-C.7.1: Organize projects and events (Bulb-Board at Broomfield Days, Door-to-Door Campaigns, and Low-Income Energy Savings Outreach Program) for energy education of the community.

Action Step S-C.7.2: Create a Sustainability Clearinghouse on the City website with links to the Governor’s Energy Office, United Power, Xcel, Energy Star, rebate information, etc., so residents can get answers, ask questions, post new ideas, and comments.

Action Step S-C.7.3: Continue to provide community education on the value and importance of human coexistence with wildlife.

Action Step S-C.7.4: Educate the public regarding the benefits of choosing non-motorized transportation.

Action Step S-C.7.5: Increase the number of “Walk to School” and “Bike to School” days, utilizing liaisons with the schools and police. Encourage community education at a young age. Encourage “walk to school” clubs or similar efforts.

Action Step S-C.7.6: Enhance community information and advocacy about the pedestrian, bike and off-street trail systems.

Action Step S-C.7.7: Develop educational programs for residents to use reusable shopping bags.

SECTION D: ECONOMIC & FINANCIAL SUSTAINABILITY

The Economic & Financial Sustainability group reviewed the Economic Development section of the 2005 Comprehensive Plan. The following are additions and/or revisions as pertaining to sustainability. The complete comprehensive plan is available at www.broomfield.org.

Vision Statement:

Broomfield is a leader in practices that promote the economic vitality of Broomfield through attraction, retention and expansion of business activities. This provides economic opportunities for residents to live, work and shop in Broomfield sustaining the quality of Broomfield for future generations.

GOAL S-D.I: ADEQUATE TAX BASE

Provide an adequate property and sales tax base to support quality city services, facilities and amenities as identified within the Long-Range Financial Plan.

Policy S-D.1: Maintain and adjust, as necessary, the balance of land uses within the community to support the fiscal objectives of the Financial Master Plan, as well as the community values (e.g., the provision of open space).

Policy S-D.2: Adopt an industry cluster approach to encourage business growth.

Action Step S-D.2.1: Actively recruit new retail and business tenants in cooperation with the Broomfield Economic Development Corporation, property owners and developers.

Action Step S-D.2.2: Develop marketing materials to promote business attraction and retention that emphasize best and next practices in business development.

Action Step S-D.2.3: Attract higher density in-fill development, reducing land consumption, increasing multi-modal transportation use and creating support of local businesses.

Action Step S-D.2.4: Develop assistance programs for resource appropriate businesses to encourage the retention, expansion and attraction of businesses valued by the community. Financial and technical support as well as potential changes to codes and policies should be provided.

GOAL S-D.II: LOCAL & REGIONAL SHOPPING:

Enhance and expand local and regional shopping opportunities in Broomfield.

Policy S-D.3: Actively engage our existing business community through the development of a Broomfield Business Team that meets with Broomfield businesses to better understand practices that help attain sustainability.

Policy S-D.4: Implement a “Hometown Broomfield” branding strategy in partnership with the City and County of Broomfield, the Broomfield Chamber of Commerce and the Broomfield Economic Development Corporation. The branding program should include a buy local component for business to consumers and encourage local business-to-business cooperation to reduce transportation of goods, minimizing the environmental footprint.

Policy S-D.5: Utilize our sub-area planning process in conjunction with market trends to be more responsive to opportunities.

Action Step S-D.5.1: Adopt policies and programs that promote rehabilitation and revitalization of “weary” and “dated” shopping areas promoting cluster and other re-investment tools encouraging “in-fill” businesses.

Action Step S-D.5.2: Develop and implement strategies that encourage all businesses to support multimodal transportation strategies.

GOAL S-D.III: SUSTAINABLE BUSINESS PRACTICES

Action Step S-D.5.3: Utilize area research institutes to attract and retain businesses developing clean energy technologies.

Action Step S-D.5.4: Encourage local businesses to minimize energy consumption with best and next practices as described by the Renewable and Alternative Energy section of this Sustainability Plan.

Action Step S-D.5.5: Promote opportunities for incubator development that encourages sustainable businesses.

Action Step S-D.5.6: Re-evaluate present citywide operating strategies to create alternative sustainable revenue generation opportunities.

GOAL S-D.IV: EMPLOYMENT

Build a strong and diversified employment base in Broomfield that minimizes cyclical impacts of market changes and that provides job opportunities for Broomfield residents of all skills.

Policy S-D.6: Encourage and support partnerships with institutions involved in the ongoing education/reeducation and ongoing training/retraining of Broomfield's youth and workforce to support evolving business needs and best and next practices in sustainability.

Policy S-D.7: In cooperation with BEDC, encourage the retention and the attraction of entrepreneurial firms, including nonprofits, through an array of financial and regulatory incentives and strategies that provide flexibility and access to capital and facilities. Create additional incentives to promote sustainable and environmentally friendly business ventures as well as sustainable improvement efforts for existing businesses.

Policy S-D.8: Create a quality, working atmosphere to include amenities such as urban villages, telecommunications and transportation infrastructure, mobility options, urban agriculture gardens, open space and recreational opportunities.

Policy S-D.9: Maintain and promote effective commerce by assisting new and existing green and clean businesses with governmental regulations, reviews and approvals. An emphasis will be placed on customer service and a business-friendly attitude.

Policy S-D.9: Ensure an adequate supply of appropriately zoned land for a diversified mix of manufacturing, services and business support services.

Action Step S-D.9.1: Use zoning and land use controls to maintain existing industrially zoned properties, and discourage the conversion of such land to other uses while promoting sustainable use of the land.

Action Step S-D.9.2: Investigate methods, such as land banking or restrictive zoning, to provide an adequate supply of industrial land.

GOAL S-D.V: COMMERCIAL VITALITY

Maintain and enhance the vitality of existing neighborhoods and commercial areas.

Policy S-D.10: Encourage private investment through continued public investment in facilities, infrastructure and services, such as parks, roadways and improved police patrols. Develop policies and programs to direct capital funds and improvements into targeted residential and commercial areas.

Policy S-D.11: Encourage and create incentives for redevelopment opportunities in existing older residential neighborhoods that reinvent neighborhoods and apply mixed-use development strategies that utilize next and best sustainability practices.

Policy S-D.12: Encourage a mix of densities, types and cost of housing in or near older commercial and residential areas to allow residents to walk to services and provide additional customers to the commercial areas. Promote the application of mixed-use sustainable development strategies for enhancing tax base both commercial and residential.

Policy S-D.13: Develop policies that encourage reinvestments and redevelopment of older residential neighborhoods and that respect and maintain the physical character of those areas.

Policy S-D.14: Actively recruit, in cooperation with the BEDC, appropriate users, new and/or existing, to locate in and revitalize older or underutilized commercial centers.

SECTION E: TRANSPORTATION

The Transportation group reviewed the Transportation section of the 2005 Comprehensive Plan and recommended the following additions and/or revisions that pertain to sustainability. The full Transportation Master Plan is available at www.broomfield.org.

Vision Statement:

Provide an efficient and well-maintained multi-modal transportation system that serves all segments of the population, effectively accommodates the demands of growth, facilitates convenient internal and regional accessibility, minimizing environmental impacts, and reduces dependence on the automobile. Supply multiple modes of educational materials to inform public concerning the diversity of transportation options. Encourage use of telecommuting and other electronic systems to deliver information, goods, and services, thus reducing the load on the physical transportation network.

GOAL S-E.I: ROADWAY CAPACITY:

Provide additional multimodal transportation capacity on roadways to handle existing and projected traffic.

Policy S-E.1: Seek regional and state funding for multimodal transportation capacity improvements. (Includes car, bike, bus and pedestrian capacity improvements).

Action Step S-E.1.1: Continue to seek regional funding to upgrade 144th between Zuni and the Northwest Parkway as a multimodal corridor.

Action Step S-E.1.2: Encourage carpool and ride share programs such as provided by DRCOG or private sectors such as www.avego.com.

GOAL S-E.II: ALTERNATIVE MODES:

Promote and develop practical transportation alternatives to reduce dependence on the automobile. Ensure that multimodal and alternative transportation solutions make it easier for people to move around and within Broomfield. Ensure that Broomfield's multimodal and alternative transportation systems are efficiently connected to regional transit and multimodal systems.

Action Step E.1.3: Continue relationships the city has made with regional and national transportation bodies and encourage Broomfield staff and officials to take even more leadership roles in regional transportation issues.

Action Step E.1.4: Evaluate opportunities to improve efficiencies and use of local transit systems.

GOAL S-E.III: INTERCONNECTED BIKE and PEDESTRIAN SYSTEM

Policy S-E.2: Complete “missing links” in the bike and pedestrian infrastructure. Enhance and maintain the bike and pedestrian infrastructure

Action Step S-E.2.1: Advance increased local funding for alternative transportation improvements.

Action Step S-E.2.2: Pursue grant and/or other outside funding for the alternative transportation improvements.

Action Step S-E.2.3: Provide trail access to trails built on the “Egg Farm” located between 160th Ave and Hwy 7, owned by Lafayette and Boulder County Open Space to continue to connect Coal Creek regional trail systems.

Policy S-E.3: Alternative transportation improvements (i.e., trails and bike lanes) should be designed to connect to other improvements to form a coherent alternative transportation network (rather than “simply” recreational trails). Those who build new roads (including developers) shall be encouraged to plan and construct alternative transportation improvements in addition to the new roads. The city shall consider alternative transportation improvements and project feasibility as the infrastructure requirements are established.

Appendix A Implementation Strategy

The measure of the success of the Sustainability Plan is the ability to implement the Plan's vision, goals, and policies. One way to accomplish this aim is through the implementation of the Plan's Action Steps.

Through a facilitated process the Sustainable Community Task Force developed a weighted list of criteria. The Task Force then assigned ranks to each of the recommended action steps against the three criteria and assigned a weighted score. The table below explains the ranking system.

Table Metrics for Criteria Ranking

Criteria	Weight*	Ranking Scale		
Balancing Benefits with Costs	___%	1 - Benefits minimal with low or high cost	2 - Level of benefit justifies cost (e.g. 1:1)	3 - Significant Benefits with low cost
Ease of Implementation	___%	1 - Significant effort is needed to deploy with major behavioral change needed	2 - Effort is needed to deploy with moderate behavioral change needed	3 - Minimal effort is needed to deploy with minimal behavioral change needed.
Importance	___% <hr/> Total 100%	1 - Citizen/ Business would not expect this activity/behavior and may question; may not demonstrate progress	2 - Some Citizens/ Businesses questioning this activity/behavior, but progress would be demonstrated	3 -Citizens/ Businesses would expect this activity/behavior and would support; progress would be demonstrated

*Weights TBD at May 20,2010 Task Force Meeting.

In order to dovetail this plan with the internal audit done by MWH, the MWH ranking system was used. Utilizing the criteria, weights and ranks, each action step was given a score (weight multiplied by the ranking score). The rankings given to each of the action steps along with the final weighted scores are shown in the table below. The following implementation matrix identifies the relative scale of each action step weighted according to the importance, balancing benefits with costs, and ease of implementation of each step.

The action steps with the highest overall score are potential early action items for implementation. The potential early action steps are highlighted in green.

Implementation Strategy	Balancing Benefit w/ Cost	Ease of Implementation	Importance	Weighted Score
Resource Conservation: Wildlife Protection				
Action Step S-A.1.1: Whenever feasible, humanely relocate displaced wildlife during the development of undeveloped property. When relocation is not an option, then euthanasia should be done humanely whenever possible.	2	3		
Action Step S-A.1.2: Consider revision of the Municipal Code to establish requirements for a Wildlife/Environmental Analysis and methods to mitigate wildlife impacts for proposed development projects.	3	3		
Action Step S-A.1.3: Implement the OSPRT Master Plan’s baseline management plan for each open space property to assess the quality of vegetation, wetlands, wildlife habitat and waterways for potential enhancement and restoration. Plans address critical habitat areas and steps to protect these areas.	2	3		
Action Step S-A.1.4: Define and implement open space maintenance requirements.	2	3		
Resource Conservation: Waste Reduction				
Action Step S-A.2.1: Maintain and strengthen household hazardous waste pickup programs in Broomfield. Ensure that the program expands as households in Broomfield grow.	3	3		
Action Step S-A.2.2: Require all licensed trash haulers in Broomfield provide recycling programs to residents and businesses.	2	2		
Action Step S-A.2.3: Continue to improve operations of the Broomfield Recycling Center. Ensure that the Center’s capacity grows proportionate to Broomfield’s population and business community.	3	3		
Action Step S-A.2.4: Periodically review the Broomfield Recycling Ordinance for new development projects (Chapter 17-34-060 Broomfield Municipal Code) to determine its effectiveness in encouraging increased recycling efforts, and institute necessary changes to strengthen its effectiveness.	2	3		
Action Step S-A.2.5: Explore partnering with local retailers and advocacy groups to encourage businesses to reduce the use of plastic shopping bags and other non-recyclable, non-compostable, and non-reusable containers.	2	2		
Action Step S-A.2.6: Investigate requiring residential volume-based trash collection and composting programs that are up to the standards of surrounding local communities. Ideally recycling services would be included in the trash hauler’s fees as a way to increase recycling volumes.	2	1		

Implementation Strategy	Balancing Benefit w/ Cost	Ease of Implementation	Importance	Weighted Score
Action Step S-A.2.7: Require data reporting by trash haulers to evaluate the effectiveness of waste reduction policies and programs and establish a baseline for waste and recyclables collected in Broomfield.	3	2		
Action Step S-A.2.8: Maintain and strengthen Broomfield City and County government recycling efforts to act as a role model for the rest of the community.	3	3		
Action Step S-A.2.9: For all planned construction or demolition of structures, encourage contractors to reuse or recycle as much construction and demolition debris as practical in order to divert materials from the landfill.	2	2		
Action Step S-A.2.10: Encourage builders of new construction and renovations to utilize concrete made with recycled concrete aggregate, fly ash or other industry best practice.	3	3		
Resource Conservation: Water Conservation				
Action Step S-A.3.1: Encourage water conservation through program(s) that promote and/or reward citizens to use water- efficient appliances, etc.	2	2		
Action Step S-A.3.2: Encourage water conservation and energy efficiency at Broomfield’s water and wastewater treatment facilities by achieving an Energy Star rating of at least 75% from Energy Star Portfolio Manager.	1	1		
Action Step S-A.3.3: Establish minimum water conservation standards for both public and private landscape and irrigation systems to further minimize water usage. Include drought tolerant plant material and efficient irrigation practices such as rain sensors with irrigation systems as suggestions.	2	2		
Action Step S-A.3.4: Adopt existing “green building” standards at or above national model codes that encourage water efficiency for all new construction and developments.	3	3		
Action Step S-A.3.5: Encourage proposed developments to utilize Broomfield’s reuse water system whenever possible.	3	3		
Action Step S-A.3.6: Continue to review and develop water conservation practices for use during drought conditions, for residents and businesses, which are implemented either on a voluntary or a mandatory basis, depending on the severity of drought conditions and available water supply.	3	3		
Action Step S-A.3.7: Revise the Municipal Code to require, at time of installation, the use of 3 cubic yards of Class 1 compost per 1000 square feet of landscaped area for homeowners and commercial properties, homeowner association common areas, and all other landscaped areas.	3	3		

Implementation Strategy	Balancing Benefit w/ Cost	Ease of Implementation	Importance	Weighted Score
Action Step S-A.3.8: Encourage water conservation by determining best practices and investigating alternative rate structures.	2	2		
Action Step S-A.3.9: Create incentives for the use of drought resistant grasses in lieu of traditional turf to encourage water conservation.	3	2		
Action Step S-A.3.10: Coordinate with surrounding communities and the region to conserve water.	2	2		
Resource Conservation: Land Preservation				
Action Step S-A.4.1: Encourage developments to minimize grading by avoiding steep slopes and planning roadways and lots that work within the existing topography.	3	3		
Action Step S-A.4.2: Encourage development to avoid excessive site grading and unnecessary grade changes between new and existing development.	3	3		
Action Step S-A.4.3: Encourage compact development that preserves larger tracts of undeveloped natural areas.	3	3		
Action Step S-A.4.4: Consider requirements for new development to protect mature trees, identify potential impacts on trees and provide implementation measures for protecting existing valuable trees.	3	2		
Action Step S-A.4.5: Protect and enhance lands as called for in the Land Use Map and Open Space, Parks, Recreation and Trails Master Plan.	3	3		
Action Step S-A.4.6: Prepare and consider an amendment(s) to the Municipal Code to enhance riparian corridor protection by addressing specific setback requirements.	3	2		
Action Step S-A.4.7: Prepare and consider revisions to the Municipal Code to establish requirements for restoring native vegetation in disturbed areas.	3	3		
Action Step S-A.4.8: Encourage abundant and quality landscaping through the development review process.	3	3		
Action Step S-A.4.9: Encourage the protection and preservation of lands called for in the Land Use Map and OSPRT Master Plan.	3	3		
Action Step S-A.4.10: Adopt guidelines for open space management that encourage integrated chemical, biological and mechanical weed control (Integrated Pest Management (IPM) practices).	3	3		
Action Step S-A.4.11: Ensure that open space, parks, recreation and trails planning and development consider and are coordinated with similar efforts in adjacent communities to take full advantage of the benefits of integrating these efforts.	3	3		
Action Step S-A.4.12: Use OSPRT Master Plan's suitability criteria for open space and park lands as a guide for land acquisitions.	3	3		

Implementation Strategy	Balancing Benefit w/ Cost	Ease of Implementation	Importance	Weighted Score
Action Step S-A.4.13: Within the parameters of the DRCOG Urban Growth Boundaries, strive to provide municipal water and sewer service to all citizens in an attempt to discourage long-term use of septic systems, and work in the immediate term to hook up homes within Broomfield’s city limits that are on domestic wells whose water quality does not meet drinking water standards.	3	3		
Action Step S-A.4.14: Implement a combined public and private effort and establish annual goals for new trees and shrubs to be planted in both established areas of Broomfield and in new development projects.	3	3		
Action Step S-A.4.15: Investigate barriers to community gardening and ways to break down these barriers.	3	2		
Resource Conservation: Water Quality				
Action Step S-A.5.1: Continue to review and develop effective strategies and regulations to address storm-water and water pollution. Explore the use of natural biological and plant systems to treat urban stormwater runoff.	2	2		
Action Step S-A.5.2: Continue to review and develop effective wastewater management strategies, which include treatment of pharmaceutical and oily wastes.	1	1		
Action Step S-A.5.3: Continue to coordinate with neighboring communities and with regional planning forums to develop and implement effective watershed management strategies.	3	3		
Action Step S-A.5.4: Continue to actively participate in regional and state-wide efforts concerning major environmental management issues, such as the development of solid waste disposal sites, wastewater treatment facilities, etc.	3	2		
Action Step S-A.5.5: Coordinate with neighboring communities and with regional agencies to address water quality concerns, with particular focus on Big Dry Creek.	3	2		
Resource Conservation: Air Quality				
Action Step S-A.6.1: Encourage appropriate control of fugitive dust from disturbed sites.	3	3		
Action Step S-A.6.2: Evaluate and implement means to reduce stationary sources of air pollution emissions.	3	3		

Implementation Strategy	Balancing Benefit w/ Cost	Ease of Implementation	Importance	Weighted Score
Action Step S-A.6.3: Coordinate air-quality planning efforts related to both mobile and stationary air pollution sources, and support such regional air-quality efforts as the Regional Air Quality Council.	3	3		
Action Step S-A.6.4: Work with regional boards to achieve air-quality standards and develop local efforts to improve air quality within Broomfield.	2	2		
Action Step S-A.6.5: Create incentives for residential homebuilders doing new construction to install high efficiency furnaces and water heaters and appliances with the “Energy Star” Rating.	2	2		
Action Step S-A.6.6: Work with school districts that serve Broomfield to reduce school bus emissions with an anti-idling campaign, diesel retrofits or other emerging technology.	2	1		
Action Step S-A.6.7: Consider participation with other local communities and counties to minimize carbon emissions from Broomfield activities.				
Renewable & Alternative Energy: Conservation & Efficiency				
Action Step S-B.1.1: Encourage energy efficiency through program(s) that encourage and/or reward citizens to use energy-efficient appliances, windows, etc.	2	2		
Action Step S-B.1.2: Compile and distribute an energy section of the “Welcome Packet” given to new residents outlining our commitment to conservation and green initiatives.	3	3		
Action Step S-B.1.3: Create opportunities to make new technologies, such as visible energy meters, available to residents to increase awareness of in-home energy consumption.	3	3		
Action Step S-B.1.4: Investigate methods for showcasing energy efficient homes and periodic walkthroughs for members of the community to create awareness of possible energy upgrades to homes.	3	3		
Action Step S-B.1.5: Provide guest speakers available to the public from Governor’s Energy Office, Xcel, and other leading energy experts on renewable energy, legislation updates or latest efficiency concepts for local governments.	3	3		
Action Step S-B.1.6: The City & County of Broomfield will annually review existing programs and propose goals at a local level for energy conservation.	3	3		
Action Step S-B.1.7: Participate in Regional Partnerships with neighboring municipalities, DRCOG, and the state in order to be included in energy related policies, programs, and legislation updates.	2	2		

Implementation Strategy	Balancing Benefit w/ Cost	Ease of Implementation	Importance	Weighted Score
Action Step S-B.1.8: Create a bond or other appropriate program for Broomfield residents to receive home energy audits and make improvements to conserve energy, which will be repaid via property taxes imposed on the benefiting homeowner.	1	1		
Action Step S-B.2.1: The City & County will strive to establish an Energy Star rating on all new community construction and significant renovations.	2	2		
Action Step S-B.2.2: Establish a baseline for energy use in Broomfield buildings to measure against future buildings. Preserve anonymity of properties in establishing this baseline.	3	1		
Action Step S-B.2.3: Evaluate and research current use of energy to establish baseline measurements that target conservation efforts.	3	2		
Action Step S-B.2.4: Continue to enforce the International Energy Conservation Code.	3	3		
Action Step S-B.2.5: Prepare and consider developing programs that encourage energy-efficient “green building” practices.	3	3		
Action Step S-B.2.6: Encourage large development projects to participate in the Leadership on Energy and Environmental Design (LEED) program or similar programs, as appropriate.	3	3		
Renewable & Alternative Energy: Alternative Energy				
Action Step S-B.3.1: The City and County of Broomfield will continually review new energy technologies and propose state-of-the-art solutions.	2	1		
Action Step S-B.3.2: The City and County will consider and utilize all alternative energy technologies to supplement power to the grid.	2	1		
Action Step S-B.3.3: Encourage the use of future monitoring technologies to guide and conserve usage and other practices that allow for conscious decisions about energy consumption via adjusting and monitoring devices (i.e. Demand Side Management).	2	2		
Action Step S-B.4.1: Maintain compliance with Federal <i>energy</i> mandates/legislation on new technologies; City & County will also advance these mandates to move quickly when feasible.	3	2		
Renewable & Alternative Energy: Provision of Electrical Services				
Action Step S-B.4.2: Consider the establishment of a municipally owned and operated electric utility service at the time of contract renewal (long-range goal of energy independence).	2	1		
Action Step S-B.4.3: Explore sustainability criteria that should be met in order to be awarded an electrical service franchise or other program as research evolves.	3	3		

Implementation Strategy	Balancing Benefit w/ Cost	Ease of Implementation	Importance	Weighted Score
Action Step S-B.4.4: Actively participate and engage in the national and statewide energy programs to help reach local level energy efficiency goals.	3	3		
Action Step S-B.4.5: Create partnerships and participation in energy related policy with neighboring communities.	3	3		
Action Step S-B.4.6: Encourage new development projects to incorporate distributed generation technology to diversify electricity sources.				
Community Education:				
Action Step S-C.1.1: Provide educational activities to accommodate the schedules of community members.	3	3		
Action Step S-C.1.2: Offer multi-lingual environmental education materials and training.	2	2		
Action Step S-C.1.3: Offer environmental education materials and training to hard to reach audiences.	3	3		
Action Step S-C.1.4: Create environmentally themed sustainability events, and include sustainability within other organized activities.	3	3		
Action Step S-C.1.5: The City will provide an “Environmental Information Packet” to organizations interested in practicing sustainability for their activities and events at City and County facilities.	3	3		
Action Step S-C.1.6: Where feasible, encourage non-profits and other organizations that use available city facilities to implement sustainable practices.	3	3		
Action Step S-C.1.7: Utilize existing media to enhance sustainable education efforts regarding sustainability.	3	3		
Action Step S-C.1.8: Connect and cooperate with other Broomfield education programs to integrate best practices of sustainability.	3	3		
Action Step S-C.1.9: Make use of social networking sites (Twitter, Facebook etc.) to inform the citizens of sustainable activities or programs.	3	3		
Action Step S-C.2.1: Develop citywide Sustainability Awards to inspire and provide models of sustainable practices for the community.	2	2		
Action Step S-C.2.2: Develop a grant program to encourage citizens, businesses and non-profit organizations to participate in sustainable practices.	2	2		
Action Step S-C.4.1: Broomfield will name a Sustainability Manager to oversee sustainable efforts.	2	2		

Implementation Strategy	Balancing Benefit w/ Cost	Ease of Implementation	Importance	Weighted Score
Action Step S-C.4.2: The City Council will form a Sustainability Advisory Committee.	3	3		
Action Step S-C.5.1: Develop sustainability indicators and benchmarks to measure goals.	3	3		
Action Step S-C.5.2: The Sustainability Advisory Committee will evaluate the indicators and benchmarks on an annual basis.	3	3		
Action Step S-C.5.3: The committee will share the annual evaluation with the citizens and businesses of Broomfield.	3	3		
Action Step S-C.6.1: Develop a grant program to fund sustainable projects, practices, and programs for students of all ages.	2	2		
Action Step S-C.6.2: Develop programs on sustainability practices for use by students. The city will provide topic expert speakers as resources for the programs.	2	3		
Action Step S-C.7.1: Organize projects and events (Bulb-Board at Broomfield Days, Door-to-Door Campaigns, and Low-Income Energy Savings Outreach Program) for energy education of the community.	2	2		
Action Step S-C.7.2: Create a Sustainability Clearinghouse on the City website with links to the Governor’s Energy Office, United Power, Xcel, Energy Star, rebate information, etc. so residents can get answers, ask questions, post new ideas, and comments.	3	3		
Action Step S-C.7.3: Continue to provide community education on the value and importance of human coexistence with wildlife.	3	3		
Action Step S-C.7.4: Educate the public regarding the benefits of choosing non-motorized transportation.	3	3		
Action Step S-C.7.5: Increase the number of “Walk to School” and “Bike to School” days, utilizing liaisons with the schools and police. Encourage community education at a young age. Encourage “walk to school” clubs or similar efforts.	3	2		
Action Step S-C.7.6: Enhance community information and advocacy about the pedestrian, bike and off-street trail systems.	3	3		
Action Step S-C.7.7: Develop educational programs for residents to use reusable shopping bags.	3	3		
Economic & Financial Sustainability: Adequate Tax Base				
Action Step S-D.2.1: Actively recruit new retail and business tenants in cooperation with the Broomfield Economic Development Corporation, property owners and developers.	2	2		

Implementation Strategy	Balancing Benefit w/ Cost	Ease of Implementation	Importance	Weighted Score
Action Step S-D.2.2: Develop marketing materials to promote business attraction and retention that emphasize best and next practices in business development.	3	3		
Action Step S-D.2.3: Attract higher density in-fill development, reducing land consumption, increasing multi-modal transportation use and creating support of local businesses.2	2	1		
Action Step S-D.2.4: Develop assistance programs for resource appropriate businesses to encourage the retention, expansion and attraction of businesses valued by the community. Financial and technical support as well as potential changes to codes and policies should be provided.	2	1		
Economic & Financial Sustainability: Local & Regional Shopping				
Action Step S-D.5.1: Adopt policies and programs that promote rehabilitation and revitalization of “weary” and “dated” shopping areas promoting cluster and other re-investment tools encouraging “in-fill” businesses.	2	1		
Action Step S-D.5.2: Develop and implement strategies that encourage all businesses to support multimodal transportation strategies.	3	1		
Economic & Financial Sustainability: Sustainable Business Practices				
Action Step S-D.5.3: Utilize area research institutes to attract and retain businesses developing clean energy technologies.	3	2		
Action Step S-D.5.4: Encourage local businesses to minimize energy consumption with best and next practices as described by the Renewable and Alternative Energy section of this Sustainability Plan.	2	1		
Action Step S-D.5.5: Promote opportunities for incubator development that encourages sustainable businesses.	2	1		
Action Step S-D.5.6: Re-evaluate present citywide operating strategies to create alternative sustainable revenue generation opportunities.	2	1		
Action Step S-D.9.1: Use zoning and land use controls to maintain existing industrially zoned properties, and discourage the conversion of such land to other uses while promoting sustainable use of the land.	2	1		
Transportation: Roadway Capacity				
Action Step S-E.1.1: Continue to seek regional funding to upgrade 144 th between Zuni and the Northwest Parkway as a multimodal corridor.	2	1		

Implementation Strategy	Balancing Benefit w/ Cost	Ease of Implementation	Importance	Weighted Score
Action Step S-E.1.2: Encourage carpool and ride share programs such as provided by DRCOG or private sectors such as www.avego.com .	3	2		
Transportation: Alternative Modes				
Action Step E.1.3: Continue relationships the city has made with regional and national transportation bodies and encourage Broomfield staff and officials to take even more leadership roles in regional transportation issues.	2	2		
Action Step E.1.4: Evaluate opportunities to improve efficiencies and use of local transit systems.	3	3		
Transportation: Interconnected Bike and Pedestrian System				
Action Step S-E.2.1: Advance increased local funding for alternative transportation improvements.	2	1		
Action Step S-E.2.2: Pursue grant and/or other outside funding for the alternative transportation improvements.	2	2		
Action Step S-E.2.3: Provide trail access to trails built on the “Egg Farm” located between 160 th Ave and Hwy 7, owned by Lafayette and Boulder County Open Space to continue to connect Coal Creek regional trail systems.	2	3		

Glossary of Terms

Alternative Modes of Transportation: Any and all transportation types other than the single-occupant motor vehicle. Alternative modes of transportation include bicycles, buses, car pools, vanpools, pedestrians and passenger railroads.

Build out: The point at which a community's land has been fully developed with desired uses (including open space).

Cluster Development: A method of land development designed to preserve open space. Given a fixed number of dwelling units allowed on a specific property, cluster development allows the fixed number of dwelling units to be concentrated in one area of the property as opposed to evenly distributed, creating a separate larger public space rather than a group of small private spaces within individual lots.

Commercial areas: In this plan, commercial areas include areas with various types of businesses as well as industrial areas.

Compost: A combination of decomposed plant and animal and other organic materials that are being decomposed largely through aerobic decomposition into a rich black soil. Compost can be used as a fertilizer on home gardens and can have larger industrial applications.

Comprehensive Plan: A comprehensive long-range plan intended to guide the growth and development of a community that includes analysis, recommendations and proposals for such topics as the community's population, economy, land use, housing, transportation and community facilities. Such plans may also be referred to as Master Plans.

Density: The ratio of residential units on an acre of land. Thus, a permitted density of eight (8) dwelling units per acre for a property that has an area of two (2) acres would allow 16 dwelling units.

Denver Regional Council of Governments (DRCOG): A nonprofit organization of 52 cities and nine counties around the Denver region. DRCOG functions as the Metropolitan Planning Organization for the Denver region, among other planning responsibilities.

Distributed generation technology: The term is used to refer to generation units that are connected to the distribution network rather than to the high voltage transmission grid. There is not yet a well recognized definition of the term, but it usually refers to small scale electricity generation such as photovoltaic, fuel cells, wind power, bio-fuels, micro-generation, energy storage, etc.

Energy Star Rating: Energy Star is a government-backed labeling program that helps people and organizations save money and reduce greenhouse gas emissions by identifying

factories, office equipment, home appliances and electronics that have superior energy efficiency. The standards themselves are set by governmental agencies. Energy Star labels, for instance, are only awarded to homes that have been independently verified to be at least 15% more efficient than the standard mandated by the relevant state or local energy codes in a given area.

FasTracks: A comprehensive plan by the Regional Transportation District (RTD) for expanded rail and bus transit throughout the Denver region.

Green house gases (GHG): Any of the atmospheric gases that contribute to the greenhouse effect by absorbing infrared radiation produced by solar warming of the Earth's surface. They include carbon dioxide (CO₂), methane (CH₄), nitrous oxide (NO₂), and water vapor. Although greenhouse gases occur naturally in the atmosphere, the elevated levels especially of carbon dioxide and methane that have been observed in recent decades are directly related, at least in part, to human activities such as the burning of fossil fuels and the deforestation of tropical forests.

Household Hazardous Waste (HHW): HHW are common household chemicals and substances for which the owner no longer has a use. These substances exhibit many of the same dangerous characteristics as fully regulated hazardous waste due to their potential for reactivity, ignitability, corrosivity, toxicity, and persistence. Examples include drain cleaners, oil point, motor oil, antifreeze, fuel, poisons, pesticides, herbicides and rodenticides, fluorescent lamps, smoke detectors, medical waste, some types of cleaning chemicals, and consumer electronics (such as televisions, computers, and cell phones).

Business incubators (Incubator development): are programs designed to accelerate the successful development of entrepreneurial companies through an array of business support resources and services, developed and orchestrated by incubator management and offered both in the incubator and through its network of contacts. Incubators vary in the way they deliver their services, in their organizational structure, and in the types of clients they serve. Successful completion of a business incubation program increases the likelihood that a start-up company will stay in business for the long term: Historically, 87% of incubator graduates stay in business.

Industry Cluster: A geographic concentration of interconnected businesses, suppliers, and associated institutions in a particular field. Industry clusters help to perpetuate innovation and collaboration to drive competition and long-term economic vitality.

International Energy Conservation Code (IECC): a building code created by the International Code Council in 2006. It is a model code adopted by many state and municipal governments in the United States for the establishment of minimum design and construction requirements for energy efficiency.

Leadership on Energy and Environmental Design (LEED): A voluntary, consensus-based national standard for developing high-performance, sustainable buildings.

Multimodal Transportation: The availability of transportation options using different modes within one system or corridor.

Reuse Water System: The use of “grey” water on public parks and golf courses as a way to conserve limited water resources. Grey water comes from the wastewater treatment process and some of it is put back into the system to be used only as irrigation in the summer months.

Sustainability: “Integrating the economic, social and environmental objectives of society in order to maximize well-being in the present while ensuring the ability of future generations to meet their own needs” – Adapted from the Organization for Economic Cooperation Development.

Telecommuting: In a telecommuting arrangement, the employee works from a home office for either a portion of or all of the workweek. He or she maintains a presence in the office electronically via phone, fax, pager and e-mail and is usually, at a minimum, required to participate in some quarterly, monthly or weekly meetings at the work location.

Vehicle miles traveled (VMT): This is a measurement of the number of miles that residential vehicles are driven. This may be expressed as a total number or as an average per household.