

# DRAFT ENERGY AND ENVIRONMENT GOALS AND POLICIES

## **1. Public Comment Summary:**

This summary includes public comment on energy, air and land resources, and sound quality.

### **A. Community Vision and Values Survey (September 2010)**

What three (3) factors do you believe will contribute most to improving the community's health over the next 25 years?

- 43% Reduce the use of amount of chemicals entering our air and water

Over the next 25 years, what do you believe are the three (3) most important things the City and/or community can do to reduce its impact on the natural environment? Should the community provide opportunities/incentives to:

- 73% Reduce the amount of materials that are discarded to landfill and increase the amount of materials that are composted, recycled or reused
- 60% Increase the energy efficiency of buildings
- 48% walk, bike and take transit for more daily trips
- 43% retrofit public infrastructure to clean stormwater before it enters our streams and rivers
- 35% Restore natural habitats

Over the next 25 years, what three (3) actions do you believe you personally are most likely to take to improve environmental quality?

- 48% Recycle and compost/create less waste
- 38% Conserve energy
- 19% Garden organically/eliminate use of chemicals
- 18% reduce water consumption
- 17% Buy "green power" from utilities or install solar panels
- 15% Reduce lawn area/replace with native plants

### **B. Open City Hall – Closed September 4, 2012**

How should the City incorporate energy and water efficiency and green practices into public facilities? Should the city be a leader in incorporating these features into its own facilities, including landscaped areas and parks?

Attendees: 82      Participants around Lake Oswego: 12      Minutes of Public Comment: 36

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#### General themes

- Overall response in favor of the City incorporating energy, water efficiency and green practices.
- Few directly addressed being a “leader”– but many of those that did felt that government leading by example would help show the benefits of green practices and conservation.
- Nearly every response mentioned the “cost” or “economic consideration.” Some were concerned that the focus would be on being green over “practical” and “economic” reasons.
  - “take care of what we have” – frustrated with money spent on “property and development projects that we clearly don’t need”
  - Provide “clear goals” with “reasonable financial payback schedules”
  - Be practical and economical
- Many participants mentioned the idea of long-term savings as a reason to support it. Others recognized that there are potential long-term savings but were more concerned with immediate financial issues/current spending and felt it was not the time to invest in these practices (some cited current city debt and overspending).
  - Use life-cycle costing to show that these practices are “affordable and practical” and can create “longer lasting buildings”
- Security in investing in these practices – longevity of buildings, less impact from fluctuating energy and water costs, potential investment from “clean tech” sector

#### Specific Suggested Action from Participants

- Not watering grass/planting ground cover that doesn’t need as much water/herbicides
- Reconsider type of street lights used (use a lot of energy & cause light pollution)
- Build off of existing green ideas that are out there – no need to start from scratch
- Remove invasive plants, such as ivy

#### **C. Virtual Community Fair – Survey Results (Closed September 17) PRELIMINARY RESULTS**

**How important is it for the City to incorporate energy efficiency and green practices into its own facilities and future infrastructure projects? (183 total responses)**

*One response allowed per participant*

- 43% Very Important
- 30% Important
- 20% Somewhat Important
- 7% Not Important

***(In the following questions, the total percentages add up to more than 100 due to multiple response allowed per participant. Percentages shown in the results reflect how many people selected each option out of the total responses.)***

**How should the City facilitate more community options to prevent waste and increase recycling reuse and materials recovery? (185 total responses)**

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- 77% Provide convenient options for safe disposal of toxic materials (e.g. compact fluorescent light bulbs, batteries, etc.)
- 61% Support deconstruction of buildings rather than demolition and maximize recovery of construction material
- 57% Implement neighborhood recycling center(s) (for non-curb-side recyclable materials)
- 31% Develop waste prevention policies, such as a plastic bag ban
- 25% Encourage zero-waste community events
- 23% Provide weekly residential curbside food waste (organics) collection and move to every other week garbage collection
- 15% Other

• **Where should the City focus its efforts in reducing the community's GHG emissions? (173 total responses)**

- 60% Encourage energy and water efficiency improvements and other green building techniques through a mix of incentives, technical assistance, education, and policy options
- 51% Support diverse transportation options, including car-sharing, access to alternative vehicle fueling options, such as electric vehicle charging, biking, walking, and transit
- 51% Plan for a mix and range of uses (such as retail, entertainment, employments, cultural, and recreational opportunities) within convenient walking and biking distance to neighborhoods
- 48% Promote renewable energy opportunities through a mix of incentives, technical assistance, education, and policy options
- 38% Conduct education and outreach around consumption reduction, waste prevention, transportation options, energy efficiency, renewable energy, etc.
- 22% Other

• **What concerns you about the future of Lake Oswego's natural environment? (224 total responses)**(From the Healthy Ecosystems section but some results are relevant)

- 63% Spread of invasive species
- 44% Development of rural land
- 43% Reduced water quality in streams rivers and Oswego Lake
- 43% Use of pesticides, herbicides and other chemicals
- 38% Increased impervious surface area (e.g. driveways buildings parking lots)
- 28% Loss of tree canopy
- 26% Not enough open space protection
- 19% Reduced air quality
- 17% Not enough fish and wildlife protection
- 15% Other
- 9% None of the above

## **DRAFT ENERGY AND ENVIRONMENT GOALS AND POLICIES**

These goals and policies combine portions of Goals 6, 11 and 13

**VISION** (Although this is in the CHPS action area, the Healthy Ecosystems vision statement also has elements of this topic)



We are good stewards of our environment. Our urban forest, natural areas and watersheds are valued and cared for as essential environmental, economic, and cultural assets. We effectively balance today's community needs with the need to preserve clean air, water and land resources for future generations. The built environment is designed to protect, enhance and be integrated with natural systems.



Our community is a safe place to live and supports lifelong active and healthy living. We have excellent public safety response systems that work together with an involved community to ensure peace and safety. There are opportunities for active lifestyles and to obtain locally grown food that promotes the health and social interaction of our residents.

## **ENVIRONMENT**

### **Statewide Planning Goal 6: Air, Water and Land Resources Quality**

*"To maintain and improve the quality of the air, water and land resources of the state."  
(Please note that Water Quality will be addressed in Healthy Ecosystems)*

### **~~Section 1, Air Resources Quality~~**

#### **GOALS & POLICIES**

##### **GOAL**

Reduce greenhouse gas emissions and air pollution ~~and~~ to protect and improve air quality in Lake Oswego and the Portland Metropolitan Area.

##### **POLICIES**

1. Cooperate with federal, state and regional agencies to meet regulatory requirements and goals that to reduce greenhouse gas emissions and air pollution, and enhance air quality. ~~the air quality standards of the Federal Clean Air Act.~~
- ~~2. Ensure commercial and industrial developments comply with all required state and federal air quality regulations and mitigate the impacts of air pollution through design and abatement measures.~~
- ~~3.2.~~ Preserve and enhance the City's-city's the urban forest\*, open space, and natural resources to sustain their positive contribution to air quality.

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~~4.3. Increase the opportunities to use alternative transportation through City infrastructure projects and development requirements as a means to reduce air pollution, as detailed in the Connected Community policies. by:~~

- ~~a. Requiring safe and comfortable pedestrian and bicycle pathways as part of all new street construction projects, where feasible;~~
- ~~b. Ensuring new street projects accommodate existing and future transit requirements;~~
- ~~c. Requiring the design of new development to be supportive of pedestrian, transit and bicycle users;~~
- ~~d. Requiring payment of a systems development charge to be applied to the City's pedestrian and bicycle path system;~~
- ~~e. Providing appropriate pedestrian and bicycle facilities as part of new park projects; and,~~  
~~— Maintaining an ongoing program to build and maintain pedestrian and bicycle paths.~~

~~4. Encourage land use patterns which, while reducing dependency on the automobile, are also compatible with existing neighborhoods.~~

~~5. Reduce locally generated vehicle trips by supporting mixed-use development in Employment Centers, Town Centers and Neighborhood Villages to efficiently meet daily needs and encouraging local job creation.~~

~~5. Support and implement trip reduction strategies developed regionally, including employment, tourist, and recreational trip reduction programs.~~

~~6-8. Reduce air pollution and greenhouse gas emissions associated with municipal operations.~~

~~9. Reduce traffic congestion to lessen localized pollution impacts of automobile travel through transportation system management measures, as detailed in Connected Community Goal 3, Policy 5.~~

~~7. Reduce congestion and delay on major streets to lessen localized pollution impacts of automobile travel through methods such as signal timing, access management, intersection improvements, etc.~~

### **Section 3, Land Resources Quality (Solid Waste Management)**

#### **GOALS & POLICIES**

##### **GOAL**

~~The City shall manage solid waste to achieve the maximum reduction of material going to landfills.~~  
Reduce the community's overall amount and toxicity of solid waste while achieving maximum recovery of reusable and recyclable materials.

##### **POLICIES**

1. Implement a city-wide solid waste and materials management program that:
  - a. Follows Oregon's hierarchy for the management of solid waste: waste prevention, reuse, recycling, composting, and energy recovery, with safe disposal as the last option. ~~Reduces, reuses and recycles solid waste before to sending it to landfills;~~
  - a-b. Ensures recovered reusable and recyclable materials are put to the highest and best use;
  - b-c. Is cost effective, efficient, and environmentally sensitive/responsible; and,

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d. Is consistent with regional plans, policies and state law; ~~and~~.

~~e.~~ Meets regional and State materials recovery rates and recycling requirements.

2. Ensure recycling and reuse opportunities are accessible to all households, businesses and institutions, including convenient access to recycle items not collected curbside.
3. Promote solid waste recycling, reuse and disposal options by providing for the licensing and permitting of ~~persons engaged in these activities~~ providers in addition to, or part of, franchise agreements.
4. Prevent public nuisances, health hazards and unsightliness by prohibiting the accumulation of solid waste on private property without proper containment and management.
5. Prohibit unauthorized dumping on private and public lands.
6. Prevent hazardous wastes from entering the waste stream through proper handling and disposal.
7. Require ~~adequate~~ sufficiently sized, screened and enclosed space for recycling, composting, solid waste storage and compacting within industrial, commercial and high density housing developments and ensure proper access for waste hauler vehicles to these areas.
8. Zone adequate land to accommodate recycling and recovery uses and ensure adequate setbacks, buffering and screening are provided to mitigate impacts on adjacent land uses.
9. Reduce the amount of solid waste associated with city government operations by:
  - a. Utilizing recycled, resource efficient, low carbon, least toxic and durable materials in both daily operations and capital projects; and,
  - b. Maintaining in-house waste prevention, recycling and composting programs.
10. Reduce the amount of solid waste generated by private and public construction and demolition activities and increase the recovery and recycling of reusable building materials.

#### **Section 4, Sound Quality**

##### **GOALS & POLICIES**

###### **GOAL**

~~Reduce~~ Monitor noise levels in Lake Oswego ~~and maintain~~ to preserve the quiet character of the community in which people can ~~converse, relax, play and sleep without interference from noise~~ enjoy their living environment with minimal noise intrusion.

###### **POLICIES**

1. ~~Protect~~ Preserve and maintain the quiet character of those areas of the community ~~unaffected by major noise sources~~ located away from commercial and industrial sound sources.
2. ~~Ensure~~ Consider development complies with state and local noise regulations when reviewing development requests.
3. ~~Prevent~~ Minimize noise problems through zoning regulations, development standards and ordinances that prescribe fines and other penalties for violations and minimize impacts on residential neighborhoods, public open spaces, recreation and natural areas.

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- ~~4. Evaluate~~ Consider the noise potential of proposed development to prevent noise conflicts between uses, and identify potential mitigation measures when necessary.
- ~~4. and separate noise sensitive and noise producing land uses.~~
5. Locate, design and buffer land uses which generate noise such as major transportation facilities, industrial development and active recreation areas to protect existing and future noise-sensitive land uses.
6. Require noise-mitigating construction and site design measures for ~~noise-sensitive development that would be impacted by existing or future noise producing land uses~~ producing non-residential development in proximity to residential zones.  
~~Minimize noise impacts on residential neighborhoods, public open spaces, recreation and natural areas.~~

## Goal (11 & 13): Energy

### ~~Goal 11 — Public Facilities and Services~~

#### **BACKGROUND**

##### **Statewide Planning Goal 11: Public Facilities and Services**

*"To plan and develop a timely, orderly and efficient arrangement of public facilities and services to serve as a framework for urban and rural development."*

#### **Section 5 Administrative and Government Services, Energy, Communications, & Schools**

#### **GOALS & POLICIES**

##### **GOAL**

~~The City shall ensure the availability of administrative and general government services and shall coordinate with efforts of others to provide schools energy and communication services~~ are available to all development.

##### **POLICIES**

- ~~1. Ensure administrative and general government services are adequate to support the delivery of public facilities and services to the community.~~
- ~~2.1.~~ Require energy ~~and communication~~ utilities to be provided to all development.
- ~~3.2.~~ Require developers to establish, and ensure the preservation of easements necessary, to provide energy ~~and communication~~ services.
- ~~4.3.~~ Require new energy ~~and communication~~ utilities to be placed underground where practical.
- ~~4.~~ Remove barriers to implementation of new energy distribution systems, as these delivery and storage technologies become available.

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- ~~5. Review all residential development proposals for potential impacts on the school system including the adequacy of existing schools and the need for new facilities.~~
- ~~6. Require safe and accessible transportation routes to schools.~~

## **GOAL 13: ENERGY CONSERVATION**

### **BACKGROUND**

#### **Statewide Planning Goal 13:**

*"Land and uses developed on the land shall be managed and controlled so as to maximize the conservation of all forms of energy, based on sound economic principles."*

### **GOALS & POLICIES**

#### **GOAL**

~~The City shall conserve energy~~ Reduce greenhouse gas emissions and energy consumption throughout the community to reduce energy costs and -the social, economic, and environmental effects of global warming.

#### **POLICIES**

1. Promote energy efficiency and renewable energy improvements to increase Lake Oswego's long-term affordability and resiliency.
2. Reduce carbon emissions, energy and water consumption, waste and toxics from City operations.
- ~~1. Reduce the City's overall energy consumption.~~
- ~~2. Promote the use of renewable energy sources.~~
3. Reduce energy consumption and carbon emissions related to transportation by promoting a reduction in vehicle miles traveled through the use of alternative transportation, increasing the efficiency of the road system, and developing infrastructure for delivery of renewable, less carbon-intensive and least toxic fuels.
- ~~3.4. Promote energy and resource conservation in Employment Centers, Town Centers and Neighborhood Villages through compact development, rehabilitation of existing buildings and energy and water efficiencies.~~
- 4.5. Require energy-efficient land use and circulation patterns through mixed-use development, promoting high-density developments near transit and major employment and shopping opportunities, and design of developments to encourage alternative transportation.
- ~~5.6. Promote energy efficiency and renewable energy use through site planning for all types of development including residential subdivisions, multi-family, commercial and industrial projects.~~



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- ~~6.7.~~ Require solar orientation for subdivision and partition layout, encourage planned unit developments and clustering, encourage appropriate landscape materials to reduce solar impact in the summer, minimize winter heat loss and buffer against prevailing wind sources.
- ~~7.8.~~ Protect solar access to use natural heating and lighting opportunities.
9. Implement and enforce state energy codes through the building permit review process and encourage development to achieve energy efficiencies beyond state codes.
10. Encourage the community to reduce greenhouse gas emissions from materials flows (foods, goods and services consumed in Lake Oswego).
11. Improve the response and resilience of the community to climate change impacts through well-designed, flexible and strong infrastructure (physical, social, ecological and economic systems).
- ~~8.12.~~ Utilize full life-cycle cost analysis when considering expenditures for new public buildings, and endeavor to have buildings meet the Living Building Challenge (achieve zero net energy and water consumption, and produce no wastes or toxics).
13. Adapt the transportation system to strengthen resilience to changes in climate, increases in fossil fuel prices, and economic fluctuations.

**Comment [BSA1]:** The solar policies need more review. One possible revision is to combine the two into one.

**Comment [BSA2]:** The SAB is currently working on a green building policy as part of its work plan. The efforts should be consistent.

Definitions:

Global warming: an increase in the average temperature of the earth's atmosphere that is associated with the release of greenhouse gases. (From House Bill 3543-B, 2007)

Greenhouse gas means any gas that contributes to anthropogenic global warming including, but not limited to, carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons and sulfur hexafluoride. (From House Bill 3543-B, 2007)

Urban forest: Trees and vegetation in urban and suburban areas: street trees, landscape trees and plants, and the remnants of the wild forest. This urban forest functions as an ecological unit.