



Sustainable Beaverton

Sustainable Beaverton Strategy

Innovating Together for a Better City



**Sustainable Beaverton Strategy
for City Operations and Services**

Sustainability Division

April 2014

Beaverton, Oregon



Sustainable Beaverton

A LETTER FROM THE MAYOR:



Beaverton Staff:

I am proud to introduce the Sustainable Beaverton Strategy—a path forward to making Beaverton a progressive, sustainable city.

As one of our organization's top priorities, this strategy will be implemented throughout our city's operations and services to support our sustainability goals. We will work together to take us from our current status to a more sustainable organization. Each action in this strategy is vital to our citizens and our future. Together, we will monitor our actions and transparently report our successes and shortcomings.

I am asking everyone to do their part to make this strategy a success. Please think about how your own actions affect our planet, our economy, and the people in our community. Strive to make choices that benefit our future both at home and at work. Taking care of our community and planet is the responsibility of all of us.

Let's come together as we proudly move forward on a responsible path to 'walk our talk' and make our city a sustainability model to emulate.

Mayor Denny Doyle

A handwritten signature in black ink, appearing to read "D. Doyle".

CONTENTS

A LETTER FROM THE MAYOR:	iii
1. Introduction: Sustainable Beaverton Strategy	1
2. Why Sustainability Matters.....	2
3. Early Actions Supporting Sustainability	3
4. Beaverton’s Profile and Future Growth	4
5. Organizational Chart.....	5
6. A Definition: What is Sustainability?.....	6
7. The Approach: Sustainable Beaverton Strategy.....	7
8. The Current State: Where is Beaverton today?.....	8
9. The Future State: Where does Beaverton want to be?.....	9
10. The Bridge to Sustainability: How will Beaverton fill the gaps?.....	10
11. Actions and Prioritization: How will Beaverton prioritize actions?	12
12. Tracking and Reporting: How will Beaverton ensure progress?	14
13. Conclusion	18
ACKNOWLEDGMENTS	19

FIGURES

Figure 1: Beaverton’s Early Actions Toward Sustainability	3
Figure 2: Beaverton’s Organizational Chart.....	5
Figure 3: Beaverton’s Natural Step Sustainability Principles (SP).....	6
Figure 4: Sustainability Planning Process.....	7
Figure 5: Approach to Develop the SBS—Supported by the Sustainability Division	7
Figure 6: How Actions Support Goals, Focus Areas, and Themes	10
Figure 7: Sustainability Focus Areas and Goals	11
Figure 8: How Suggested Actions will be Handled by the Sustainability Division	12
Figure 9: Beaverton’s Sustainability Lens for Selecting Actions.....	13
Figure 10: Sustainable Beaverton Strategy Report Card Sample	16
Figure 11: Roles and Responsibilities for Implementation of the SBS	17

APPENDICES

Appendix A: City Priorities

Appendix B: Sustainability Themes

Appendix C: Focus Areas

Appendix D: Sustainability Division’s Action Plan

Appendix E: Sustainable Beaverton Strategy Report Card

1. Introduction: Sustainable Beaverton Strategy

Under direction of Mayor Doyle, the city of Beaverton strives to be a progressive, sustainable city—a city that leads and a city to emulate.

Beaverton is achieving amazing results for a city of its size—but we could do even more. The city acknowledges that striving for a more sustainable approach is crucial for the health of our planet and community.

Operating our city with a balanced, sustainable approach has been a direct request by our community members. This means city staff must work together to find innovative solutions that balance our environment, economy, and the health of our community.

The Sustainable Beaverton Strategy (SBS) is a response to this request—it is a strategy to innovate city operations and services to include sustainability in our day to day decisions. Such strategies are expected by cities as a way to demonstrate a clear commitment and a path forward to achieve goals and report transparently to citizens.

This strategy establishes a clear, shared understanding of sustainability, a framework for collaboration between departments to accomplish goals, and an organized process for accountability. The success of SBS is contingent upon support from the Mayor, city council, department leaders, and city staff.

To facilitate progress forward, the SBS includes the creation of goals and actions that are the result of collaboration of over 40 staff members seeking to integrate sustainable actions into their work in Beaverton. It includes a filtering process that city leaders can use to integrate sustainability into city projects and goes beyond ‘business as usual’ to outline ambitious goals and a clear action plan for all staff.

The city’s progress toward these goals will be monitored and reported annually to the public to maintain transparency for our community. Although the Sustainability Division is responsible for leading, implementing, and monitoring sustainability-related actions throughout city operations and services, the real change comes from collaboration and commitment by all staff.

We welcome you to innovate and bring sustainable choices into the city of Beaverton’s operations and services.

"The Sustainable Beaverton Strategy outlines a path forward for our city's services and operations to seize the moment to create a better future for ourselves, our children, and generations still to come."

- Mayor Dennis Doyle

2. Why Sustainability Matters

On a planet that holds over seven billion people—predicted to exceed nine billion by 2050—there are bound to be social, environmental, and ecological impacts. Billions of these people are unable to meet their most basic human needs due to low income, unfair working conditions, lack of available resources, and many other barriers. Resources are disappearing and waste is being accumulated at an unprecedented rate. Pollution of the soil, water, and air is increasing at a systematic rate, while people continue to use natural resources such as water, forests, land, and minerals at a faster rate than the earth can regenerate. At the same time, the desire for economic growth, frequently coupled with environmental degradation, is thought to be at odds with sustainability.

The consequences of living beyond the planet's capacity are that resources are being exhausted, which ultimately leads to unforeseeable impacts for generations to come.

Unforeseen consequences pose an interesting question—what will the city of Beaverton do to protect its ecosystem, ensure equity amongst its population, and continue to support its economic stability? How will Beaverton rise to the challenge to lead and create a positive outcome for the city's future?

Beaverton has the choice to continue to do 'business as usual' or to adjust to positively impact our planet. Each city holds the unique responsibility to influence decisions that can be implemented now to greatly affect our future.

Beaverton chooses to be a leader and create positive changes to encourage sustainable decisions.

3. Early Actions Supporting Sustainability

In 2006, the city of Beaverton began with small steps to support the integration of sustainability into city activities. Beaverton’s commitment toward sustainability has grown steadily with an expanding city agenda led by the leadership of Mayor Doyle and the input of the community.

A Sustainability Division was created to facilitate the ongoing efforts and to embed sustainability elements into the core structure of the city.

In 2009, a full-time sustainability position was created in the Mayor’s office. In 2011, a Sustainability Division was formed within the Community Development Department (CDD). The Sustainability Division is charged with embedding sustainability elements into the core structure and services of the city, through this aspirational work plan.

FIGURE 1: BEAVERTON’S EARLY ACTIONS TOWARD SUSTAINABILITY



4. Beaverton's Profile and Future Growth

The city of Beaverton is Oregon's sixth largest city, with a population of approximately 91,000 people. Beaverton is a first-tier suburb city, positioned just west of the city of Portland, and is the second largest incorporated city in Washington County.

Beaverton experienced a growth rate of 18 percent from 2000 to 2010. If growth continues at this pace, there will be an additional 17,000 people and 3,500 housing units in the city by 2020. It is likely that Washington County, where Beaverton is located, will be larger than Portland's Multnomah County by 2050 (or sooner). It is important to not overlook this future growth when incorporating sustainability into the city's practices.

This strategy considers growth by encouraging policies and actions that include many future elements of health and equity, planning, transportation, land use, and green building practices.



2009

City hired a **sustainability coordinator**, at the request of staff and Mayor. Position served as conduit for sustainability actions, goals, and programs in the city.

City received \$914,000 in stimulus funds for **energy efficiency projects** from DOE.



2010

Beaverton **Community Vision** was developed.

Solar Beaverton pilot project launched.

City completed first **GHG inventory**.

City named a **"Smarter City"** by Natural Resources Defense Council.



2011

City-wide **Solar Beaverton** program influenced 258 residential solar system. City won **national recognition** from the National League of Cities.

City won **\$1 Million HUD Grant** - Sustainable Communities Challenge.

Sustainability Division was created.

City installed seven **Electric Vehicle charging stations**.



2012

A 17.6 kWh solar array installed on the city Library - the **largest solar installation** by the City.

City received **1st place for U.S. Mayors' Climate Protection Award** for small cities.

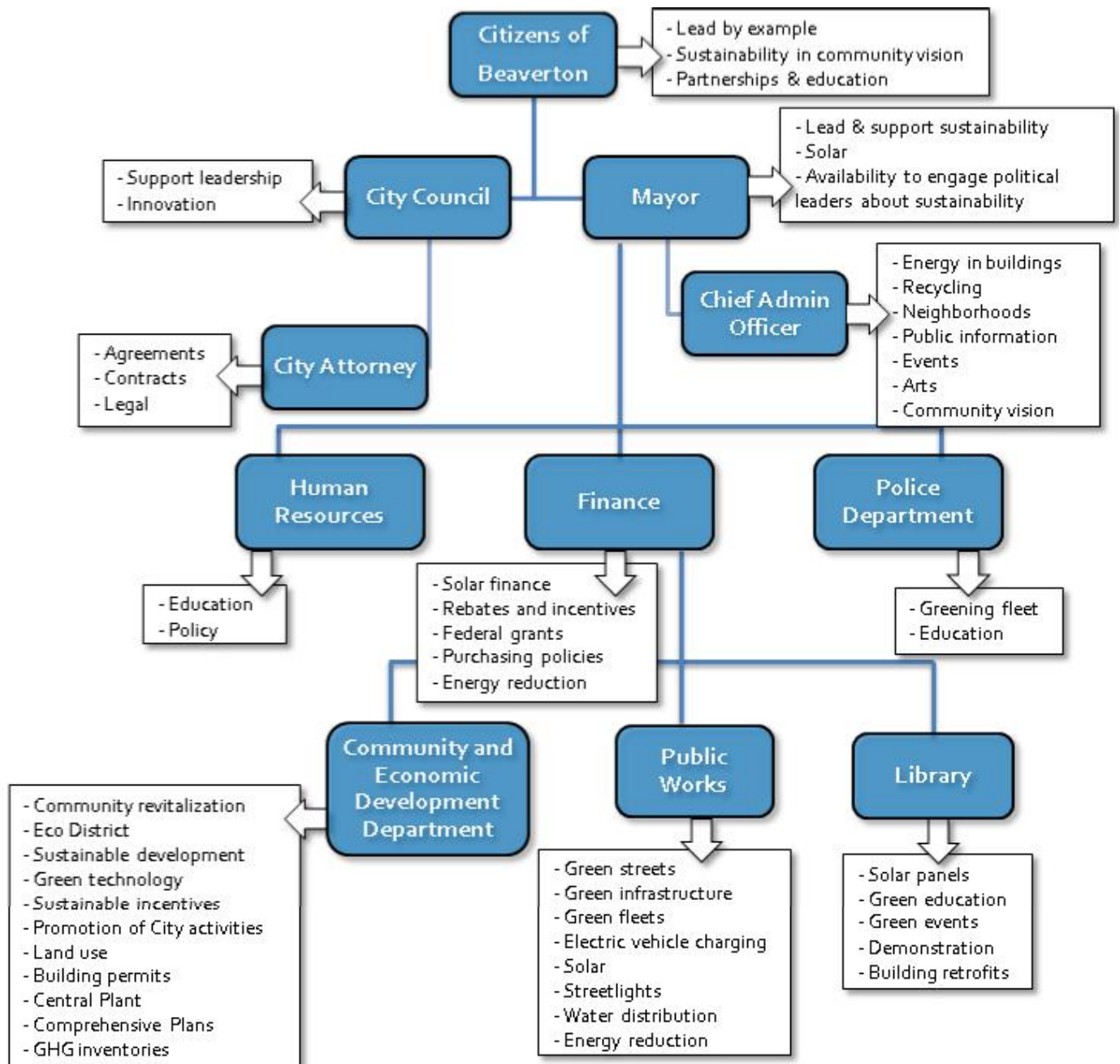
Sustainable Beaverton Strategy was developed to move city forward.

City won EPA's **Green Power Community** of the year award.

5. Organizational Chart

An understanding of the city's internal hierarchy was essential in the development of this strategy. The organizational chart below demonstrates the cross-departmental nature of sustainability efforts across the city. The chart shows how sustainability is interwoven throughout city departments and offers examples of activities implemented through the Sustainability Division.

FIGURE 2: BEAVERTON'S ORGANIZATIONAL CHART



6. A Definition: What is Sustainability?

Beaverton is clearly committed to sustainability, as shown through early actions and integration of sustainability throughout departments. However, to enable the city to move forward in a strategic fashion toward its goals, it is essential to establish a clear, shared definition of sustainability.

The term 'sustainability' has evolved over the decades, having different meanings to many people. A common language is necessary for a successful journey forward.

The city has chosen The Natural Step's definition for sustainability, shown below in Figure 3. This is a long-term approach to defining sustainability, which is based on an international scientific consensus on the conditions needed to sustain life.

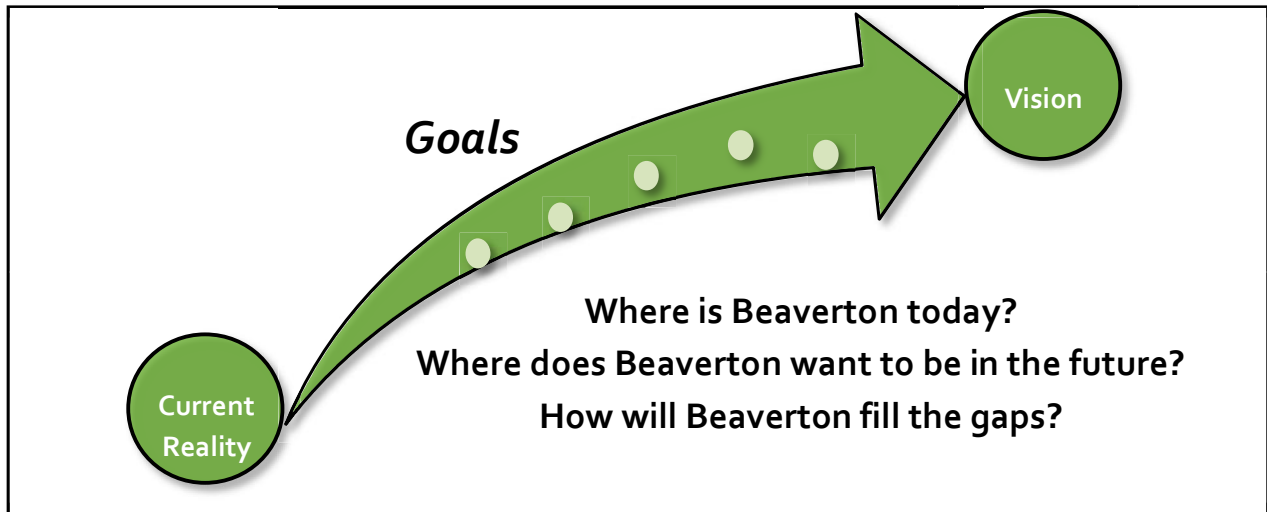
FIGURE 3: BEAVERTON'S NATURAL STEP SUSTAINABILITY PRINCIPLES (SP)

SP1.	Beaverton will strive to restore what it takes. Does the city's action reduce or eliminate use or buildup of substances extracted from the Earth's crust (i.e. heavy metals and fossil fuels)? Does the city's action increase efficiency, reliability, or connectivity in essential public infrastructure?	
SP2.	Beaverton will not make things that build up in the environment and harm nature or people. Does the city's action reduce or eliminate use or buildup of chemicals and compounds produced by society (i.e. dioxins, PCBs and DDT)? Does the city's action reduce the risk to human and environmental health from exposure to toxins?	
SP3.	Beaverton will strive to protect natural systems from degradation. Does the city's action reduce or eliminate contributions to progressive physical degradation and destruction of nature and natural processes (i.e. over-harvesting forests and paving over critical wildlife habitat)?	
SP4.	Beaverton aims to support people to meet their own needs. Does the city's action reduce or eliminate contributions to conditions that undermine peoples' capacity to meet their basic human needs (i.e. unsafe working conditions and not enough pay to live on)? Does the city's action involve citizens in decision making in a meaningful way?	

7. The Approach: Sustainable Beaverton Strategy

SBS was designed to take Beaverton from its current state to a desired future—a progressive, sustainable city. The following figure illustrates this process:

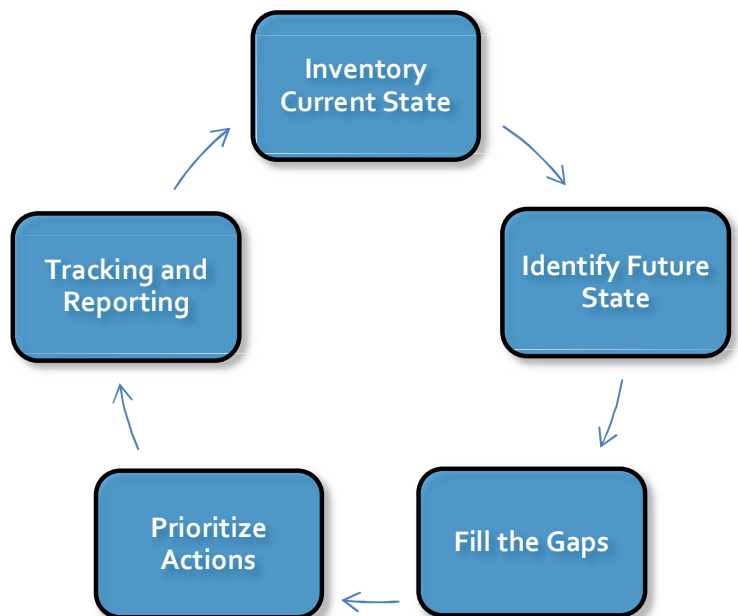
FIGURE 4: SUSTAINABILITY PLANNING PROCESS



SBS will guide city operations and services from the current approach to a strategic, prioritized action plan that is supported by measurable goals. Although this strategy was developed by the Sustainability Division, the responsibility to implement actions will be shared across departments. The Sustainability Division is responsible for tracking, reporting, and leading the city forward toward a more sustainable future. Subsequent sections of this report will clarify roles and levels of commitment needed from each department.

City staff inventoried the current state, identified the future state, filled the gaps existing between the current and future states, prioritized a list of actions, and created a tracking and reporting process (Figure 5). The following sections outline the methodology that the Sustainability Division used to create the SBS.

FIGURE 5: APPROACH TO DEVELOP THE SBS—SUPPORTED BY THE SUSTAINABILITY DIVISION



8. The Current State: Where is Beaverton today?

Before moving forward, it is necessary to understand the current state of the city—**Where is Beaverton today?**

A review of existing policy and guidance documents was completed to assess the current sustainability status. Sustainability actions and commitments were scattered throughout the city plans and policies. Upon review, it became clear that a set of existing values and priorities are in-place in Beaverton, but a cohesive strategy to reach these defined goals was not in place.

An inventory of the city's current reality showed a need for a cohesive strategy and goals that would guide Beaverton to become a progressive, sustainable city.

The following city of Beaverton documents were reviewed:

- Beaverton Community Vision
- Comprehensive Plan
- Civic Plan
 - Land Use and Transportation Strategy
 - Housing and Neighborhoods Strategy
 - Central City Strategy
- Transportation System Plan
- The Mayor's Vision and 10 Point Plan
- Beaverton's HUD Grant Application for a Creekside Master Plan
- EcoDistrict Plan
- City of Beaverton Strategic Plan
- U.S. Mayor's Climate Protection Agreement

The key areas that were repeated in many of Beaverton's city plans are:

Values: The city values, as defined in the city of Beaverton Strategic Plan, are: open and inclusive communication; collaborative teamwork and service; support planning, sustainability, and creativity; and work with integrity, accountability, and honesty. These values should be inherent in each action the city chooses to implement.

City Priorities: Overall, the city has undergone multiple planning and community engagement processes to understand the priorities that exist for the city's internal and external stakeholders. A review of existing documents revealed reoccurring focal points: **prosperity, livability, urban vitality, and health and wellness**. These priorities, defined in more detail in Appendix A, show a sense of direction for the community, but they do not provide specific guidance on how to reach measureable sustainability goals.

9. The Future State: Where does Beaverton want to be?

The inventory of Beaverton's current sustainability status clearly showed that the city has overarching priorities, however, important sustainability elements were missing.

First, a statement of sustainability was non-existent—**Where does Beaverton want to be in the future?** To create a roadmap toward sustainability, the city must first understand where it wants to go. The following is Beaverton's declaration of what it aspires to be in the sense of sustainability:

City of Beaverton's Sustainability Statement

Through our actions, the city of Beaverton strives to minimize its negative environmental, social, and economic impact by supporting **low-carbon economies and lifestyles, energy efficiency and security, health and well-being, and ecosystem stewardship**, while serving as a leader and community partner to meet the current and future needs of the city.

Second, a clear, concise definition of sustainability was necessary. The city has adopted The Natural Step's definition, as shown previously in Figure 3. In conjunction with this definition, the city recognizes that there are basic elements to consider both today and in the future. With this, the city has joined the Natural Step's definition with the Bruntland Commission's definition to move toward a place "that meets the needs of the present without compromising the ability of future generations to meet their own needs."

10. The Bridge to Sustainability: How will Beaverton fill the gaps?

The SBS establishes the following four **sustainability priority themes** to focus Beaverton's sustainability aspirations and provide clarity. Each future action that the city chooses to pursue will support one or more of these sustainability priority themes (See Appendix B):

- **low carbon economy and lifestyle**
- **energy efficiency and security**
- **health and well-being**
- **ecosystem stewardship**

*The SBS will take the city from random acts of sustainability dispersed throughout numerous plans to a **cohesive sustainability strategy** to move forward.*

In addition, **focus areas** were created to align a collection of existing and desired actions with the major themes of sustainability. These focus areas touch upon a wide range of efforts throughout the city and allow actions to be organized and tracked more efficiently (See Appendix C). The focus areas for Beaverton include:

- **greenhouse gas emissions**
- **energy**
- **waste**
- **water**
- **built environment**
- **urban nature**
- **healthy communities**

Goals were established by the Sustainability Division to bring the city closer toward its vision. These goals support the focus areas and each goal ultimately relates to one (or more) of the sustainability themes. Some SBS goals reflect existing state-wide goals or mandates, while others reflect existing declarations or aspirations to which the city has committed. Every effort was made to create quantitative goals for the SBS. Goals that are not quantitative will be measured to the best of the city's ability. Although these goals are long-term ambitions, they give the city a place to focus its attention and move beyond its business-as-usual scenarios. The goals also provide a clear target for reporting.

FIGURE 6: HOW ACTIONS SUPPORT GOALS, FOCUS AREAS, AND THEMES

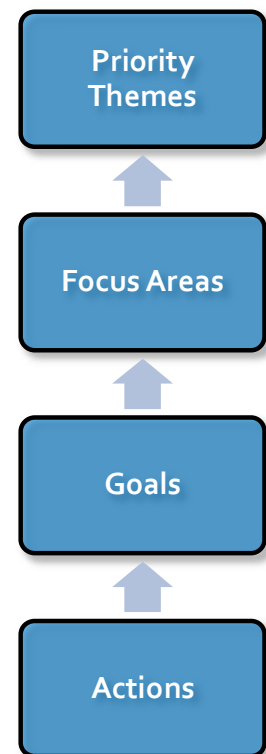
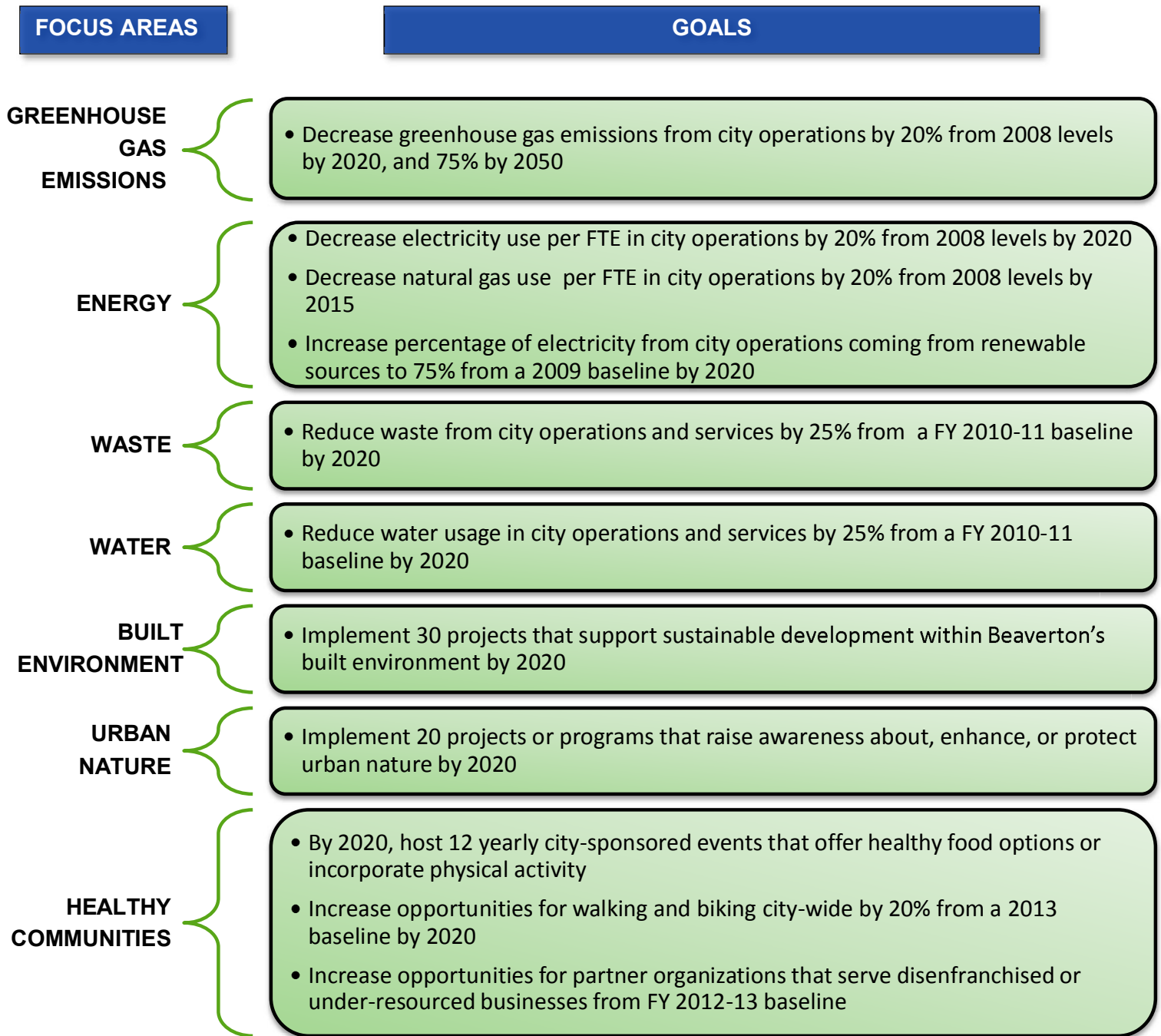


FIGURE 7: SUSTAINABILITY FOCUS AREAS AND GOALS



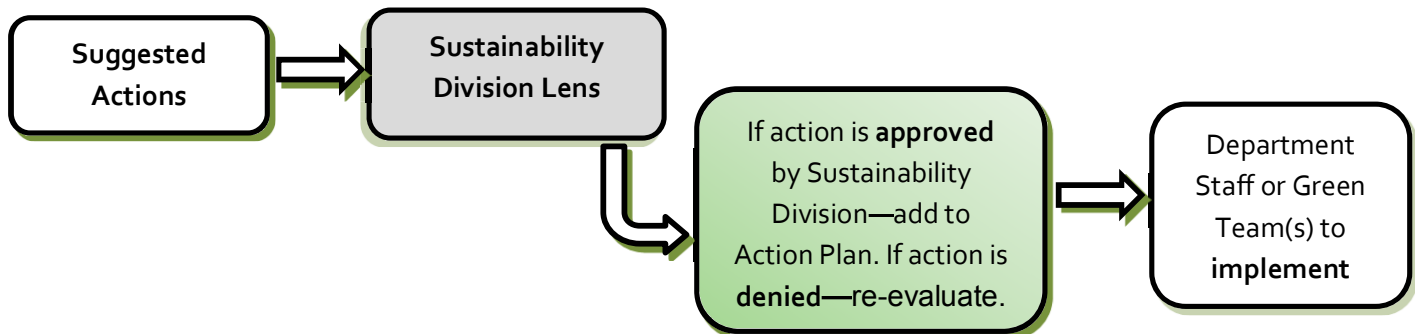
11. Actions and Prioritization: How will Beaverton prioritize actions?

With the goals defined, the next step was to identify a process for selecting and prioritizing actions to meet the goals. The actions identified came from multiple resources: internal staff, community visioning, prior commitments, basic sustainability expectations, external partners, and other sources. It is important that SBS prioritizes, monitors, and reports transparently to ensure the city's progress.

The purpose of filtering actions through the Sustainability Division is to maintain a comprehensive review, accountability, and reporting of the city's sustainability actions.

The Sustainability Division receives many requests to carry out sustainability actions. These requests originate from the public, universities, various agencies, elected officials, city leaders, and staff. The flow chart in Figure 8 below shows how suggested actions will be processed. Each action will be reviewed by the Sustainability Division. If the action meets the defined sustainability priorities (shown in Figure 9) and resources are available, it will be considered for addition to the Sustainability Division Work Plan (See Appendix D). Once an action is added to the sustainability work plan, each department involved will collaborate to determine how the action will be implemented, monitored, and reported upon.

FIGURE 8: HOW SUGGESTED ACTIONS WILL BE HANDLED BY THE SUSTAINABILITY DIVISION



The SBS is robust and aspirational. Actions listed in this strategy are not exclusive to the Sustainability Division—each department has a role in implementing the SBS. The purpose of filtering these actions through the Sustainability Division is to maintain a comprehensive review, accountability and consistent reporting of the city's sustainability actions and achievements.

To understand potential synergies, barriers, trade-offs, and other constraints or opportunities of proposed actions, Figure 9 on the next page offers a framework for evaluation. These questions should be asked by city leaders about programs or projects to enable understanding and integration of sustainability aspects into city operations and services.

FIGURE 9: BEAVERTON'S SUSTAINABILITY LENS FOR SELECTING ACTIONS

1

Does this action move Beaverton toward the City's Sustainability Statement?

*Through our actions, the city of Beaverton strives to minimize its negative environmental, social, and economic impact by supporting **low-carbon economies and lifestyles, energy efficiency and security, health and well-being, and ecosystem stewardship**, while serving as a leader and community partner to meet the current and future needs of the city.*

2

Is this action consistent with the Sustainability Principles (SP)?

SP1. What Beaverton takes is restored

Does this action reduce and ultimately eliminate our community's dependence on fossil fuels and wasteful use of scarce minerals, and use renewable resources whenever possible?

SP2. What Beaverton makes does not build up in and harm nature or people

Does this action reduce and ultimately eliminate our community's dependence upon persistent chemicals and wasteful use of synthetic substances? Does it use biologically safe products whenever possible?

SP3. Beaverton protects natural systems from degradation

Does this action reduce and ultimately eliminate our community's contribution to new encroachment upon nature, and protect natural, life-sustaining ecosystems?

SP4. Beaverton supports people to meet their own needs

Does this action reduce or eliminate conditions that systematically undermine people's capacity to meet their own needs?

3

Is the action a good investment (economic, social, and environmental) for the city?

- *Does the action reduce long-term operating and maintenance costs and what is the return on investment?*
- *What is the level of risk associated with taking the action (or not taking action)?*
- *Will the action promote resource sharing between another entity or leverage external funds?*

4

Is the action a proposed step on the path toward sustainability?

- *Is the action a first step in phasing in a more sustainable approach?*
- *Is the action flexible and adaptable to accommodate future innovation?*
- *Does the action involve a financial investment that locks the community into an unsustainable situation for many years?*

12. Tracking and Reporting: How will Beaverton ensure progress?

Ensuring Collaboration Across Departments

Integrating sustainability into city operations and services is a priority of the Mayor, and it is necessary to collaborate and share responsibility across all departments to ensure success. The success of the SBS is contingent upon collaboration and support from the Mayor, city Council, department leaders, and all staff. Such collaboration, around clearly defined goals, can help leverage grant funds, ensure consistent reporting to the public, and will allow the Sustainability Division to provide technical resources where appropriate.

Roles and Responsibilities

It is important to recognize that the roles and responsibilities defined below are based on today's conditions and will evolve over time. Figure 11 on the following page identifies some of the roles and responsibilities of employees throughout the city that will ensure the sustainability goals are achieved.

The **Mayor** will provide support and encourage collaboration among departments and ultimately approve the annual work plan that implements actions of city departments as well as the Sustainability Division.

The **City Council** ensures that projects/programs align with the sustainability lens and the funding is allocated appropriately. City Council also approves key contracts, policies, and plans.

The **Sustainability Division** is responsible for coordinating the implementation and monitoring of the actions within the work plan and reporting progress annually toward the goals. As much as possible, the Sustainability Division will offer other departments support in the form of research, staff time, coordination and general assistance to implement actions. The Sustainability Division is responsible for reporting progress to the Mayor.

An internal **Sustainability Review Committee**, reporting to the Mayor, will consist of upper management, including the Finance Director, CEDD Director, and Public Works Director. Their role will be to conduct an annual review of the work plan, to facilitate cross departmental collaboration and to ensure city-wide support for the sustainability goals.

Green Teams will consist of staff from each department and will be voluntary in nature. The green teams will be encouraged to conduct actions that support the goals approved by the Mayor. They will be formed with gentle nudging from the Sustainability Division, but the goal is that they will operate from a grassroots level, with regular

check in and will relay information back to their own department's staff. They will be monitored, but not facilitated, by the Sustainability Division staff.

City departments will work with the Sustainability Division annually to create a list of five main actions to support city goals. These may include actions such as: minimizing energy waste with our PC network, integrate sustainability into our standard RFP language, reduce plastic water bottle use in our facilities, double side copy all documents that we print, etc. These conversations are vital to engage staff at their level and allow them to offer suggestions that are implementable by staff.

City staff Support SBS through data collection and collaboration across departments, Implement actions that support sustainability goals, and offer ideas for sustainability actions.

Training

The Sustainability Division will conduct regular sustainability trainings for city staff and all new employees through new employee orientation. These trainings will include the basic principles of sustainability, why sustainability matters to Beaverton, and the role of staff in making a sustainable future a reality.

The Sustainability Division will attend department staff meetings to educate and create a shared and consistent understanding of sustainability. The meetings can also be used to help facilitate the creation of each department's key actions to reach the goals. Figure 11 on the next page lists the roles and responsibilities of key areas needed to implement this strategy.

Reporting

Tracking performance toward each goal is essential to show the success of the city's movement toward its sustainability goals.

SBS is a flexible and 'living' document with annual updates that require collaboration across departments to ensure consistency and transparency in reporting. City departments will be asked to report on the actions assigned to them, in conjunction with the annual budget cycle. As much as possible, the goals were developed to be specific, measureable, attainable, results oriented and time bound. Baselines and metrics have been identified for each goal to help the Sustainability Division measure progress toward meeting each goal.

FIGURE 10: SUSTAINABLE BEAVERTON STRATEGY REPORT CARD SAMPLE



Reporting will include measurement of the percent of change over the baseline for each goal and will enable the Sustainability Division to efficiently and effectively create transparent updates to share with the appropriate audience. Figure 10 shows an example of a Sustainable Beaverton Strategy Report Card that will be provided each year as an update to city leaders and the public (See Appendix E).

FIGURE 11: ROLES AND RESPONSIBILITIES FOR IMPLEMENTATION OF THE SBS

WHO	ROLES & RESPONSIBILITIES
Mayor	<ul style="list-style-type: none"> ▪ Approves SBS work plan annually ▪ Ensure accountability, leadership, and support of SBS ▪ Ensure collaboration amongst departments to achieve success ▪ Encourage staff to incorporate sustainability into daily work and celebrate their success ▪ Encourage committee and green team involvement
City Council	<ul style="list-style-type: none"> ▪ Ask staff how their projects/programs align with the sustainability lens and allocate money appropriately ▪ Ask if the city's sustainability lens has been used to filter for all projects ▪ Approve key contracts, policies, and plans
Sustainability Division	<ul style="list-style-type: none"> ▪ Support and guide the internal process to move the city toward its sustainability goals ▪ Prepare and facilitate sustainability trainings for city staff ▪ Assist in developing appropriate tracking and monitoring criteria for selected actions ▪ Provide regular updates to appropriate internal/external stakeholders ▪ Report progress on goals annually
Sustainability Review Committee	<ul style="list-style-type: none"> ▪ Conduct an annual review of work plan ▪ Facilitate cross departmental collaboration ▪ Ensure city-wide support for the sustainability goals
City Department Heads	<ul style="list-style-type: none"> ▪ Use the city's sustainability lens to gauge city projects ▪ Encourage staff to incorporate sustainability into daily work and celebrate their success ▪ Collaborate with the Sustainability Division to ensure actions align with sustainability ▪ Align budget with sustainability goals ▪ Coordinate with Sustainability Division and ensure proper tracking/monitoring of action ▪ Implement sustainability actions specific to department ▪ Encourage staff involvement
City Staff	<ul style="list-style-type: none"> ▪ Support SBS through data collection and collaboration across departments ▪ Implement actions that support sustainability goals ▪ Offer ideas for sustainability actions
Green Teams	<ul style="list-style-type: none"> ▪ Implement actions that support sustainability goals ▪ Support SBS through regular meetings with the Sustainability Division ▪ Communicate about sustainability with department staff ▪ Assist in reporting progress

13. Conclusion

To ensure Beaverton's best days are ahead, as a city, we must act responsibly. The city must take steps today that will make our future more secure and prosperous.

Through city operations and services, we are already doing great things to support and encourage sustainability. With this in mind, the SBS was developed to create a strategic path forward to reach Beaverton's sustainability goals. This strategy also:

- labels our actions and organizes them into a strategic process
- defines goals and responsibilities to monitor our progress
- outlines a path forward for city operations and services to seize the moment to create a better future for ourselves, our children, and generations still to come

SBS will be implemented by the Sustainability Division; however, cooperation and interaction across the city will be essential to its success. SBS will create a sustainability committee to oversee the Sustainability Division's priorities and will encourage staff green teams to implement actions that support sustainability goals.

SBS inventoried the current city priorities and commitments regarding sustainability; incorporated them into sustainability themes; and created a work plan with focus areas, goals, actions, and metrics to achieve the city's sustainability vision. SBS will include annual reporting in a transparent process that demonstrates accountability and responsibility for the city to reach its goals.

The four priority sustainability themes that the city of Beaverton's operations and services are focusing on are:

- **low carbon economy and lifestyle**
- **energy efficiency and security**
- **health and well-being**
- **ecosystem stewardship**

An annual work plan will be updated to represent the workflow of the Sustainability Division. The creation of a process to prioritize actions allows the Sustainability Division to focus on its established sustainability themes, keeping the city on target to integrate sustainability throughout the city.

Support by the Mayor, city council, upper management, and staff is vital to the successful implementation of this strategy as well as collaboration across city departments.

A separate community plan will be created in the future through a wide-reaching public involvement process to result in a community generated plan for the city's desired sustainable future.

ACKNOWLEDGMENTS

A special thank you to the following for their
input into this strategy:

Mayor Denny Doyle

Don Mazziotti

Cindy (Tatham) Dolezel

Cindy Sundborg

Stevie Freeman-Montes

Good Company

City Staff

For more information about **Sustainability** in the **City of Beaverton**,
please visit BeavertonOregon.gov/green or email green@BeavertonOregon.gov.

Appendix A: City Priorities

Overall, the city has undergone multiple planning and community engagement processes to understand the priorities that exist for the city's internal and external stakeholders. The review of existing documents revealed reoccurring focal points: **prosperity**, **livability**, **urban vitality**, and **health and wellness**. These priorities show a sense of direction for the community, but they do not provide specific guidance on how to reach measureable sustainability goals.

Prosperity

There is a clear desire for a robust local economy with certain manifestations: becoming an employment center, continuing to be *a place where people want to live*, and fostering the connections between a residential base and an employment base. There is a clear sense of the supporting systems necessary for a healthy economy and for livability. Prosperity is also associated with innovation, including the fostering and hosting of cutting-edge industries, such as clean tech firms, software developers, and green energy consultants.

Livability

There is no single metric of livability, but local efforts to define it repeatedly come back to the same ideas: attractive neighborhoods, housing options, and community resources that are accessible to everyone. Livability contributes to prosperity by *drawing in and retaining firms and workers*, but it is distinct from employment and innovation.

Urban Vitality

Just as it is important to take care of basic needs, a city needs a spark and it needs a core. Ideas of urban vitality continually surface in the City adopted plans and strategies: *a vibrant downtown* that is a destination, institutions of culture, and physical examples of beauty in the built environment. Urban vitality contributes to livability, but it is distinct from other infrastructure in daily life.

Equitable Access

A wide range of the City stakeholders have articulated a desire for *a just community*. They want jobs, not just economic activity. They want neighborhoods, not just home values. They want opportunity and quality of life for many, not just isolated examples of success for a few. This sense of fairness and access is related to prosperity and livability, but it is more specific. For example, it means that the available transportation and housing options work for different income levels and those community institutions are accessible—physically and financially—to all.

Appendix B:
Four Sustainability Themes



Low Carbon Economy and Lifestyle

Climate change is one of the preeminent challenges of our day. Done right, climate action provides economic opportunity and resilience, improves environmental performance, and protects vulnerable segments of society. At a regional level, it is a public policy priority for Metro and the State of Oregon¹. At a local level, reducing carbon emissions can create a clean economy, improved livability, and healthier people. Preparing for changes in climate means resilience in infrastructure: roads and storm drains that are prepared for heavy rains, parks and green space that can tolerate drought, buildings and a surrounding built environment that accommodate more variables in temperature from today.

Nearly half of the City of Beaverton's carbon footprint is made up of the consumption of goods, services, and construction materials—mainly fossil fuels. The City's *Greenhouse Gas Inventory of Local Government Operations for 2009* showed that approximately 42 percent of its total GHGs came from its supply chain (13,000 MT CO₂e). Strategies to implement climate actions need to be twofold: adopting new technologies and implementing renewable energy, and reducing our consumption of stuff that contributes to our carbon footprint.

Where we are: Climate change has previously been viewed as a state (or Federal) responsibility, so local action—other than pledges—has been rare. However, the City has rallied behind on-the-ground plans that change local infrastructure and daily life by advancing residential solar, laying the foundation for excellent bike and pedestrian infrastructure, and installing infrastructure for electric vehicles.

Where we should go: Climate change efforts can be held at any level—individual to state to global. Eventually, if not already, metropolitan areas will have substantial climate action responsibilities in Oregon. The City of Beaverton has an opportunity to continue pursuing a low-carbon economy and lifestyle through actions. The City's activities will be advanced by bringing new economic opportunities within the clean tech sector to residents. The actions within this theme and focus area include: performing an annual greenhouse gas inventory of operations (and periodic inventories for the community), collaborating with Metro on the Climate Smart Communities scenarios project, exploring how to reduce vehicle miles traveled by Beaverton's fleet, promoting alternative modes of transportation for City employees, and much more.

STRATEGY GOALS:

FOCUS AREA:
Greenhouse Gas
Emissions

- Decrease greenhouse gas emissions from city operations by 20% from 2008 levels by 2020
- Decrease greenhouse gas emissions from city operations by 75% from 2008 levels by 2050

¹ The Oregon Legislature passed HB 3543 in 2007 with specific GHG reduction goals for 2010, 2020, and 2050. The Department of Environmental Quality established GHG reporting regulations for Title V permit holders in 2008. In 2009 HB 2001, the Jobs and Transportation Act, was passed and Metro has been working on implementation as a Metropolitan Planning Commission.



Energy Efficiency and Security

The center of climate action is energy, but energy efficiency and security are economic themes as well. As the existing City-adopted plans and strategies look to reshape much of the built environment, next-generation energy must inform how we design, build and renovate buildings, design and build transportation infrastructure, and incentivize and facilitate alternative transportation modes. There is also a role for policy and the community in disseminating innovations in energy efficiency and fostering local energy production.

An energy-efficient, energy-secure and renewable-energy economy is a low-carbon economy, which will need both lenses—energy and carbon—to create the path forward.

Where we are: Energy has been inexpensive for the past several decades. Recently, prices have increased, which has led to the importance of energy reduction and security—both energy efficiency in buildings and transportation are understood as an important component.

Where we should go: The City has an opportunity to create a concentrated plan and strategy for managing its energy use and implementing efficiency measures for both internal and external actions. This includes a concentrated effort to consume less carbon-intense energy, ensure our existing buildings are efficient, and increase our renewable energy generation and purchase. These actions will help the City form resilient energy markets for the local economy. The actions within this theme and focus area will include continuing to explore efficiency and energy reduction measures for the Central Plant, creating and implementing an energy management plan for City operations, implementing a street light efficiency program, developing a plan to integrate hybrid and electric vehicles into the City fleet, and much more.

STRATEGY GOALS:

FOCUS AREA:
Energy

- Decrease electricity use in city operations by 20% from 2008 levels by 2020
- Decrease natural gas use in city operations by 20% from 2008 levels by 2020
- Increase the total purchase of renewable energy sources for city operations from 2009 levels to 75% by 2020



Health and Well-being

We face numerous recurring health costs and several on-going health crises as a society, and the municipal scale has several largely untapped prospects for action on health. Our chronic inactivity is often related to our transportation habits, which are in turn co-determined by our land use patterns and transportation systems. Active transportation modes—biking and walking—can provide pathways to health, while reducing reliance on petroleum resources beyond our borders. Neighborhoods designed around biking and walking are often, compared to auto-centric design, healthier and safer places. Although typically more expensive, these walkable/bikeable neighborhoods may be less expensive places to live when considering the full cost of transportation and the value of our health.

The Center for Neighborhood Technology (CNT) developed a map called H+T Affordability Index that looks at housing costs as well as transportation costs as a percentage of total household income. This index sheds light on the level of impact transportation choices can have on an individual's economic well-being².

Where we are: Health is rarely spoken of in public policy; typically, the focus is on “health care” or “health insurance”, so the public policy role exists above and outside of cities, with State and Federal authorities. However, it is increasingly understood that health is, to a large extent, about the way and the places in which we live.

Where we should go: The City has an opportunity to incorporate health and wellness aspects into City plans and policies to positively influence the way we live and the place we live. The actions within this theme and focus area include: conducting a city-wide inventory of community gardens, CSA's and farmers markets, increasing awareness and participation in the Beaverton Farmers Market, supporting a 'buy local' program, creating a sustainability walking tour/map, and much more.

STRATEGY GOALS:

FOCUS AREA:
Healthy
Communities

- Increase opportunity for active and healthy lifestyles through city operations and services from established 2011 levels
- Increase opportunities for walking and biking city-wide
- Support/increase the involvement of and number of MWESB opportunities by 20% from 2011 levels by 2020

² See the CNT map and zoom into the Portland-Vancouver region to see the City of Beaverton's data: <http://htaindex.cnt.org>



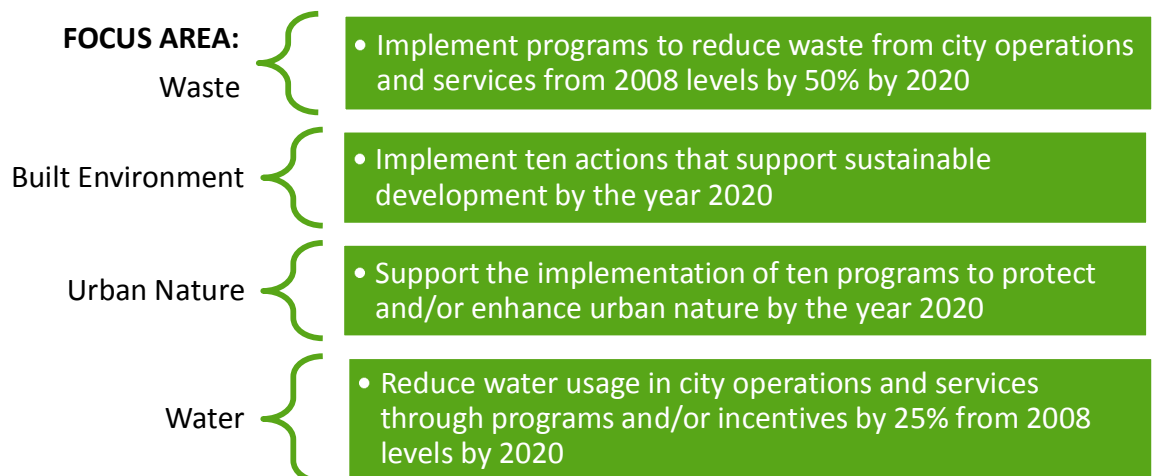
Ecosystem Stewardship

We are leaving behind the era of compliance, when environmental performance was about permitting, regulatory mandates, and thresholds of harm. We are entering an age of green infrastructure, natural systems as sources of value, and connections between local and global ecology. Several planning and regulatory requirements provide starting points: land use law and regional codes require some coordination of urban development for habitat and wetlands, to name a few. Yet larger issues loom on the horizon; for example, regional management of drinking water supply and opportunities for efficiency in local water demand.

As we see local ecosystems as providers of economically valuable services, we find that the ecosystems can be the lowest-cost ways of meeting certain needs: improving air quality, addressing storm water quantity and quality, improving drinking water quality, and reduced energy needs by mitigating the urban heat island effect, to name a few. An increasingly natural and beautiful *built environment* can provide ecosystem services required by law, but in ways that go beyond the law.

Where we are: Traditionally, environmental concerns about storm water, clean air, species preservation, and drinking water supply were handled by regulatory authorities. Furthermore, these regulatory mandates have focused narrowly on reducing harm, rather than on maximizing economic and social value from ecosystems.

Where we should go: The City has an opportunity to pursue environmental concerns coherently. The City can go beyond regulatory thresholds to a higher level of performance driven by value and opportunity, rather than mere compliance, which will reduce the regulatory burden imposed by multiple agency requirements. The actions within this theme and focus areas include: expanding on existing water conservation education programs, developing an internal Community Development Department (CDD) strategy to incorporate sustainability into the Comprehensive Plan, planting 200+ trees in City parks and rights-of-way, establishing Beaverton Creek as an urban amenity, and much more.



Appendix C:

Focus Areas

The efforts of the Sustainability Division will be directed at the following focus areas, which are in no priority or order:

- **Greenhouse Gas Emissions**
- **Energy**
- **Waste**
- **Water**
- **Built Environment**
- **Urban Nature**
- **Healthy Communities**

These areas are comprehensive and cover a wide range of sustainability issues within the City of Beaverton. The following pages lay out a brief description for each focus area and key successes to date.

In addition, goals are outlined to support each focus area. A baseline and metrics to achieve each goal have been selected when possible. The Sustainability Divisions Action Plan can be found in Appendix D, which will be updated annually as the work plan adjusts.

Focus Area: Greenhouse Gas Emissions

Climate Change is one of the preeminent challenges of our day, which is strongly linked to increased greenhouse gas emissions (GHGs). As GHGs rise, Beaverton will feel the impacts on many levels—volatile temperatures, increased pollution, depleted water resources, and challenges with food production, to name a few. Climate action is also a public policy priority for the region. For example, in 2007 the Oregon legislature passed HB 3543, which established state goals for GHG emissions reduction and adapting to climate change. HB 3543 goals include:

1. By 2010, arrest the growth of Oregon's greenhouse gas emissions and begin to reduce greenhouse gas emissions.
2. By 2020, achieve greenhouse gas levels that are 10 percent below 1990 levels.
3. By 2050, achieve greenhouse gas levels that are at least 75 percent below 1990 levels.

Additionally, the State Department of Environmental Quality adopted rules in 2008 that require entities with a Title V air pollution permit or an Air Contamination Discharge Permit to report GHGs from a single source of stationary fuels above 2,500 MT CO₂e.

The 2009 Jobs and Transportation Act (House Bill 2001) requires Metro, acting as the Metropolitan Planning Organization for the Portland metropolitan area, to plan for reductions in transportation-related carbon emissions through land use and transportation. The Act calls for local governments in the Portland metropolitan region to implement an adopted scenario. In 2011 the State of Oregon provided Metro with GHG reduction targets, asking the region to move from 4.05 MT CO₂e per capita to 1.2 MT CO₂e per capita in 2035. Metro is currently in phase 3 of the project, with plans to adopt a preferred scenario by Dec 2014.

Beaverton is striving to reduce GHGs and understand how they fit into these state and regional targets. The reduction of carbon emissions will lead to a more resilient economy, improved livability, and healthier people. Beaverton's strategy to reduce GHGs will encompass a wide range of actions; however, the key focus will be on (1) reducing consumption of 'stuff' that contributes to GHG emissions and (2) implementing renewable energy and new technologies to reduce GHG emissions.

Key Successes To Date

The city installed a 6,000 gallon fueling station for their fleet that includes 2,000 gallons of B20 biodiesel and 4,000 gallons of E-85 ethanol gas—both reduce harmful emissions.

There are 27 flex fuel vehicles on the city fleet to date. The vehicles are retained if they are in good condition and can run on flex fuel, even if it is overdue for replacement.

The city completed its first greenhouse gas inventories for both city operations and the community within Beaverton city limits.

Community
Vision

Central City
Strategy

Focus Area: Energy

Beaverton understands the importance of energy security and efficiency—a large number of current and planned actions have focused on this topic. The city strives toward providing safe, reliable, and affordable energy for the community and recognizes the impacts to the environment, society, and the economy.

The current adopted documents and plans look to reshape and improve much of the built environment, which means now is the time for innovative, next-generation ways of thinking to inform how we design, build and renovate buildings, transportation infrastructure, and incentivize and facilitate ‘green’ transportation modes in context of energy.

The city has implemented many actions related to energy. Currently, Beaverton purchases 100 percent renewable energy for electricity used in city buildings and generates 18,687 kWh/year of solar energy from our systems on the Library and Resource Center.

Energy actions are prioritized first by those that assist the city in consuming less energy, next with those that facilitate efficiency with the energy we do consume, and lastly with actions towards purchasing or generating renewable energy. Reducing consumption is a key goal due to depletion of resources, and it will lead to savings for residents, business, and government alike.

Key Successes To Date

Beaverton launched the city-wide Solar Beaverton program which installed 258 solar systems on homes in the community. This program created 12 local jobs, increased permit applications, and supported local solar manufacturers.

Beaverton committed to the Department of Energy’s Better Buildings Challenge to reduce energy intensity in owned facilities by 20% by 2020 and is reaching out to local businesses to partner in reaching this goal.

The city partnered with Livelight energy to install a solar demonstration gazebo that supplies electricity for nearby electric vehicle charging stations. This gazebo also serves as a community booth at the Beaverton Farmers Market.

ARRA funded projects - using funds from the Energy Efficiency and Conservation Block Grant (EECBG), the city installed over 330 induction and light emitting diode (LED) streetlights, completed weatherization loans for eight Beaverton homeowners, completed energy efficiency upgrades on five city buildings, and installed a 17.6 kW solar system on the city Library.

The City currently purchases 100% green power for the City Hall, Library, Community Center, Resource Center and Operations building.

Community
Vision

Central
City
Strategy

Focus Area: Waste

Waste prevention and recycling is directly linked to helping reduced climate change impacts, since trash trapped in landfills has long been known to increase amounts of GHG emissions.

Beaverton is responsible for facilitating key issues and providing many services to the public, including waste and recycling collection for its residents and businesses. Through these services, the city has involved itself in community engagement and communication about the basic principles of minimizing waste and reducing, reusing, and recycling. Ensuring these are visible at public events are key facets of engaging the community in waste education—whether it be having a compost bucket for food scraps at the farmers market or handing out reusable grocery bags. Beaverton must ensure its city-wide collection service is also efficient.

In addition to education and engagement of the community, Beaverton will also consider internal operations, including assets (buildings, office furniture and equipment, fleet), office supplies, and material use—each representing not only a large investment, but also potential waste. The city will work on ways to reduce, reuse, and recycle these material flows.

Additionally, the Sustainability Division envisions helping the Green Team in creating department specific plans for waste reduction that will range from reducing paper use to how to get rid of demolition materials. The Sustainability Division also plans to collaborate closely with the Solid Waste and Recycling Division to implement programs that decrease waste both within the community and city operations.

Key Successes To Date

The city has been recognized as a regional leader in adopting its recycling programs. For the 20 years prior to 2009, the waste recovery rate for the region has increased from 26% to 56%, which is 8% below the waste recovery rate goal of 64% for 2009 (established by Oregon State Legislature).

Community
Vision

Central
City
Strategy

Focus Area: Water

Around the world we are seeing changes in weather patterns—droughts, floods, pollution, to name a few. With an increasing population and these issues on the forefront, Beaverton can take early strides toward water conservation and efficiency programs to continue to have the ability to provide safe and reliable water to the community.

The primary source of Beaverton’s filtered drinking water is from the Joint Water Commission (JWC) water treatment plants, located south of Forest Grove. Other sources include the Tualatin Valley Water District, Raleigh Water District, and the West Slope Water District. Increasing demands will require the city to continue down the path of conservation and recycled water to meet the needs of today and future generations. This can be done through taking measures to reduce water use in buildings, landscape, and residential through policies, programs, and education.

Key Successes To Date

The city is a member of the Regional Water Providers Consortium, which provides a forum for collaboration on water supply issues and conducts activities that provide service to customers in and around the area. It offers extensive water conservation programs consisting of youth education, landscaping seminars and a yearly media campaign to promote wise water use.

Community
Vision

Strategic
Plan

Focus Area: Build Environment

Our understanding and stewardship of ecosystems are transitioning. We are leaving behind the era of compliance—when environmental performance was about permitting, regulatory mandates, and thresholds of harm. We are entering an age of green infrastructure—where natural systems are sources of value and connections between local and global ecology.

Existing planning and regulatory requirements provide starting points: land use law and regional codes require some coordination of urban development for habitat and wetlands, to name a few. However, as we learn to see local ecosystems as providers of economically valuable services, we increasingly find that the ecosystems can be the lowest-cost ways of meeting certain needs: improving air quality, addressing storm water quantity and quality, improving drinking water quality, and reduced energy needs by mitigating the urban heat island effect. An increasingly natural and beautiful *built environment* can provide ecosystem services required by law, but in ways that go beyond the law.

Beaverton has been working toward the development of the Creekside District Master Plan (Eco-District). This effort will link a number of strategic elements for the city connected to affordable housing, land use, transportation, energy, and ecosystem services provided by the built environment. Fully implemented, it will serve as an example of urban development in the central city that meets a wide range of sustainability goals and community priorities.

Key Successes To Date

The city has identified an area known as the Creekside District for development of its Eco-District, which will contain a number of components that, when fully integrated, will provide significant efficiencies and attractors for business, residents, and visitors.

Community
Vision

HUD Grant

Renewable
Mandate
(OR RPS)

EECBG
Stimulus
Funds

Housing &
Neighbor-
hood
Strategy

Focus Area: Urban Nature

Maintaining the quality of open spaces is extremely important to the citizens of Beaverton. Through partnership with Tualatin Hills Parks & Recreation District (THPRD), the community is treated to a bounty of natural and scenic views.

In order to preserve these areas for future generations to come, the city will need to consider impacts of all development on and around these areas.

Key Successes To Date

The City of Beaverton has received the Tree City USA award since 1994 for its valuable community forestry programs.

THPRD, in partnership with the city, offers more than 200 park sites, 60 miles of trails, and about 1,300 acres of natural areas.

Community
Vision

Land Use &
Transport.
Strategy

Housing &
Neighbor-
hood
Strategy

Focus Area: Healthy, Vibrant Community

We face numerous recurring health costs and several on-going health crises as a society, and the municipal scale has several largely untapped prospects for action on health. Our chronic inactivity is often related to our transportation habits, which are in turn co-determined by our land use patterns and transportation systems. Active transportation modes—biking and walking—can provide pathways to health, while reducing expensive reliance on energy sources beyond our borders. Neighborhoods designed around biking and walking are often, compared to auto-centric design, healthier, safer places with improved air quality.

Key Successes To Date

Beaverton Farmers Market attracts up to 20,000 visitors each week.

The THPRD provides year-round recreational and educational opportunities for people of all ages, including: a broad range of classes and more than 200 park sites, 60 miles of trails, eight swim centers, six recreation centers, and about 1,300 acres of natural areas.

Beaverton is committed to promoting sustainable and healthy living for all residents by making it more active, knowledgeable, and garden friendly. Through collaboration on projects with the Beaverton Farmers Market, Solid Waste and Recycling Division, local farmers, and community gardeners, the Sustainability Division aims to positively influence a healthy community.

Scientific studies show that chemical exposures can lead to or contribute to chronic disease. For this reason the Sustainability Division plans to build upon the momentum at the State level by implementing green chemistry principles and creating a toxic reduction strategy for the City.

Green chemistry is based on a philosophy of encouraging the design of products and processes to minimize the use and generation of toxic substances. Thoughtful application of a toxic reduction strategy in building materials, electronics, apparel, cleaning products, and more will foster a cleaner environment that will help all of the Beaverton community live healthy, productive lives, free of illness and disease.

Community
Vision

Land Use &
Transport.
Strategy

Housing &
Neighbor-
hood
Strategy

Appendix D:
Sustainability Division's Action Plan

Sustainable Beaverton Strategy- Action Plan

GREENHOUSE GAS EMISSIONS

G1		Decrease greenhouse gas emissions from City operations by 20% from 2008 baseline by 2020, and by 75% by 2050.										Baseline 2008: (Scope 1&2) 22.46 MTCO2e/FTE; (Scope 3) 37.94 MTCO2e/FTE		Goal 2020: (S1 & S2) 17.97 MTCO2e/FTE; (S3) 30.35 MTCO2e/FTE; Goal 2050: (S1 & S2) 5.61 MTCO2e/FTE; (S3) 9.48 MTCO2e/FTE		Committed to existing plans/policies		Community Vision		Mandate (State, Regional, Federal)		Not Started, Ongoing, 50%, Completed	
Metrics	G1. GHG emissions from Scope 1 & 2 per employee										Priority (High, Medium, Low)												
Sustainability Goals (G) and Actions (A)		Cost vs. Impact		Priority		Lead Staff		Division		Potential Partners		Timeframe		Description (one-time or on-going)		Already Budgeted (\$) (staff hours not included)		Budget Needed (\$) to Complete Action (staff hours not included)		Add'l info		Status	
Internal Operations (by Goal)																							
G1	A1	Conduct annual inventories of City facilities to determine emission sources	X				High	Cindy Dolezel	Sustainability	All City	0 - 1+ yrs.	Ongoing/ Annual	\$0	Staff hours	Staff hours	Y		Y				50%	
G1	A2	Consider satellite stations with local partners for work distribution efficiencies (Pilot Program)	X				High	Terry Priest	Public Works	Sustainability, Police	2 - 4 yrs.	One-time	Staff hours	Staff hours								Not Started	
G1	A3	Develop plan to improve City fleet through implementing efficiency measures and trainings	X				High	Mike Sterle	Public Works	Sustainability	2 - 4 yrs.	Ongoing	Staff hours	Staff hours								Not Started	
G1	A4	Reduce vehicle miles traveled in City fleet	X				High	Mike Sterle	Public Works	Sustainability	2 - 4 yrs.	Ongoing	Staff hours	Staff hours								Not Started	
G1	A5	Monitor and track fuel consumption in City fleet in order to set and achieve realistic reduction goals	X				High	Mike Sterle	Public Works	Sustainability	2 - 4 yrs.	Ongoing/ Annual	Staff hours	Staff hours								Not Started	
G1	A6	Create a sustainability purchasing policy for City operations	X				High	Terry Murali	Finance	Sustainability, Purchasing Managers throughout City	2 - 4 yrs.	One-time	Staff hours	Staff hours				Y				Not Started	
G1	A7	Continue Employee Commute Program to promote alternative modes of transportation for City staff, implement measure to reduce average trip distance, reduce vehicle miles traveled, carpooling, etc.		X			Medium/High	Todd Juhasz	Planning	Sustainability, WTA	0 - 1+ yrs.	On-going/ Annual	\$35,000	\$35,500	Y		Y					Ongoing	
G1	A8	Explore benefits to bring more hybrids and full electric vehicles into the City fleet (Vision Action #94)		X			Medium/High	Mike Sterle	Public Works	Sustainability	5 - 10+ yrs.	One-time	\$42,000	\$100,000		Y						Ongoing	
G1	A9	Convert garbage/recycling collection fleet to more environmentally friendly fuel options			X		Medium/High	Scott Keller	Recycling	Sustainability	2 - 4 yrs.	One-time	Staff hours	\$10,000	Y							Ongoing	
G1	A10	Adopt/develop consistent EV charging station signage across City			X		Medium/Low	Cindy Dolezel	Sustainability	Transportation, Public Works	2 - 4 yrs.	One-time	Staff hours	\$0								Not Started	

Sustainable Beaverton Strategy- Action Plan

GREENHOUSE GAS EMISSIONS

G1	A11	Educate staff to encourage EV development and use		X	Medium/Low	Cindy Dolezel	Sustainability	Public Works	2 - 4 yrs.	Ongoing	Staff hours	Staff hours						Not Started
G1	A12	Encourage staff to carpool to work and/or meetings when practical to reduce number of vehicle miles traveled (VMT)		X	Medium/Low	Todd Juhasz	Planning	Planning, Sustainability	0 - 1+ yrs.	Ongoing	Staff hours	Staff hours	Y					Ongoing
G1	A13	Encourage staff to consider location proximity for optimal time and fuel efficiency when commuting		X	Medium/Low	Todd Juhasz	Planning	Planning, Sustainability	0 - 1+ yrs.	Ongoing	Staff hours	Staff hours						Not Started
G1	A14	Add carpool spots to City facilities regularly (as demand grows)		X	Medium/Low	Todd Juhasz	Transportation, Public Works	Sustainability	0 - 1+ yrs.	Ongoing	Staff hours	Staff hours						Not Started
G1	A15	Create easy and consistent process of permitting for EV charging stations		X	Medium/Low	Cindy Dolezel	Sustainability	Building, Planning	2 - 4 yrs.	One-time	Staff hours	\$0	Y					Completed
City-Led Services and Commitments (by Goal)																		
G1	A16	Develop city-wide action plan to coordinate, track and report progress to reduce City's carbon footprint (Vision Action #94)	X		High	Stevie Freeman-Montes	Sustainability	PGE, Clean Water Services, Natural Step,	5 - 10+ yrs.	Ongoing	\$12,500	\$10,000		Y				Not Started
G1	A17	Meet requirements for Climate Smart Communities Scenarios (Metro)		Cost/Impact Unknown	High	Cindy Dolezel	Sustainability	Metro, City Departments, Planning	2 - 4 yrs.	Ongoing	Staff hours	\$15,000	Y		Y			Ongoing
G1	A18	Support EV related businesses and clean technology development (EV car charging stations, etc.) (Vision Action #65)	X		High	Cindy Dolezel	Sustainability	Public Works, Transportation	2 - 4 yrs.	Ongoing	Staff hours	\$5,000	Y	Y				Not Started
G1	A19	Implement the Transportation Plan: ensure an efficient transportation system that reduces the percentage of trips by single occupant vehicles, reduces the number of length of trips, limits congestion, and improves air quality for the City (Transportation Plan)	X	X	High	Todd Juhasz	Planning	Sustainability	2 - 4 yrs.	Ongoing	Staff hours	\$10,000	Y	Y	Y			Ongoing
G1	A20	Strengthen the incorporation of sustainability elements/principles into all City projects		X	Medium/High	Cindy Dolezel	Sustainability	CEDD, Transportation, Public Works	0 - 1+ yrs.	Ongoing	Staff hours	Staff hours	Y					Ongoing

Sustainable Beaverton Strategy- Action Plan

ENERGY

ENERGY																							
G2		Decrease electricity use per FTE in City operations by 20% from 2008 levels by 2020							Baseline 2008: 21,965 KWh/FTE		Goal 2015: 17,571 KWh/FTE			Committed to: existing plans/policies Community Vision Mandate (State, Regional, Federal)	Not Started, Ongoing, 50%, Completed								
G3		Decrease natural gas use per FTE in City operations by 20% from 2008 levels by 2015							Baseline 2008: 132.1 Therms/FTE		Goal 2015: 105.7 Therms/FTE												
G4		Increase percentage of electricity from city operations coming of renewable sources to 75% from a 2009 baseline by 2020							Baseline 2009: 56%		Goal 2020: 75%												
Metrics		G2. Total kWh all city accounts (PGE annual report) + Central Plant / FTE relative to 2008 levels		G3. Total natural gas consumption for City facilities per FTE relative to 2008 levels		G4. Percentage of renewable energy for City facilities that is purchased or generated relative to 2008 levels		Priority (High, Medium, Low)		(2012-2013)		(Future)											
Sustainability Goals (G) and Actions (A)		Cost vs. Impact		Priority		Lead Staff		Division		Potential Partners		Timeframe		Description (one-time or on-going)		Already Budgeted (\$)(staff hours not included)		Budget Needed (\$ to Complete Action (staff hours not included)		Add'l Info		Status	
Internal Operations (by Goal)																							
G2/3	A1	Create and implement an Energy Management Plan for City operations	X					High	Stevie Freeman-Montes	Sustainability	Facilities	2 - 4 yrs.	Ongoing/ Annual	Staff hours	Staff hours	Y							Not Started
G2/3	A2	Conduct a utility audit for City operations (gas and electric)	X					High	Cindy Dolezel	Sustainability	URS Consultants, Facilities, Finance	2 - 4 yrs.	One-time	\$0	\$6,000	Y							50%
G2/3	A3	Maintain EPA's Portfolio Manager Tool to track and monitor energy use for City operations	X					High	Stevie Freeman-Montes	Sustainability	EPA, DOE	0 - 1+ yrs.	Ongoing/ Annual	Staff hours	Staff hours	Y							Ongoing
G4	A4	Explore solar installations on City facilities where cost effective	X					High	Cindy Dolezel	Sustainability	Engineering, Facilities	2 - 4 yrs.	Ongoing	Staff hours	Staff hours								Ongoing
G4	A5	Assess renewable generation opportunities on City facilities	X					High	Cindy Dolezel	Sustainability	PGE, ETO	5 - 10+ yrs.	Ongoing	Staff hours	Staff hours								Ongoing
G2/3/4	A6	Provide energy education for City employees and at City events (when appropriate)	X					High	Cindy Dolezel	Sustainability	Facilities, HR, ETO, PGE	0 - 1 yrs.	TBD	Staff hours	Staff hours								Ongoing
G2	A7	Manage EECBG Stimulus Funds	X					High	Cindy Dolezel	Sustainability	Finance, DOE	0 - 1+ yrs.	Ongoing/ Annual	Staff hours	Staff hours	Y		Y					Completed
G2/3	A8	Complete an audit (retro-commissioning) of the Library to ensure proper and efficient use of energy - evaluate opportunities to reduce energy usage (pumping, HVAC, computers, lighting, etc.).	X					High	Cindy Dolezel	Sustainability	Library, ETO	0 - 1+ yrs.	One-time	Staff hours	Staff hours								Completed

Sustainable Beaverton Strategy- Action Plan

ENERGY

G2/3	A9	Ensure exterior doors and windows are left closed to enable the HVAC system to run efficiently	X			High	Pat VanOsdel	Facilities	Sustainability	0 - 1+ yrs.	Ongoing	Staff hours	Staff hours					Not Started
G2/3	A10	Create a upgrade/retrofit plan for City pumps when replacement is necessary	X			High	Dave Winship	Engineering Dept.	Sustainability	0 - 1+ yrs.	Ongoing	Staff hours	Staff hours					Ongoing
G2/3	A11	Continue to explore efficiency and energy reduction measures at the Central Plant		X		Medium/High	Cindy Dolezel	Sustainability	ABM Facilities, ICLEI	0 - 1+ yrs.	Ongoing/ Annual	Staff hours	Staff hours	Y				Ongoing
G2/3	A12	Develop tracking and internal monitoring system to measure energy use from City facilities: buildings (existing and retrofits), streetlights, water pumping, electric charging stations, and solar generation		X		Medium/High	Stevie Freeman-Montes	Sustainability	Facilities, North write, PGE, ETO	0 - 1+ yrs.	Ongoing/ Annual	\$8,000	\$6,000	Y				50%
G2/3	A13	Monitor and re-evaluate/replace HVAC systems		X		Medium/High	Pat VanOsdel	Facilities	Building, Sustainability, ETO	0 - 1+ yrs.	Ongoing/ Annual	\$100,000	\$100,000					Ongoing
G2/3	A14	Ensure all equipment is running efficiently as designed (i.e. boiler/chiller at Library, HVAC systems, etc.)		X		Medium/High	Pat VanOsdel	Facilities	Building, Sustainability	0 - 1+ yrs.	Ongoing/ Annual	\$34,000	\$0					Ongoing
G2	A15	Implement street light efficiency measures		X		Medium/High	Steve Brennan	Public Works	Sustainability	0 - 1+ yrs.	Ongoing			Y				Ongoing
G2	A16	Convert City fleet vehicle lights to LED		X		Medium/High	Mike Sterle	Public Works	Sustainability	0 - 1 yrs.	One-time	\$10,000	\$0					Ongoing
G4	A17	Install solar panels on reservoir (Sexton Mountain)		X		Medium/High	Dave Winship	Engineering Dept.	Sustainability	2 - 4 yrs.	One-time	\$5,000	\$5,000					50%
G2	A18	Implement and evaluate City owned pump efficiencies across City water distribution system		X		Medium/High	Dave Winship	Engineering Dept.	Sustainability	0 - 1+ yrs.	Ongoing	\$160,000	\$0					Not Started
G2/3	A19	Coordinate continued participation in DOE's Better Buildings Challenge and EPAs Battle of the Buildings (including reporting)			X	Medium/Low	Cindy Dolezel	Sustainability	DOE	0 - 1+ yrs.	Ongoing/ Annual	\$2,500	\$2,500	Y				Ongoing
G2	A20	Ensure employees turn off lights when vacating common work space such as conference rooms, storage rooms, etc.			X	Medium/Low	Stevie Freeman-Montes	Sustainability	Facilities	0 - 1+ yrs.	Ongoing	Staff hours	Staff hours					Not Started
G2	A21	Ensure employees shut down computers at the end of the day			X	Medium/Low	Stevie Freeman-Montes	Sustainability	Facilities	0 - 1+ yrs.	Ongoing	Staff hours	Staff hours					Not Started
G2	A22	Ensure employees turn off computer monitors and other electronic devices when not in use for 15 minutes or longer			X	Medium/Low	Stevie Freeman-Montes	Sustainability	Facilities	0 - 1+ yrs.	Ongoing	Staff hours	Staff hours					Not Started
City-Led Services and Commitments (by Goal)																		
G2	A23	Explore feasibility/implement the first locally-integrated smart utility grid in the nation (Vision Action #96)		X		Medium/High	Cindy Dolezel	Sustainability	PGE	5 - 10+ yrs.	One-time	\$0	\$500,000	Y	Y			Not Started

Sustainable Beaverton Strategy- Action Plan

WASTE																				
G5		Reduce waste from City operations by 50% from 2008 baseline by 2020							Baseline 2008: 5,253 yd ³		Goal 2020: 2,627 yd ³		Committed to: existing plans/policies		Community Vision		Mandate (State, Regional, Federal)		Not Started, Ongoing, 50%, Completed	
Metrics		G5 Percentage of waste sent to landfill including facility containers, street cans, park cans, park solar cans. Same data used for GHGI- see waste tracker spreadsheet and public cans data. G5. Percent of construction & demolition waste recovered from roll off containers. Add to other metric.							Low Cost/High Impact		High Cost/High Impact		Low Cost/Low Impact		High Cost/Low Impact		Priority (High, Medium, Low)			
Sustainability Goals (G) and Actions (A)		Cost vs. Impact Priority			Lead Staff	Division	Potential Partners	Timeframe	Description (one-time or on-going)	Already Budgeted (\$) (staff hours not included)	Budget Needed (\$) to Complete Action (staff hours not included)	Add'l Info	Status							
Internal Operations (by Goal)																				
G5	A1	Establish ways to communicate and educate internally about waste	X				High	Scott Keller	Recycling	Sustainability	0 - 1 yrs.	Ongoing	Staff hours	Staff hours	Y			Ongoing		
G5	A2	Develop a waste reduction plan for City operations, to include:	X				High	Scott Keller	Recycling	Sustainability	2 - 4 yrs.	One-time	\$0	Staff hours	Y			Not Started		
		Conduct a waste study to highlight highest impact for waste reduction						Scott Keller	Recycling	Sustainability	2 - 4 yrs.	One-time	\$0	Staff hours						
		Discourage plastic water bottle consumption						Scott Keller	Recycling	All City, Sustainability	2 - 4 yrs.	One-time	\$0	Staff hours				Not Started		
		Support paperless transformations throughout the City						Scott Keller	Recycling	All City, Sustainability	2 - 4 yrs.	One-time	\$0	Staff hours				Not Started		
		Encourage or limit the amount of printed material handed out (utilize online platforms, email, etc.)						Scott Keller	Recycling	All City, Sustainability	2 - 4 yrs.	One-time	\$0	Staff hours				Not Started		
		Support or encourage the use of durable dishware in department kitchens/break rooms						Scott Keller	Recycling	All City, Sustainability	2 - 4 yrs.	One-time	\$0	Staff hours				Not Started		
		Install electric hand-dryers in bathrooms - remove paper towels						Scott Keller	Recycling	Sustainability	2 - 4 yrs.	One-time	\$0	Staff hours				Not Started		
		Ensure rechargeable batteries are provided for battery-operated electronics						Scott Keller	Recycling	Sustainability	2 - 4 yrs.	One-time	\$0	Staff hours				Not Started		
G5	A3	Implement paperless admin services, billing, orders, etc.	X				High	ISD	ISD	Sustainability, Recycling	2 - 4 yrs.	Ongoing	Staff hours	Staff hours				Not Started		
G5	A4	Explore a centralized garbage system for City facilities			X		Medium/Low	Scott Keller	Recycling	Sustainability	2 - 4 yrs.	Ongoing	Staff hours	Staff hours				Ongoing		
G5	A5	Establish duplex printing as default setting on all City printers			X		Medium/Low	ISD	ISD	Sustainability	0 - 1 yrs.	One-time	Staff hours	Staff hours				Not Started		

Sustainable Beaverton Strategy- Action Plan

WASTE

City-Led Services and Commitments (by Goal)

G5	A6	Establish ways to communicate and educate the public about waste/sustainability	X				High	Cindy Dolezel	Sustainability	Recycling	0 - 1 yrs.	Ongoing	Staff hours	Staff hours				Ongoing
G5	A7	Continue to recycle 100% asphalt on City projects	X				High	Debbie Martisak	Public Works	Sustainability	0 - 1+ yrs.	Ongoing	Staff hours	Staff hours				Ongoing
G5	A8	Develop waste reduction plan for construction materials and City projects		X			Medium/High	Scott Keller, Debbie Martisak, Keith Stone	Recycling, Public Works	Sustainability	2 - 4 yrs.	One-time	Staff hours	\$10,000				Not Started
G5	A9	Establish a commercial compost program and composting rate baseline (Vision Action #97)		X			Medium/High	Scott Keller	Recycling	Sustainability	2 - 4 yrs.	One-time	\$35,000	\$10,000	Y	Y		Ongoing
G5	A10	Establish a residential compost program and composting rate baseline (Vision Action #97)		X			Medium/High	Scott Keller	Recycling	Sustainability	5 - 10+ yrs.	One-time	Staff hours	\$10,000	Y	Y		Ongoing
G5	A11	Expand curbside recycling and markets (Vision Action #97)		X			Medium/High	Scott Keller	Recycling	Sustainability	5 - 10+ yrs.	Ongoing	Staff hours	unknown		Y		Ongoing
G5	A12	Education to public (i.e. events - Recycling Day) about waste		X			Medium/High	Scott Keller	Recycling	Sustainability	0 - 1+ yrs.	Ongoing	\$15,000	\$15,000				Ongoing
G5	A13	Explore options to recycle plastic bags			X		Medium/Low	Scott Keller	Recycling	Sustainability	2 - 4 yrs.	One-time	Staff hours	\$10,000				Ongoing

Sustainable Beaverton Strategy- Action Plan

WATER																						
G6		Reduce water usage in City operations and services by 25% from FY2010-2011 levels by 2020					Baseline FY2010-2011: (Domestic) 13,088,068 gallons; (Irrigation) 14,594,841 gallons		Goal 2020: (Domestic) 9,816,051 gallons; (Irrigation) 10,946,130 gallons						Not Started, Ongoing, 50%, Completed							
Metrics		G7. Total gallons for domestic, irrigation, and flower basket watering					Low Cost/High Ir	High Cost/High Ir	Low Cost/Low Ir	High Cost/Low Ir	Priority (High, Medium, Low)		Already Budgeted (\$)	Budget Needed (\$)	Committed to existing plans/policies	Mandate (State, Regional, Federal)						
Sustainability Goals (G) and Actions (A)		Cost vs. Impact		Priority	Lead Staff	Division	Potential Partners	Timeframe	Description (one-time or on-going)	Already Budgeted (\$)	Budget Needed (\$)	Add'l Info	Status									
Internal Operations (by Goal)																						
G6	A1	Inventory water consumption for the City operations					X				High	Dave Winship/Sue Ann Koniak	Water Department	Finance, Sustainability	2 - 4 yrs.	One-time	\$0	Staff hours				Not Started
G6	A2	Continue to seek reductions in unaccounted water losses					X				High	Dave Winship	Water Department	Public Works, Sustainability, Finance	0 - 1+ yrs.	Ongoing	Staff hours	Staff hours				Ongoing
G6	A3	Analyze alternative recycling methods for reusable water (i.e. rain water harvesting, etc.) (Vision Action #98)					X				High	Dave Winship	Water Department	Sustainability	5 - 10+ yrs.	Ongoing	\$0	Staff hours		Y		Ongoing
City-Led Services and Commitments (by Goal)																						
G6	A4	Continue to evaluate water consumption for City water distribution services and water loss audits					X				High	Dave Winship/Koniak	Water Department	Finance, Sustainability	2 - 4 yrs.	One-time	\$0	Staff hours				Ongoing
G6	A5	Perform regular water loss audits of City system - account for all metered and unmetered City water					X				High	Dave Winship	Water Department	Public Works, Sustainability, Finance	0 - 1+ yrs.	Ongoing/ Annual	Staff hours	Staff hours				Ongoing
G6	A6	Integrate an asset management process for evaluating water pipe replacement as part of the CIP process (i.e. leaks, age, etc.)					X				High	GIS Manager/Dave Winship	GIS	Engineering, Sustainability	0 - 1+ yrs.	One-time	Staff hours	Staff hours				Not Started
G6	A7	Expand existing water use efficiency, conservation and education program to reduce the City's potable water usage per capita (or sq. foot)					X				Medium/High	Dave Winship/Brion Barnett	Water Department	Sustainability	2 - 4 yrs.	Ongoing	\$13,800	\$13,800				Ongoing
G6	A8	Collaborate with regional partners to implement cost-efficient water conservation projects and programs (Vision Action #98)					X				Medium/High	Dave Winship	Water Department	TVWD, PSWCC	2 - 4 yrs.	Ongoing	\$35,000	\$35,000		Y		Ongoing
G6	A9	Continue H2O conservation rebate program (clothes, dishes, and toilet)					X				Medium/High	Dave Winship	Water Department	Public Works, Sustainability, Finance	0 - 1+ yrs.	Ongoing/ Annual	\$12,000	\$12,000				Ongoing

Sustainable Beaverton Strategy- Action Plan

BUILT ENVIRONMENT

G7														Implement 30 projects that support sustainable development within Beaverton's built environment by 2020			Committed to: existing plans/policies	Community Vision	Mandate (State, Regional, Federal)	Not Started, Ongoing, 50%, Completed		
Metrics														G7 Count programs or projects that support Low Impact Development Approaches, Green Building concepts within city operations, Green Building incentives among private sector development, and/or Habitat Friendly Development Practices. Descriptions and details on each of these metrics to be found in Report Card_Sustainability Goal Graphs spreadsheet.		Low Cost/High Impact					High Cost/High Impact	Low Cost/Low Impact
Sustainability Goals (G) and Actions (A)				Cost vs. Impact Priority				Lead Staff	Division	Potential Partners	Timeframe	Description (one-time or on-going)	Already Budgeted (\$) (staff hours not included)	Budget Needed (\$) to Complete Action (staff hours not included)	Add'l Info	Status						
Internal Operations (by Goal)																						
G7	A1	Inventory curbs and sidewalks to asses LID potential	X				High	Debbie Martisak	Public Works	Transportation, GIS, Sustainability	2 - 4 yrs.	One-time	Staff hours	\$3,000		Not Started						
G7	A2	Update the Tree Standards Regulations to incorporate (or require) the use of native species and other sustainable practices	X				High	Pat Hoff	Public Works	CEDD, Sustainability	0 - 1 yrs.	One-time	Staff hours	Staff hours		Completed						
G7	A3	Develop internal CEDD strategy to incorporate sustainability in Comprehensive Plan	X				High	Barbara Fryer	CEDD	Sustainability	2 - 4 yrs.	One-time	Staff hours	Staff hours	Y	Not Started						
G7	A4	Develop internal CEDD strategy to incorporate additional sustainable development techniques and incentives in the City's Development Code	X				High	Barbara Fryer	CEDD	Sustainability	2 - 4 yrs.	One-time	Staff hours	Staff hours	Y	Not Started						
G7	A5	Update and move optional guideline 'Habitat Friendly Development Practices' from the City's Development Code to a city standard code	X				High	Barbara Fryer	CEDD	Sustainability	2 - 4 yrs.	One-time	Staff hours	Staff hours		Not Started						
G7	A6	Create a 'Fast Track Program' for permitting to incentivize low-impact development	X				High	Laura Kelly	CEDD	Sustainability	2 - 4 yrs.	One-time	Staff hours	Staff hours		Not Started						
G7	A7	Create a city requirement that all new/re-developed city owned buildings must meet specific sustainable building practices (above the mandated state codes). Encourage green roofs, rain gardens, energy efficiencies, etc.	X				High	Brad Roast	Building	CEDD, Sustainability	2 - 4 yrs.	One-time	Staff hours	Staff hours		Not Started						
G7	A8	Explore City Code changes to encourage/allow passive design approaches in downtown area	X				High	Leigh Crabtree	CEDD	Sustainability, Building	0 - 1+ yrs.	Ongoing	Staff hours	Staff hours		Ongoing						
G7	A9	Develop Beaverton Creekside Master Plan (HUD Grant)		X			Medium/High	Laura Kelly	CEDD	Sustainability	5 - 10+ yrs.	Ongoing	Staff hours	HUD \$	Y	Ongoing						

Sustainable Beaverton Strategy- Action Plan

BUILT ENVIRONMENT																
G7	A10	Work to research, strategically incorporate, and fund LID into street overlay projects throughout the City	X			Medium/High	Debbie Martisak	Public Works	Finance, Engineering, Sustainability	2 - 4 yrs.	Ongoing/ Annual	Staff hours	\$40,000			<i>Not Started</i>
G7	A11	Encourage/demonstrate environmental stewardship commitment in the downtown area by working with Main Street Program on historic preservation and sustainable business practices	X			Medium/High	Alma Flores	Economic Development	Sustainability , Recycling, CEDD	0 - 1+ yrs.	Ongoing	\$10,000	\$5,000			<i>Ongoing</i>
G7	A12	Develop "GREEN IT" program in downtown Beaverton	X			Medium/High	Alma Flores	Economic Development	Sustainability	2 - 4 yrs.	One-time	\$2,500	\$10,000			<i>Not Started</i>
G7	A13	Create a sustainability walking tour/map for the City to promote sustainable development		X		Medium/Low	Stevie Freeman-Montes	Sustainability	CEDD, Economic Development	0 - 1 yrs.	One-time	\$5,000	\$2,000	Y		<i>Completed</i>
G7	A14	Implement small green projects in Creekside District - charging stations, solar, park, signage, gardens, etc.		X		Medium/Low	Cindy Dolezel	Sustainability	CEDD	5 - 10+ yrs.	One-time	\$2,500	\$0			<i>Not Started</i>
G7	A15	Explore Eco-industrial districts		X		Medium/Low	Alma Flores	Economic Development	Sustainability	5 - 10+ yrs.	Ongoing	\$2,500	\$5,000			<i>Ongoing</i>
City-Led Services and Commitments (by Goal)																
G7	A16	Educate and provide resources to the public about opportunities for sustainable development (i.e. rain water reclamation allowed through city code, energy efficiencies, building materials, etc.)	X			High	Brad Roast	Building	CEDD, Sustainability, ETO, State, Regional, and Federal (resources)	2 - 4 yrs.	One-time	Staff hours	Staff hours			<i>Not Started</i>
G7	A17	Promote and create incentives for the use of emergent building technologies, practices and green materials through educational events, demonstration projects and rebate programs (Vision Action #95)	X			High	Brad Roast	Building / CEDD	PGE, Facilities, Sustainability, Finance	2 - 4 yrs.	Ongoing	Staff hours	Staff hours	Y		<i>Not Started</i>
G7	A18	Provide education about additional standards (beyond state required - "Reach Standard/Code") to interested parties		X		Medium/Low	Brad Roast	Building	CEDD, Sustainability	2 - 4 yrs.	Ongoing	Staff hours	Staff hours		Y	<i>Not Started</i>
G7	A19	Promote sustainability demonstration projects throughout the City (Vision Action #95)		X		Low	Cindy Dolezel	Sustainability	CEDD	0 - 1+ yrs.	Ongoing	\$15,000	\$15,000	Y		<i>Ongoing</i>

Sustainable Beaverton Strategy- Action Plan

URBAN NATURE

URBAN NATURE																													
G8 Implement 20 projects or programs that protect, enhance, or raise awareness about urban nature by 2020																													
Metrics																													
G8 Count programs that raise awareness about natives and/or the urban forest, support the planting of native trees or shrubs, preserve acres, or increase the tree canopy within city limits. More detail on these metrics can be found in the Report Card_Sustainability Goal Graphs spreadsheet																													
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Internal Operations (by Goal)																													
G8	A1	Create a plan to reduce the use of pesticides, herbicides and fertilizers on City's vegetation maintenance	X				High	Steve Brennen	Public Works	Sustainability	2 - 4 yrs.	One-time	Staff hours	Staff hours				Not Started											
G8	A2	Integrate native tree species and vegetation into City's street trees list	X				High	Pat Hoff / Leigh Crabtree	Public Works	Sustainability, CEDD, Metro	0 - 1 yrs.	One-time	Staff hours	Staff hours				Completed											
G8	A3	Use City Hall (and other City-owned buildings) to show support and demonstration projects for use of native plants		X			Medium/High	Pat Hoff	Public Works	Sustainability, CEDD, Metro	2 - 4 yrs.	Ongoing	Staff hours	Staff hours				Not Started											
City-Led Services and Commitments (by Goal)																													
G8	A4	Plant 250 trees and native vegetation in City parks and right-of-way annually	X				High	Pat Hoff	Public Works	Sustainability	0 - 1+ yrs.	Ongoing/Annual	Staff hours	Staff hours				Ongoing											
G8	A5	Hold regular community clean-up days involving public and private sponsors	X				High	Pat Hoff	Public Works	City volunteers, local businesses, Mayors, Recycling	0 - 1+ yrs.	Ongoing/Annual	Staff hours	Staff hours				Ongoing											
G8	A6	Walk entire creek system and assess for future projects (i.e. Hall Creek Restoration Project)	X				High	Debbie Martisak	Public Works	Sustainability, Engineering	2 - 4 yrs.	One-time	Staff hours	Staff hours				Not Started											
G8	A7	Establish demonstration rain gardens, swales, etc. on Main Street		X			Medium/High	Pat Hoff / Mel Schultz	Public Works	Sustainability, CEDD	2 - 4 yrs.	Ongoing	Staff hours	Staff hours		Y		Ongoing											
G8	A8	Encourage a vibrant urban forest by expanding the volume and variety of trees planted City-wide (Vision Action #113)		X			Medium/High	Pat Hoff / Mel Schultz	Public Works	Sustainability, CEDD	2 - 4 yrs.	Ongoing	\$28,000	\$20,000		Y		Ongoing											
G8	A9	Use native plant and tree species in beautification efforts, and provide interpretive signage to educate the benefits of native plants (Vision Action #114)		X			Medium/High	Pat Hoff / Mel Schultz	Public Works	Sustainability	2 - 4 yrs.	Ongoing	(See G9 A3)	\$20,000		Y		Ongoing											
G8	A10	Create an open-space and natural area preservation program to fund protection and enhancement of critical habitat areas (Vision Action #99)		X			Medium/High	Mel Schultz	Public Works	Friends of Trees, City Volunteers, Sustainability	2 - 4 yrs.	One-time	(See G9 A3)	\$20,000		Y		Not Started											

Sustainable Beaverton Strategy- Action Plan

URBAN NATURE

G8	A11	Incorporate green approaches when redeveloping City streetscapes where the water table and soils allow (Vision Action #44)	X		Medium/High	Debbie Martisak	Public Works	Sustainability, Engineering	0 - 1+ yrs.	Ongoing	Staff hours	unknown		Y		Ongoing
G8	A12	Establish Beaverton Creek as an urban amenity that provide waterway views, walking trails and important habitat in downtown area (Vision Action #101)	X		Medium/High	Leigh Crabtree	CEDD	Public Works, Sustainability	5 - 10+ yrs.	One-time	HUD \$	Continued funding needed (unknown)		Y		Ongoing

Sustainable Beaverton Strategy- Action Plan

HEALTHY, VIBRANT COMMUNITIES

HEALTHY, VIBRANT COMMUNITIES																																																																																																																																																																																							
Sustainability Goals (G) and Actions (A)	Cost vs. Impact	Priority	Lead Staff	Division	Potential Partners	Timeframe	Description (one-time or on-going)	Budget		Addtl Info	Status	Mandate (State, Regional, Federal)	Notes																																																																																																																																																																										
								(2012-2013)	(Future)																																																																																																																																																																														
G9	By 2020, host 12 yearly city-sponsored events that offer healthy food or incorporate physical activity						G9 Baseline: 8 annual events	Goal 2020: 12 annual events.																																																																																																																																																																															
G10	Increase opportunities for walking and biking city-wide 20% from a 2013 baseline by 2020						Baseline 2013: Sidewalks- 430 miles Bike Langes- 96 miles Trails- 47 miles	Goal 2020: Sidewalks- 516 miles Bike Lanes 115 miles Trails 56 miles																																																																																																																																																																															
G11	Increase opportunities for partner organizations that serve disenfranchised or under-resources business from a FY 12-13 baseline* (* this goal does not have a quantitative component because it is contingent on federal funding and program resources)						Baseline 2013: 81 (see detail in Report Card goal graphs)	Goal: Increase						Not Started, Ongoing, 50%, Completed																																																																																																																																																																									
Metrics	G9. Number of city activities that incorporate physical activity or healthy food																																																																																																																																																																																						
	G10. Miles of sidewalks, bike lanes, and trails within City limits																																																																																																																																																																																						
	G11 Number of residents served by partner organizations that serve disenfranchised businesses																																																																																																																																																																																						
	G11. Number of clients referred by the City of Beaverton to partner organizations that serve disenfranchised businesses																																																																																																																																																																																						
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Sustainable Beaverton Strategy- Action Plan

HEALTHY, VIBRANT COMMUNITIES

G9	A9	Promote Beaverton Farmers Market (Vision Action #35)	X			High	Cindy Dolezel	Sustainability	Mayor	0 - 1+ yrs.	Ongoing	Staff hours	Staff hours		Y		Ongoing
G9/G10	A10	Encourage sustainability/physical activities and engagement - aimed toward children - at City events	X			High	Cindy Dolezel	Sustainability	Mayors, NACs	0 - 1+ yrs.	Ongoing	Staff hours	Staff hours		Y		Not Started
	A11	Explore ways to donate healthy food to poor, homeless, etc. communities	X			High	Cindy Dolezel	Sustainability	Mayors, Farmers Market, Food Bank, etc.	0 - 1+ yrs.	Ongoing	Staff hours	Staff hours		Y		Ongoing
	A12	Create sustainability signage for City events	X			High	Stevie Freeman-Montes	Sustainability	Recycling, Mayors	0 - 1+ yrs.	Ongoing	Staff hours	\$500				Not Started
G10/11	A13	Work with BCCI and NACs to educate about sustainability topics	X			High	Cindy Dolezel	Sustainability	Neighborhood, Mayors, BCCI, NACs	0 - 1+ yrs.	Ongoing	Staff hours	Staff hours				Ongoing
	A14	Research and implement food donations opportunities post City events	X			High	Erin Moran	Mayors	Recycling, Mayors	0 - 1+ yrs.	Ongoing	Staff hours	Staff hours				Ongoing
G11	A15	Continue to explore resources to support homelessness and low-income populations	X			High	Lani Parr	Neighborhood, Mayors	Sustainability	0 - 1+ yrs.	Ongoing	\$0	Staff hours				Ongoing
	A16	Use existing relationships/resources to create and facilitate "how to" classes focusing on sustainability topics throughout the City (Vision Action #94)	X			Medium/High	Cindy Dolezel	Sustainability	Mayor	2 - 4 yrs.	Ongoing	unknown	Staff hours				Not Started
G9	A17	Explore/purchase organic, local food options for City events	X			Medium/High	Victor Sin	Mayors	Sustainability, NACs	0 - 1+ yrs.	Ongoing	Staff hours	unknown	Y	Y		Not Started
G10	A18	Continue efforts with Employee Commute Program	X			Medium/High	Todd Juhasz	Transportation	Sustainability	0 - 1+ yrs.	Ongoing	See G1 A5	See G1 A5				Ongoing
G11	A19	Implement a procurement plan to open contracting opportunities and ease access for MWESBs	X			Medium/High	Alma Flores	Economic Development	Finance, Sustainability	2 - 4 yrs.	Ongoing	unknown	unknown				Not Started
G9	A20	Expand community gardens through partnerships (Vision Action #103)	X			Medium/High	Scott Keller	Recycling	Sustainability, THPRD, local business	5 - 10+ yrs.	Ongoing/ Annual	\$5,000	\$35,000		Y		Not Started
	A21	Continue the Drug Turn-in Program for citizens	X			Medium/High	Geoff Spalding	Police		0 - 1+ yrs.	Ongoing	Staff hours	Staff hours		Y		Ongoing
G11	A22	Build a healthy, engaged community through grant funds for neighborhood-focused projects	X			Medium/High	Lani Parr	Neighborhood, Mayors	Sustainability	0 - 1+ yrs.	Ongoing	\$10,000	Staff hours				Ongoing
	A23	Continue support of Beaverton Cares to continue fresh local food distribution programs	X			Medium/High	Lani Parr	Neighborhood, Mayors	Sustainability	0 - 1+ yrs.	Ongoing	\$0	\$10,000				Ongoing
	A24	Assist and support local community volunteers that complete tax returns to maximize refunds, especially through the earned income tax credit	X			Medium/High	Lani Parr	Neighborhood, Mayors	Sustainability	0 - 1+ yrs.	Ongoing	\$20,000	\$20,000				Ongoing
G9	A25	Support local partners to increase awareness and participation in the local farmers market and community gardens		X		Medium/Low	Cindy Dolezel	Sustainability	Ginger (Farmers Market), CSA	0 - 1+ yrs.	Ongoing	Staff hours	Staff hours		Y		Not Started
G10	A26	Create a sustainability walking tour/map (partner with Public Works and Economic Development for existing maps - i.e. Three Creek Confluence Map)		X		Medium/Low	Cindy Dolezel	Sustainability	CEDD, EconDev, Public Works	0 - 1 yrs.	One-time	See G8 A1	See G8 A1		Y	Y	Completed
G9	A27	Create education materials about healthy, affordable food options		X		Medium/Low	Stevie Freeman-Montes	Sustainability	Recycling, Mayors	0 - 1+ yrs.	One-time	Staff hours	Staff hours				Not Started
	A28	Continue support of processes that encourage community feedback and engagement		X		Medium/Low	Lani Parr	Neighborhood, Mayors	Sustainability	0 - 1+ yrs.	Ongoing	Staff hours	Staff hours				Ongoing

Sustainable Beaverton Strategy- Action Plan

MISCELLANEOUS (WORK TEAMS, EVENTS, MARKETING, GRANTS, OUTREACH, ETC)

Miscellaneous actions that support sustainability

Sustainability Goals (G) and Actions (A)		Priority	Lead Staff	Division	Potential Partners	Timeframe	Description (one-time or on-going)
A1	Search and complete grants as they arise	High	Cindy Tatham	Sustainability	All City	0 - 1 yrs.	TBD
A2	Begin community engagement (July 1st) in preparation for a community sustainability plan		Sustainability Coord	Sustainability	All City	0 - 1 yrs.	TBD
A3	Initiate an internal review committee to review plan and guide city activities through various departments		Cindy Tatham	Sustainability	All City	0 - 1 yrs.	TBD
A4	Train staff about sustainability - form Green Team at training		Sustainability Coord	Sustainability	All City	0 - 1 yrs.	TBD
A5	Initiate and support an internal green team		Sustainability Coord	Sustainability	All City	0 - 1 yrs.	TBD
A6	Create an internal sustainability grant process		Cindy Tatham	Sustainability	All City	0 - 1 yrs.	
A7	Continue participation in regional workgroups: Public Service Sustainability Coordinators and the PSWCC		Cindy Tatham	Sustainability	---	0 - 1+ yrs.	TBD
A8	Continue to explore partnerships in the community with businesses and residents.		Cindy Tatham	Sustainability	Economic Development	0 - 1+ yrs.	TBD
A9	Website and Public Outreach (contribute to Your City, public events and support programs, create a green message in city publications)		Cindy Tatham	Sustainability	ISD	0 - 1+ yrs.	TBD
A10	Market City Sustainability efforts and answer public inquiries - Your City, Blog, Facebook, Twitter, Public Outreach etc.		Cindy Tatham	Sustainability	Mayor	0 - 1+ yrs.	TBD
Coordinate Sustainability Events							
A11	Living Greener Summit - Work with Neighborhood team to set up event and secure vendors.		Scott Keller	Recycling	Sustainability	0 - 1+ yrs.	TBD

Appendix E:
Sustainability Report Card

SUSTAINABILITY PROGRESS REPORT



2013 Reporting on the Sustainable Beaverton Strategy

This annual progress report, compiled by the Sustainability Division, identifies the status towards the goals and actions defined in the 15+ year Sustainable Beaverton Strategy. This strategy contains 11 smart goals leading to 111 implementable actions for integrating sustainability into the operations and services provided by the city of Beaverton.

81%

of our 11 Sustainability Goals are ahead of schedule or on track

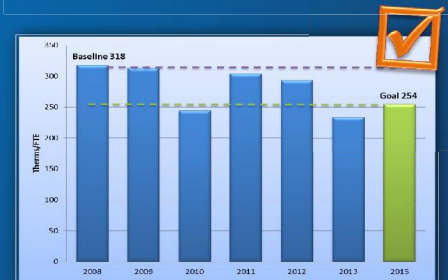
Goal 1: Decrease greenhouse gas emissions from city operations by 20% from a 2008 baseline by 2020



Goal 2: Decrease electricity use per FTE in city operations by 20% from a 2008 baseline by 2020



Goal 3: Decrease natural gas use per FTE in city operations by 20% from a 2008 baseline by 2015





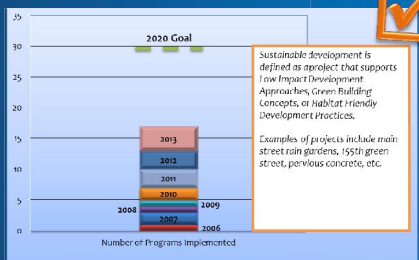
Goal 4: Increase percentage of electricity from city operations coming from renewable sources to 75% from a 2009 baseline by 2020



Goal 5: Reduce waste from city operations by 50% from a 2008 baseline by 2020



Goal 6: Reduce water usage in city operations and services by 25% from a FY 2010-11 baseline by 2020



Goal 7: Implement 30 projects that support sustainable development within Beaverton's built environment by 2020



Goal 8: Implement 20 projects or programs that protect, enhance, or raise awareness about urban nature by 2020

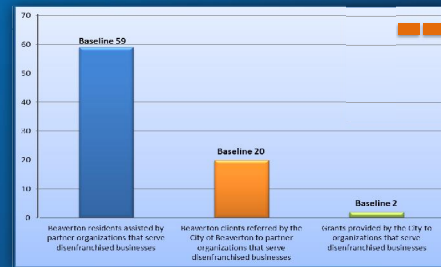


Goal 9: By 2020, host 12 yearly city-sponsored events that offer healthy food or incorporate physical activity

- Complete or Ahead of Schedule
- On Track
- Just Starting or Moving Slowly



Goal 10: Increase opportunities for walking and biking city-wide 20% from a 2013 baseline by 2020



Goal 11: Increase opportunities for partner organizations that serve disenfranchised or under-resourced businesses from a FY 12-13 baseline*

* This goal does not have a quantitative goal because it is very contingent on federal funding and program resources.

Sustainable Beaverton Strategy

Innovating Together for a Better City

"The Sustainable Beaverton Strategy outlines a path forward for our City's services and operations to seize the moment to create a better future for ourselves, our children, and generations still to come."

- Mayor Denny Doyle



Sustainable Beaverton



Authors

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