

TOWN OF DANVILLE'S CLIMATE ACTION PLAN

STATEMENT OF PURPOSE AND INTENT

Consistent with recommendations contained in the December 2008 AB 32 Scoping Plan adopted by the California Air Resources Board, the Town of Danville hereby establishes a goal of reducing the Town's current level of Greenhouse Gas Emissions by 15% by the year 2020. In order to achieve this goal, the Town will employ the following Best Practices (and others that may be presented over the years) in the Town's day to day operations. The Town will also look for ways to encourage and assist residents and business owners within the Town to meet the State of California's overall goal of reducing Greenhouse Gas Emissions.

1. ENERGY EFFICIENCY AND CONSERVATION

GOAL	BEST PRACTICE
<p>Improve energy conservation and efficiency in Town buildings and equipment. <i>See also Green Building section for additional energy options.</i></p>	<p><i>Audit/evaluation</i></p> <ul style="list-style-type: none"> • Conduct retro-commissioning studies or audits of Town buildings and facilities to quantify current energy use and identify opportunities for energy savings through efficiency and conservation measures. First priority should be older facilities with older systems. <p><i>Building retrofitting</i></p> <ul style="list-style-type: none"> • Establish annual funding for building retrofits. • Develop implementation schedule for energy and lighting retrofits within annual budgeted amount. <p><i>Operations/protocols</i></p> <ul style="list-style-type: none"> • Establish energy efficiency protocols for building custodial and cleaning services. • Maintain energy efficiency policy for employees that provide guidelines and instructions for efficient use of Town facilities and equipment • Continue implementation of use of variable speed pumps and usage on demand or off-peak. <p><i>Standards/commissioning</i></p> <ul style="list-style-type: none"> • Develop an appropriate Energy Star rating standard for all Town buildings. • Investigate shading requirements for Town and community parking lots, buildings and other facilities to reduce the urban heat island effect. • Integrate energy efficiency, conservation, solar and other renewable energy technologies into new Town facilities.

	<p><i>Work with energy provider</i></p> <ul style="list-style-type: none"> • Work with PG&E to maximize use of their technical assistance and financial incentives.
Reduce energy use for traffic signal and street lighting system.	<ul style="list-style-type: none"> • Continue use of LED traffic and crosswalk lights. • Work with PG&E to replace existing street and parking lot lights with more energy efficient alternatives as such products become available on the market.
Outreach to businesses and residents to promote energy efficiency in the community.	<ul style="list-style-type: none"> • Work with PG&E to provide information to residential and commercial customers about financial incentives and means of improving energy efficiency. • Promote and recognize energy efficiency efforts of local retail businesses on an annual basis.

2. WATER AND WASTEWATER SYSTEMS

GOAL	BEST PRACTICE
Reduce energy use in water, irrigation and waste water systems operated by the Town.	<ul style="list-style-type: none"> • Continue implementation of replacing water and waste-water pumps and motors with variable speed, efficient pumps and motors. • Use recycled water for agency facilities and operations, including parks and medians, where appropriate and available.
Reduce water usage in Town operations and in the community. <i>See also Green Building section for additional options.</i>	<p><i>Town operations</i></p> <ul style="list-style-type: none"> • Assess, maintain and repair existing plumbing fixtures, pipes, and irrigation systems in all Town buildings, facilities and parks to minimize water use. • Continue to upgrade and retrofit Town plumbing and irrigation systems with state of-the-art water conserving technology. <p><i>Community at large</i></p> <ul style="list-style-type: none"> • Work with EBMUD to provide information to residents and local business about readily available water conservation measures. • Continue to require dual plumbing for use of recycled water in landscaping for new developments in designated recycled water use areas.

3. GREEN BUILDING

GOAL	BEST PRACTICE
<p>Establish minimum levels of energy efficiency and green building standards for Town buildings and facilities. <i>See also Energy Efficiency and Conservation section.</i></p>	<ul style="list-style-type: none"> • Develop an appropriate Energy Star rating standard for all Town buildings. • Require all new Town buildings and facilities to meet at least LEED Silver certification standards.
<p>Assist commercial and residential owners in identifying opportunities to implement energy efficient and green building standards. <i>See also Energy Efficiency and Conservation section for more options.</i></p>	<ul style="list-style-type: none"> • Investigate potential incentives for private development projects seeking to utilize energy efficient or green building techniques. <ul style="list-style-type: none"> ▪ Investigate options to implement AB811 for property owners desiring to install solar or other energy efficiency measures at their properties. • Provide information and technical assistance to commercial and residential property owners in Town regarding green building programs such as Build It Green, California Green Builder and LEED and financial incentives available for energy efficient installations.
<p>Implement sustainable Landscaping standards. <i>See also Water and Wastewater section for more options.</i></p>	<ul style="list-style-type: none"> • Develop and implement sustainable landscaping standards for Town facilities and landscape areas to reduce water consumption. • Review and update as necessary the sustainable landscaping standards for new developments contained in Section 32-80 of the Municipal Code.

4. WASTE REDUCTION AND RECYCLING

GOAL	BEST PRACTICE
<p>Enhance existing waste reduction and recycling activities at Town buildings and in the community.</p>	<ul style="list-style-type: none"> • Maintain a comprehensive waste reduction and recycling program in Town offices and facilities. • Identify opportunities to partner with local schools, public agencies and businesses on waste reduction and recycling programs. • Increase opportunities for e-waste and hazardous waste recycling by residents and businesses. • Work with CCCSWD to provide information and education to the community about recycling and waste reduction opportunities. • Working through CCCSWD, look at adopting programs such as restaurant food waste collection, kitchen waste and other recycling programs for homes and businesses.

<p>Implement source reduction and recycling programs for waste organic material.</p>	<ul style="list-style-type: none"> • Identify additional opportunities to increase material recovery and beneficial use of organic material at Town facilities. <ul style="list-style-type: none"> ▪ Working through CCCSWD, identify additional programs to encourage organic waste recycling and source reduction at residences.
<p>Reduce office and commercial waste and increase recycling.</p>	<ul style="list-style-type: none"> • Working through CCCSWD, identify potential programs such as: <ul style="list-style-type: none"> ➤ Enhancing recycling at multifamily projects. ➤ Enhancing recycling in the commercial sector. ➤ Encourage businesses to participate in program such as CalMax (California Materials Exchange). ➤ Encourage individual businesses to participate in waste audits and reduction plans.
<p>Source reduction, recycling and resource recovery programs for construction and demolition material.</p>	<ul style="list-style-type: none"> • Require all Town demolition projects to incorporate deconstruction and construction and demolition waste recycling or recovery practices. • Adopt a “deconstruction” program or ordinance to salvage and reuse materials in all remodeling and construction projects. • For Town street and road projects, use rubberized asphalt concrete (RAC) or recycled asphalt pavement (RAP) whenever feasible. • Provide information to contractors and property owners regarding opportunities to recycle or reuse building materials.

5. CLIMATE FRIENDLY PURCHASING

GOAL	BEST PRACTICE
<p>Commit to purchasing specific products and goods that are climate-friendly. <i>See also Waste Reduction and Recycling and Green Building sections.</i></p>	<ul style="list-style-type: none"> • Adopt and implement a procurement policy that establishes standards for climate-friendly products and requires Town purchases to meet such standards as: <ul style="list-style-type: none"> ◦ New equipment meets Energy Star or comparable energy efficiency standards. ◦ Computers meet the highest feasible EPEAT certification level. ◦ Office paper purchases (copy paper, printer paper, writing pads, stationery, envelopes and business cards) contain a minimum specified percentage of post consumer recycled content. ◦ Other paper purchases (paper towels, toilet paper, napkins and similar items) contain a minimum percentage of post consumer recycled content.

	<ul style="list-style-type: none"> o Carpeting and other furnishings contain a minimum percentage of recycled content. o Plastic items (refuse and recycling receptacles, decking, parking lot barriers, furniture, etc.) contain recycled content. o Oil and oil-related products contain recycled content. o Products certified by either GreenSeal or EcoLogo, as long as they cost no more than an agency-determined percentage above the price of noncertified products.
Purchase services that are climate-friendly.	<ul style="list-style-type: none"> • Provide a preference in selecting and contracting with service providers to those that follow climate-friendly practices or are registered with the California Climate Action Registry or its successor. • Provide incentives for the use of alternative fuel vehicles for agency contracts for services involving vehicles, such as buses.
Give a preference to climate friendly vendors.	<ul style="list-style-type: none"> • Provide a price preference to product vendors that follow climate-friendly practices, including use of recycled content materials, Energy Star and EPEAT materials and equipment, as well as alternative fuel vehicles.

6. RENEWABLE ENERGY AND LOW-CARBON FUELS

GOAL	BEST PRACTICE
Promote agency use of fuel efficient and alternative fuel vehicles to reduce reliance on fossil fuels. <i>See also Efficient Transportation section</i>	<ul style="list-style-type: none"> • Identify opportunities to convert portions of the Town’s vehicle fleet to run on alternative fuels that reduce greenhouse gas emissions. <ul style="list-style-type: none"> ▪ Adopt a fleetwide mileage standard for all Town vehicles. • Install bicycle racks, showers and other amenities at Town facilities to promote bicycle use by Town employees and visitors.
Promote the use of renewable sources of energy.	<ul style="list-style-type: none"> • Install photovoltaic systems or other renewable sources of energy on Town property in a manner and location to maximize energy production, with a goal of providing 15% of the Town’s electricity through such systems. • Identify and investigate possible incentives to encourage installation of photovoltaic systems on new or existing residential and commercial buildings.

7. EFFICIENT TRANSPORTATION

GOAL	BEST PRACTICE
Implement transportation planning processes that enhance an efficient transportation system in the Town and region.	<ul style="list-style-type: none"> • Ensure that transportation models are updated regularly and reflect all modes of transportation. • Make reductions in vehicle-miles traveled (VMT) a high-priority criteria in evaluation of policy, program and project alternatives. • Implement transportation planning procedures that consider demand management solutions as well as strategies to increase capacity.
Improve infrastructure and Transportation Systems Management (TSM).	<ul style="list-style-type: none"> • Implement and/or maintain programs such as signal synchronization and timing and other traffic flow management techniques, to improve traffic flow and reduce vehicle idling.
Promote alternatives to single occupant auto commuting. <i>See also Land Use and Community Design section.</i>	<p><i>Agency operations</i></p> <ul style="list-style-type: none"> • Provide Town employees with alternatives to single occupant auto commuting at peak traffic times, such as flexible schedules, transit incentives, bicycle facilities, ridesharing services and telecommuting. <p><i>Community at Large</i></p> <ul style="list-style-type: none"> • Provide information to residents and employers about programs providing alternatives to single-occupant auto commuting such as ride sharing, public transit, biking, etc. • Work with Measure J Congestion Relief JPA to promote use of school buses to reduce traffic congestion around schools. • Consider providing parking preferences in Town parking lots for residents and employees who rideshare or use low-carbon fuel vehicles.

8. LAND USE AND COMMUNITY DESIGN

GOAL	BEST PRACTICE
Create neighborhoods that are attractive, safe and convenient for walkers and bicyclists. <i>See also Efficient Transportation section.</i>	<ul style="list-style-type: none"> • Implement the Townwide Trails Master Plan to promote safe pedestrian and bicycling opportunities. • Encourage commercial and office developments to install bicycle parking facilities and other cyclist amenities. • Concentrate on providing bicycle access to major transit corridors and other routes that may attract bicyclists, such as routes serving schools and community facilities. • Use traffic calming measures to reduce speeds and volumes and increase the safety and feasibility of cycling and walking.

<p>Incorporate greenhouse gas emissions considerations into the General Plan and environmental review process. <i>See also Efficient Transportation section.</i></p>	<ul style="list-style-type: none"> • Analyze impact of greenhouse gas emissions from land use and transportation sectors in connection with general plan updates consistent with SB 97 and related OR guidelines. • Amend local CEQA guidelines to explain how analysis of greenhouse gas emissions will be treated, such as thresholds of significance, to be consistent with guidelines adopted by OPR in response to SB 97.
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9. STORING AND OFFSETTING CARBON EMISSIONS

GOAL	BEST PRACTICE
<p>Preserve and enhance forests, parks, street trees, open space and other natural systems that act as carbon “sinks.”</p>	<ul style="list-style-type: none"> • Manage parks and other Town properties to ensure the long-term health and viability of trees and other vegetation and look to add trees where feasible. • Continue to apply the Tree Preservation ordinance to protect trees and to ensure replacement of trees removed pursuant to the ordinance. • Partner with other agencies and non-profit organizations to protect natural lands in and adjacent to the Town through acquisition of land, conservation easements or other mechanisms.
<p>Promote local sustainable agriculture to reduce carbon emissions.</p>	<ul style="list-style-type: none"> • Promote the purchase of local and organic produce through farmers markets and other measures. ▪ Identify opportunities to create and promote community gardens for residents.

10. PROMOTING COMMUNITY AND INDIVIDUAL ACTIONS

GOAL	BEST PRACTICE
<p>Promote and recognize individual actions to reduce greenhouse gas emissions and conserve natural systems that store carbon.</p>	<ul style="list-style-type: none"> • Include information on actions that individuals can take to address climate change in Town mailings, websites, and other communications. • Identify opportunities to participate in community climate change efforts with schools, service groups, business organizations and other community groups. • Provide recognition to individuals, groups, and businesses that adopt practices that reduce their carbon footprint.
<p>Promote cooperation among agencies and communities to reduce greenhouse gas emissions and conserve natural systems that store carbon.</p>	<ul style="list-style-type: none"> • Participate in inter-agency and inter-jurisdictional meetings to share information about climate change and best practices to reduce carbon emissions. • Participate in regional planning processes to assess the climate impacts of future growth and develop a preferred climate-friendly growth scenario.