


TO: TOWN COUNCIL
FROM: TOWN MANAGER 
RE: GREEN RIBBON TASK FORCE REPORT

ISSUE

Mayor Liss has concluded work with his Green Ribbon Task Force and has a report to submit for Council consideration.

RECOMMENDATION

Receive report and give direction as to how Council wishes to consider the proposed recommendations. Staff suggests that the recommendations be considered in a manner like recently done with open space and down town park recommendations.

CEQA

There are no CEQA issues at this time however there could be depending on how the Council wishes to proceed with various report recommendations.

MONEY

There are no money issues at this time however there could be depending on how the Council wishes to proceed with various report recommendations.

DISCUSSION

At the January 12, 2010 meeting Mayor Liss advised the Council that he planned to create a Green Ribbon Task Force. His plan was to name and chair an informal group in order to:

- identify current good examples of green and sustainable policies and programs
- consider green and sustainable policies and programs that the Town could adopt (e.g. Improve the Town's recycling program)
- identify businesses in Loomis that offer green and sustainable services or products
- identify business sectors in Loomis that could offer more green and sustainable services or products

[1/12/10 Council Agenda Staff Report]

Council agreed that the Mayor proceed with his Green Ribbon Task Force and report back later in the year. The Task Force has met and the attached report is submitted for Council information and consideration of the proposed recommendations.

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**REPORT OF LOOMIS
GREEN RIBBON TASK FORCE**

November 3, 2010



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REPORT OF LOOMIS GREEN RIBBON TASK FORCE

BACKGROUND

In January 2010, Mayor Gary Liss invited interested individuals, businesses and organizations to be part of the “Green Ribbon Task Force” in order to identify:

- ◆ Current good examples of green and sustainable policies and programs used regularly by the Town
- ◆ Additional or improved green and sustainable policies and programs the Town could adopt
- ◆ Businesses in Loomis that offer green and sustainable services or products
- ◆ Business sectors in Loomis that could offer more green and sustainable services or products

The Green Ribbon Task Force was asked to identify opportunities for residents, businesses and the Town to save money and participate in expanding green jobs and the green economy. The Task Force was also asked to identify how the Town could help its residents and businesses comply with new state sustainability rules such as AB32.

The Green Ribbon Task Force was composed of Loomis citizens and business interests, augmented with expert advisors from the County, State, non-profit and private sectors. The Task Force was organized informally to avoid the costs associated with staff assistance, formal agenda preparation, and minutes. As a working group it developed recommendations based on the collective knowledge and experience of those assembled. Most of the recommendations are proposed to be considered in the formal processes over time that the Town uses to adopt policies and programs.

The Task Force began meeting on January 27, 2010 and met about 10 times since then in open public meetings. The Task Force was asked to help through December 2010, until the recommendations were presented to the Council.

This is the report on the Task Force recommendations. Mayor Liss asks the Council to adopt 10 recommendations noted for immediate action at the November 2010 Council meeting.

RECOMMENDATIONS FOR IMMEDIATE ACTION

Recommendations from the Task Force are that the Town of Loomis support the following programs in the area that are helping to promote sustainability:

Recycling Initiatives

1. **Pilot Super Recycler Service** - Develop pilot program for Recology, the Town’s franchise refuse hauler, to promote a “Super Recycler” service and rate to all Loomis residents beginning in January 2011. Super Recycler service would include 32-gallon garbage service (in customer provided can) with free blue bags for recycling and green bin for yard trimmings in all “urban areas” of Loomis. Evaluate response to pilot program in April 2011 and

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consider any adjustments needed to program and garbage rates that need to be adopted in June 2011 to keep providing the Super Recycler service and rate. If there is sufficient interest, consider offering a Recology provided 32-gallon garbage cart that can be emptied by their automated collection trucks.

2. **Improve Blue Bag Program** - Improve existing blue bag residential recycling program by:
 - a. Including labels with distribution of blue bags that includes Recology contact info and website URL with instructions on how to participate and what can be recycled. Phase out blue bags to labeled clear bags that can also be recycled.
 - b. Asking Recology to develop and distribute a new recycling flyer that includes information about blue bags, green bins and Super Recycler 32-gallon can option
 - c. Including instructions on how to participate and what can be recycled on Town website and links to other recycling websites.

Green Building, Green Businesses and Green Jobs

3. **Lead by Example in Downtown Park** - Include solar panels on shade structure proposed for new Downtown Park, funded by PG&E 0% interest program, and use energy from those panels for lights in park and Train Depot. Install LED lights in Downtown Park, with the incremental initial capital cost funded by PG&E 0% interest program. Include "help yourself" recycling locations and signs on top of trash containers. Delete lawn area next to the Train Depot, as it's on a slope, which wastes water and is of little practical use. Include rainwater harvesting for Train Depot and Downtown Park to hold and gradually disperse rainwater so that it doesn't create more runoff.
4. **Cal-Green Building Code** - The New Title 24 building code known as Cal-Green takes effect statewide January 1, 2011. The Town should partner with Placer Sustain and local experts to host educational forums on new requirements for clean and green technologies and approaches to help residents and businesses comply with these new requirements.
5. **Green Business & Economic Development Programs** - Encourage Loomis businesses to join the Placer County Green Business Program when it is launched in January 2011. Work with the Placer County Economic Development Board to participate in the Board's recently recommended Economic Development Professionals Stakeholders Network that would include the business community and interested local citizens.

Energy and Water Efficiency

6. **Energy Audits** - Promote cost effective energy audit programs for residents and businesses as the first step to improving their energy use and saving money, including free audits offered by PG&E to non-residential customers. Publicize how to access and use Smart Meter information from PG&E Website to reduce/shift energy use. Invite PG&E to conduct presentations at local schools on the use of Smart Meters and encourage competitive challenge for classes to reduce energy use at students' homes. PG&E make presentations to local business groups (e.g., Chamber of Commerce) on Smart Meter and how to use the information from the meter to reduce or shift energy use.
7. **Public Facilities** - Build temperature-controlled closet in Town Hall around computer server so that the rest of Town Hall HVAC system can be turned off when building is not occupied. Explore turning lights out at Del Oro Football Stadium when not in use.
8. **Sunrise Park** - Replace all spray heads with Hunter MP Rotator heads to save water and money. Remove strip of grass along the west side and replace with native ground cover.

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Arrange pilot program to improve the turf at the park with natural soil conditioners instead of chemicals.

Sustainability Education and Recognition

9. **Educational Forums** - Sustainable Loomis organize educational forums on new CalGreen Building Code and Low Impact Development water regulations to help residents and businesses comply with new laws.
10. **Placer County Green Business Program** - Encourage businesses to join the Placer County Green Business Program, organized with Sacramento Area Sustainable Business Program of the Sacramento Business Environmental Resource Center.

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EXISTING GREEN/SUSTAINABLE POLICIES AND PROGRAMS

One of the tasks of the Task Force was to inventory the existing green, clean and sustainable policies and programs in Loomis and the surrounding area. The Task Force found that Loomis has a rich history and commitment to sustainability embodied in many existing policies and programs. Loomis has survived its first 25 years since incorporation through the many contributions of many volunteer organizations, businesses and individuals.

Loomis' slogan "A small town is like a big family" means that Loomis residents take care of each other, and it was incorporated to preserve the rural lifestyle and natural environment that all Loomis residents cherish. A goal of this Task Force report is to build on those existing accomplishments and values, to promote and expand those initiatives, and to highlight opportunities for residents, businesses and the Town to become even more sustainable.

In Loomis

- ◆ **Public Works** - The regional Air Board paid for new diesel loader and bucket trucks. Retrofits in 2 yrs. Only town car is a Taurus. The old air compressor was taken out of service as a condition of the grant. They don't typically put that many miles on the vehicles, and usually have 2 or 3 people on trips. They give out used oil containers at the Eggplant Festival and Earth Day. A federal grant has been applied for to change signalized intersections and some downtown streetlights to LED.
- ◆ **Water** - All new projects will be compliant with the state model landscape water ordinance. A grant to create a rain garden and/or rain harvest tank at the Train depot was applied for with other jurisdictions, but was unfortunately denied. Emily Cady, president of the Future Farmers of America (FFA) is working to make the Del Oro Farm a place for others to learn how to capture rainwater to use in farming and gardening. This Del Oro FFA project is intended to provide an ongoing learning experience for students, local gardeners and anyone interested about water conservation and the harvesting of rain water for community farms and gardens.
- ◆ **Energy** - A new Energy Star copier is in use. Computers are all no more than 5 years old. The new Town Hall reused an old building, has a newer HVAC system and new fluorescent lighting including motion activated lighting. Direct sunlight was retained. PG&E recently conducted an energy audit for Town Hall to reduce energy consumption
- ◆ **Planning** - The Housing Element has an excellent Energy Conservation section. The updated Housing Element will have more sustainability policies, including possible rezoning of land for higher density. A key sustainability initiative could be to support second units and retention of mobile home parks for affordability.
- ◆ **Recycling** - Residents and businesses are provided options to recycle by the Town's designated garbage and recycling hauler, Recology (formerly named Auburn Placer Disposal). Residents are provided blue bags for free to recycle a wide variety of

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materials, including newspapers, mixed paper, bottles and cans. Residents in urban areas are also provided green carts for them to place yard trimmings, which are collected separately and composted. Some residents have taken advantage of a lower rate for requiring only 32-gallons of garbage service that is collected from carts that residents provide themselves. The 32-gallon rate is currently about half that of the rate for 96 gallon cart service. Businesses are also offered options for recycling service that enables them to decrease their costs for garbage service. Recycling services are provided at no additional cost for both residents and businesses by Recology under the terms of their contract with the Town. At Town Hall, office paper and cardboard are recycled. Blue bags are on hand to give out to residents who request them. Bottled water service was stopped to decrease waste of containers. The Town used old moving boxes in its recent move.

◆ Community Vision –Sustainable policies contained in the Town of Loomis General Plan are:

1. Page 12, the creation of sustainable policies: environmental, social and economic impacts.
2. Page 13. Conservation, addressing the conservation and use of natural resources, including wetlands, forests, rivers, archeological remnants, and historic structures.
3. Page 14. Policies are specific statements that guide decision making.
4. Page 33, Land use issues, increased urbanization threatening to encroach upon open space.
5. Page 34, D, Loomis supports “Right to farm”.
6. Page 35, Livability. Loomis shall require the design of future residential projects to emphasize character, quality and livability.
7. Page 35, clustering. The town may approve of the “clustering” of developments.
8. Page 55, Town will support “emerging technologies”.
9. Page 95, Housing element. Loomis should support sustainable programs in all development plans.
10. Page 104 E, energy conservation programs (weatherization). Goal: To increase the efficiency of energy use in new and existing homes, with a concurrent reduction in housing energy costs in Town residents.
11. Page 107, Public services policies.
12. Page 108, 5. Loomis will work with solid waste collection improving the recycling program.
13. Page 108, 6. The Town should support source reduction.
14. Page 108, 8. New construction and reconstruction /restoration shall consider energy conservation in the selection of building materials, building orientation and landscaping.
15. Page 108, 9. The Town shall identify the potential for energy conservation measures for the use of renewable energy sources and alternatives for fossil fuel.
16. Page 108, 10. The Town shall participate in energy conservation of the local, state and federal agencies.

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17. Page 108, 11. The Town shall consider the use of alternative energy sources for all public facilities.
18. Page 112, Policies 1. i. New development shall pay its share of the cost to provide alternative transportation system, including bikeways, pedestrian paths and bus stop facilities.
19. Page 115 and 116, Interagency Coordination. Loomis will work cooperatively with state regional and local agencies that will implement policies relating to water quality and wetland concerns.
20. Page 116, Amend zoning ordinances to implement programs protecting the environment.
21. Page 119, Public Health and Safety, Hazardous waste management.

In region for Loomis to support and participate in:

- ◆ South Placer Green Business Program – This effort was initiated by the Regional Recycling Working Group of staff members of local governments in western Placer County. They have reached out to the Sacramento Business Environmental Resource Center (BERC) for assistance to recognize sustainable businesses in the South Placer County area as they currently do with the Sacramento Sustainable Business Program (see www.SacramentoSustainableBusiness.org and flyer in Attachment B). This will be a pilot program for the first year beginning January 1, 2011, supported by donations from area businesses. The City of Roseville recently approved an agreement with BERC to initiate this program on behalf of participating communities in western Placer County, including Loomis.
- ◆ Placer Sustain – This is a new group organized by Loomis resident Jeffrey Bordelon working to support sustainability efforts throughout Placer County. Placer Sustain convenes meetings with elected officials and staff, state and county agencies, utility companies, Sierra College, businesses, and community-based organizations. Placer Sustain connects people and inspires collaboration to build healthy communities and thriving local economies (see www.placersustain.org).
- ◆ mPOWER – The Town joined in supporting this Placer County program that currently provides assessment financing repaid through property taxes for energy and water efficiency improvements for businesses (see www.mpowerplacer.org).

Existing Green/Sustainable Businesses

The following is a list of sustainable businesses in Placer County documented by the Sacramento area Sustainable Business Program :

Auburn

- American Home Sales
- Nella Oil E85

Lincoln

- Eco-Chic Design
- Golden State Collision Center

Loomis

- Sierra Auto Care

- Solar Universe

Rocklin

- Bon Bon Boutique
- Engeo Incorporated
- Fillner Construction
- Five Star Auto Care
- Five Star Bank
- Integral Networks

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- Mechanics Bank
- Phillips 76 E85
- Solarecity Electric
- Trofholz Technologies. Inc.
- United Natural Foods
- Varied Treasures
- Verizon Mobile Switch Center

Roseville

- Dos Coyotes Border Café
- Fairway Carwash
- Gamboa's Body and Frame
- Golden State Collision Center

The following is a list of clean technology businesses in Placer County documented by the Sacramento Area Regional Technology Alliance (SARTA)¹:

Auburn

- 1 Star Energy
- American Home Sales, Inc.
- Auburn Solar Electrical
- Enercomp
- Hy Solar Energy
- Pacific Power Management, LLC
- Green Planet Solutions
- Lifetime Solar
- Matson Services
- Pacific Solar Company
- SunRiver Solar Power Systems

Granite Bay

- Solar Development, Inc
- Zigg Electric and Solar
- Solar Pro International

Loomis

- Solar Universe (Emards EST)
- Coldwell Solar

- Green Planet Pizza
- Hunt & Jeppson, Attorneys at Law
- Intero Real Estate
- Jaywalker Maintenance Solutions
- Johnson Controls, Inc.
- LPA, Inc
- Mechanics Bank
- REI Roseville
- Rubicon Partners, Inc. - Roseville
- The Dohemann Companies, Bldgs A & B
- Quick Books Specialists

Rocklin

- Brower Mechanical
- Optimized Energy & Facilities Consulting, Inc.
- Solarecity Electric
- SPS Energy Solutions
- SMA America
- Sol Verde Engineering Solutions
- Sun Works Company

Roseville

- Current Savers, LLC
- Encon Energy Conservation
- Phoenix Consulting
- Schott Solar
- Agoura PolarBrite Technology
- Creative Eye Design-Build
- Energy Saving Specialists
- Government Solar Consulting
- Granite Bay Energy Group, Inc.
- GreenWire Technologies
- Inspired Solar Technologies
- SmartWatt Energy Inc.
- Solar Power Integrators
- Solar Power, Inc.
- SolarMasters
- Yes! Solar Solutions
- Paramount Energy Solutions

¹ Analysis of SARTA database completed by Michael Littlejohn for Loomis Green Ribbon Task Force, 10/14/10

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In addition, during the course of Task Force discussions to date, the following Loomis businesses were highlighted as being green in some ways as well:

- Raley's
- Homewood
- Rejuvenate Spa

Existing Green/Sustainable Services offered in Loomis

Each of the following companies and agencies have different services that could help Loomis residents and businesses be more sustainable:

- Recology (Auburn Placer Disposal)
- Pacific Gas & Electric
- Placer County Water Agency
- Placer County Transportation Agency
- South Placer Municipal Utility District
- Placer Grown

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ENERGY EFFICIENCY AND RENEWABLE ENERGY RECOMMENDATIONS

Background

1. The Town applied for a federal grant to change signalized intersections and some downtown streetlights to LED. That grant proposal was not approved.
2. The new Town Hall reused an old building, has a newer HVAC system, and new fluorescent lighting including motion lighting. Direct sunlight was retained.
3. The Town's Housing Element has an Energy Conservation page that has lots of information and suggestions on how to save energy locally.

Recommendations

General

1. When evaluating proposed residential projects, Town staff and the Planning Commission could compare what is proposed to the options detailed in the Housing Element.
2. Financing Programs - Promote mPOWER Placer County, PG&E and other innovative financing programs and tools to install renewable energy and energy efficiency measures. Promote how mPOWER has reopened to help commercial accounts. Support efforts to resolve mPOWER financing of residential accounts due to problems with Fannie Mae and Freddie Mac. Promote PG&E's 0% interest financing program for non-residential projects and encourage its expansion to residential projects. Encourage mPOWER and PG&E to highlight each other's programs and to clearly identify which best applies to different needs of customers.

Renewable Energy:

3. **Solar Power** - Encourage Loomis residents and businesses to install solar panels **after** they conduct energy conservation audits and implement ways to increase their energy efficiency. Consider installing solar panels at City-owned facilities whenever new construction or remodeling takes place (e.g. Town Hall, Public Works Yard, parks, and over parking lots). Include solar panels on shade structure proposed for new Downtown Park, funded by PG&E 0% interest program, and use energy from those panels for lights in park and Train Depot. Require all new major residential developments to obtain at least 50% of their energy needs from renewable energy resources. Assist schools in Loomis to evaluate benefits of installing solar on their buildings and over their parking lots.
4. **Digester** - Support the development of a bio-digester to use biosolids from treatment of Loomis sewage and commercial food scraps at the Roseville Wastewater Treatment Plant to recover energy.
5. **Biomass** - Identify what agricultural or wood wastes (e.g., wood harvested from fire safety programs) are produced in the area. Explore potential for a biomass plant in the area (e.g., a school or major energy user in Town).
6. **Hydro** - Explore potential for small turbines to be located in local irrigation ditches that are adjacent to power lines.

Energy Efficiency:

7. **Cal-Green Building Code** - New Title 24 building code known as Cal-Green takes effect statewide January 1, 2011. The Town should partner with Placer Sustain and local experts to

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- host educational forums on new requirements for clean and green technologies and approaches to help residents and businesses comply with these new requirements.
8. **Energy Audits** - Promote cost effective energy audit programs for residents and businesses as the first step to improving their energy use and saving money. Promote existing service providers and advocate for PG&E to renew free residential energy audits as they used to provide.
 9. **Green Building Tax Incentive** - Ask County Supervisors to adopt a policy that energy conservation and renewable energy improvements won't trigger new property tax assessments if projects are determined by Town to be more than 10% better than new Title 24 building regulations based on data provided to the Town.
 10. **Green Building recognition** - Town promote Build It Green for residential buildings and LEED certification for commercial buildings and recognize those who comply at Council meetings.
 11. **Permits Energy Review** - Whenever non-residential permits are pulled, refer plans to PG&E for their review and comment on how to conserve more energy and use more renewable energy. Let architects and engineers know at the outset of a project that those are important concerns for the Town. Emphasize on Town's website that project proponents should contact PG&E before they submit plans to the Town.
 12. **Public Facilities Energy Audits** - Evaluate use of energy at all public buildings, including Town Hall, County (e.g., Memorial Hall), and schools. As example, build temperature-controlled closet in Town Hall around computer server so that the rest of Town Hall HVAC system can be turned off when building is not occupied. Explore turning lights out at Del Oro Football Stadium when not in use.
 13. **Load Shifting Devices** - Consider installing devices on municipal buildings that reduce the power required to operate equipment and for shifting the equipment usage to off-peak. Consider a pilot project to install load shifting devices in a sampling of commercial customers to test on-going viability of such technology.
 14. **Time Dependent Electric Rate** - Most people in Loomis have E1- SH or E1-SB rates, which do not include time of use rates. Residents could reduce size of solar if went to time of use rates. Provide list of peak activities and non-peak activities for posting on refrigerators, to help residents manage their electric load. Advocate that PG&E expand seasonal "time of use" billing rate that offers lower rates for electric usage during off-peak hours than during peak hours.
 15. **Smart Meters** - Work with PG&E to promote use of Smart Meters and more targeted tools to that would allow individual energy users to easily access consumption information. Encourage residents and businesses to shift to off-peak use of major energy-using equipment. Publicize via newspapers how to access and use Smart Meter information from PG&E Website to reduce/shift energy use. Invite PG&E to conduct presentations at local schools on the use of Smart Meters and encourage competitive challenge for classes to reduce energy use at students' homes. PG&E make presentations to local business groups (e.g., Chamber of Commerce) on Smart Meter and how to use the information from the meter to reduce or shift energy use.
 16. **Benchmarking** - State law now requires filling out a benchmark form that provides an energy footprint for the building if remodeling or building a new facility. This is now part of title company forms. Work with local realtors to highlight this information to buyers of buildings. This provides facts about the historical energy use for that building, and enables buyers to compare their usage to the baseline of the prior owners.
 17. **Demand-side Management** - Explore control measures for utility imposed service interruption and critical peak pricing rates.
 18. **Light Replacement Program** - Replace traffic signals with Light Emitting Diode (LED) technology in all Loomis traffic signals. Help make the replacement to LEDs financially

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more palatable for businesses or individuals through innovative financing programs to give loans for replacement of lighting with LEDs.

Web sites for further info:

www.mpowerplacer.org/

www.pge.com

<http://www.home-energy-audits.com>

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WATER CONSERVATION RECOMMENDATIONS

Background

The Town has spent over \$18,000 on water over the last year (see graph below). Most of the water is used at Sunrise Loomis Park. Residents who frequent the park indicated that at times the ball field has been so overwatered that it becomes a standing pond. Some spots are underwatered and others overwatered. There has been a lot of overspray onto sidewalks. They said things seem to have improved in the last year.

An Irrigation Audit was performed by Vicky Bartish of Landscape Liaisons, a local Certified Irrigation Auditor, on August 13, 2010 at Sunrise Loomis Park to determine the efficiency of the present irrigation system. The audit was a follow-up to an Irrigation Assessment requested by the Town of Loomis and performed by Audra Davison of PCWA on June 28, 2010. Don Franklin of Hunter Industries, Audra Davison of PCWA, Ron _____ of Loomis Public Works Dept., and Cheryl Buckwalter of Landscape Liaisons were also present.

The June audit found that

- Flowerbeds and shrub areas are watered with sprinklers. Flowerbeds and shrubs should be on a drip system to promote proper watering, healthy plant development, and water efficiency.
- Picnic area to the right of the basketball court is a difficult area to water efficiently.
- Large areas of brown turf were due to late system start-up this season and probable poor head to head coverage.
- Some trees in turf and borders show signs of water stress. Shrubs and groundcovers also are showing water stress as no run times were set for these zones.

The Irrigation Audit on August 13, 2010 was done to determine the precipitation rate (how much water is being applied across the ground) and the distribution uniformity (D.U. - how evenly water is being applied). The D.U. for the area audited is 46% with water being applied at approximately 2.25" per week. This is about twice as much as the turf needs. The standard D.U. for rotary sprinklers is between 70-75%, but there are major design issues interfering with what was probably not the best system initially, and distribution uniformity has suffered.

The Park's function has changed over the years and now includes added play areas and hardscape. However, the sprinklers' locations have mostly remained unchanged. This means large areas of hardscape are being watered at the same rate as the turf with major run-off occurring. Trees have been added and some are suffering— again due to design issues and no dedicated valves for trees. There are areas being overwatered and others dry and brown. Increasing the water run times will not always "green up" the brown areas. If a sprinklers' output cannot physically reach an area due to design flaws or low pressure, running the valve longer does not solve the problem.

Even though the water use at Sunrise-Loomis Park is below industry standards for watering², the system can operate much more efficiently by following the recommendations below made by Landscape Liaisons and the Placer County Water Agency.

The recommendations below are all designed to save water. As a result, the savings that will accrue from these improvements overall should save more money than the cost of those

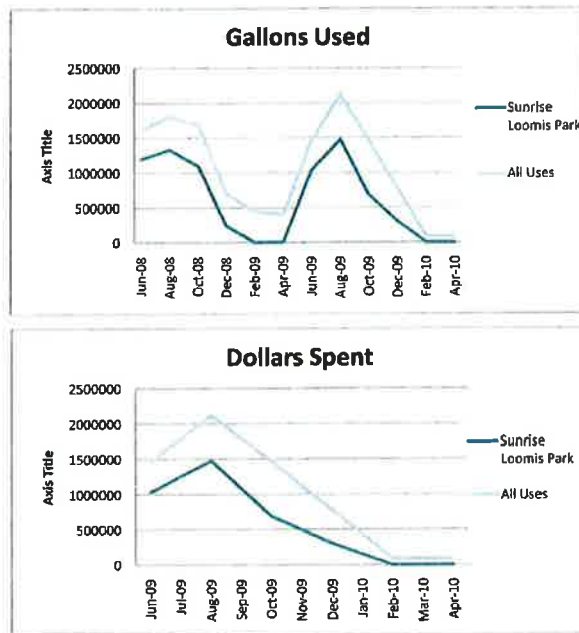
² The Water Efficient Landscape Ordinance water budget allowance

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improvements. As a result, the Town could use its existing budget line item for watering the park to make these improvements.

Placer County Water Agency (PCWA) and Vicky Bartish of Landscape Liaisons, provided a free site inspection of the irrigation systems at the park and made detailed recommendations.

**Town of Loomis
Water Usage - Sunrise Loomis Park**



Low Impact Development (LID)³

LID is an approach to land development (or re-development) that works with nature to manage stormwater as close to its source as possible. LID employs principles such as preserving and recreating natural landscape features, minimizing impervious surfaces to create functional and appealing site drainage that treats stormwater as a resource rather than a waste product. There are many practices that have been used to adhere to these principles such as bioretention facilities, rain gardens, vegetated rooftops, rain barrels, and permeable pavements. By implementing LID principles and practices, water can be managed in a way that reduces the impact of built areas and promotes the natural movement of water within an ecosystem or watershed. Applied on a broad scale, LID can maintain or restore a watershed's hydrologic and ecological functions. LID has been characterized as a sustainable stormwater practice by the Water Environment Research Foundation and others. LID can be applied to new development, redevelopment, or as retrofits to existing development. LID has been adapted to a range of land uses from high-density ultra-urban settings to low density development.

LID and Green Infrastructure

"Green infrastructure" is a relatively new and flexible term, and it has been used differently in different contexts. However, for the purposes of Environmental Protection Agency's (EPA) efforts to implement the Green Infrastructure Statement of Intent, EPA intends the term "green infrastructure" to generally refer to systems and practices that use or mimic natural processes to

³

Source: <http://www.epa.gov/owow/nps/lid/index.html>

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infiltrate, evapotranspire (the return of water to the atmosphere either through evaporation or by plants), or reuse stormwater or runoff on the site where it is generated. Green infrastructure can be used at a wide range of landscape scales in place of, or in addition to, more traditional (piped, concrete channels etc) stormwater control elements .

To learn more about how EPA is promoting green infrastructure to manage wet weather impacts in urban areas, visit EPA's Green Infrastructure Page and read EPA's 2008 Action Strategy for green infrastructure.

Recommendations

1. **Low Impact Development (LID)** - Implement Lid Standards For All Development, Including With Permits For Single-Family Homes.
2. **Sunrise Park**
 - Assess and then schedule watering calculated to address actual plant water needs. Make monthly adjustments based on forecast weather conditions until new ET satellite controller is installed.
 - Adjust and repair broken nozzles.
 - Adjust arcs and raise heads that have sunk into the turf.
 - Replace all spray heads with Hunter MP Rotator heads to save significant amounts of water and money.
 - Replace controller with “smart” ET controller that are tied in to weather satellites that monitor temperature, rainfall and humidity and water accordingly, automatically, and can save 20-40%.
 - Replace spray heads with Netafim-type system (in-line drip emitters installed sub-surface or on the surface, under bark mulch) for shrub areas. In-line drip emitters eliminate overspray, runoff, improves distribution for shrubs and flowers, and cut down on weeds. Water usage in these areas could be cut by ~50% and water vaporization eliminated with the use of in-line drip emitters.
 - Limit the density of plants in a hydro-zone to cut water use. High water-use and low-water use plants on same valve assures less than desirable irrigation (plants get either too much or not enough.). Break out irrigation lines to have trees and shrubs on separate valves from lawn areas.
 - Spread organic mulch on bare soil areas to reduce water evaporation from the soil and plants, improve soil structure, provide organic matter to the soil, provide a slow release of nutrients, and prevent run-off and erosion.
 - Regularly schedule aeration and application of compost to turf areas. This is a low tech approach that improves the soil’s water-holding capabilities, adds organic material for increased root formation and stronger, thicker turf. This practice reduces watering times and weeds, as well as fertilizer and pre-emergent applications required.
 - Use a mulching blade for mowing to return nutrients to the soil.
 - Perform routine system checks every week (ideally after mowing) to identify costly irrigation leaks and ensure healthy plant growth. Observe for plant stress and be aware that excess water will damage or kill plant roots quicker than under-watering.
 - Set a goal of 20% reduction in water use by 2012.
 - Replace unnecessary turf areas at the park. A strip along the west side could be removed, and appropriate ground cover could be planted. Consider another alternative to lawn for the picnic area to the east of the basketball court as it is a difficult area to water efficiently. Replace turf around the picnic table with “playground fiber” mulch and remove sprinklers. Replace unused turf areas with low water use plants.

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- The sports court area's sprinklers have not been altered since the turf was removed and consequently there is major overspray and run-off onto the court. This constant water on the surface has caused cracking and deterioration of the asphalt.
 - Find out what chemicals the lawn service is using, and if they are necessary. Decrease chemical use as much as possible to ensure no toxic runoff.
 - Arrange pilot program to improve the turf at the park with natural soil conditioners instead of chemicals.
3. **Downtown Park** - Delete lawn area next to the depot. As it's on a slope, that wastes water, and seems to be of little practical use.
 4. **Rain gardens** - Create simple rain gardens and water harvesting in common areas to hold and gradually disperse rainwater so that it doesn't create more runoff. Demonstrate at Downtown Park.

Web sites for further info:

www.water.ca.gov/wateruseefficiency/landscapeordinance/

www.bsc.ca.gov/CALGreen/

<http://www.greenbuildingadvisor.com/blogs/dept/green-building-news/gearing-california-s-new-green-building-code>

www.pcwa.net

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RECYCLING AND WASTE REDUCTION RECOMMENDATIONS

Background

1. CalRecycle AB939 Good Faith Effort - CalRecycle is monitoring what Loomis is doing to comply with not meeting 50% waste diversion goal in 2007. Need to provide good faith effort to implement policies and programs to comply. Town is subject to \$10,000 per day penalties for not proceeding in good faith.
2. Grand Jury Report 2009 - Questioned the continued use of blue bags for recycling, citing program failures. Town of Loomis said that it would respond after further deliberation. Recommendations below are suggested to be adopted by Council and then notify Grand Jury of actions taken.
3. Town has accumulated \$157,000 in Town Budget from "AB939 fees" that can only be used for recycling purposes
4. AB32 Mandatory Commercial Recycling - By July 2012, businesses that generate more than 4 cy of waste and recyclables per week will be required to recycle, either on their own, or through a recycling program set up by local governments.

Recommendations

1. Develop pilot program for Recology, the Town's franchise refuse hauler, to promote a "Super Recycler" service and rate to all Loomis residents beginning in January 2011. Super Recycler service would include 32-gallon garbage service (in customer provided can) with free blue bags for recycling and green bin for yard trimmings in all "urban areas" of Loomis. Evaluate response to pilot program in April 2011 and consider any adjustments needed to garbage rates that need to be adopted in June 2011 to keep providing the Super Recycler service and rate. If there is sufficient interest, consider offering a Recology provided 32-gallon garbage cart that can be emptied by their automated collection trucks.
2. Improve existing blue bag residential recycling program by:
 - a. Including labels with distribution of blue bags that includes Recology contact info and website URL with instructions on how to participate and what can be recycled. Phase out blue bags to labeled clear bags that can also be recycled.
 - b. Ask Recology to develop and distribute a new recycling flyer that includes information about blue bags, green bins and Super Recycler 32-gallon can option
 - c. Include instructions on how to participate and what can be recycled on Town website and links to other recycling websites
 - d. Work with Placer County MRF operator to ensure blue bag materials are sorted separately. Ask them to keep these clean materials separate from other materials sorted from the mixed waste stream, to sell them as higher quality materials at higher prices. These blue bag materials could be combined with materials collected at the MRF drop-off center, which should also be much cleaner than the rest of the materials sorted at the MRF.
3. Promote commercial recycling options in Loomis. Include information about options for recycling at businesses, schools and other institutions in Loomis on Town website. Help businesses comply with mandatory recycling requirement of AB32 by providing information and educational programs. Provide grants or matching loans (covering half the cost, if businesses will cover other half through savings) to finance recycling equipment for businesses and institutions (e.g. on-site composters or corrugated compactors) using some of the Town AB939 funds. Target recycling services needed in the vicinity of the Downtown Park as a priority, to decrease the frequency that trucks must service garbage and recycling areas behind businesses.
4. Promote existing rural chipping program through Fire District. Currently it costs \$40 per visit for mobile chipper to grind brush and leave or take away chips. Work with Recology to

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offer new rural chipping program with tree pruning services. Recology could arrange with tree pruning services for them to be routed to customers that put yard trimmings out at the curb (or a designated accessible location on their property) for the tree pruning services to chip that material. As with the Fire District program, they could either leave the chips, or take them away, at the customer's preference. Recology would be in charge of arranging for this service, receiving customer phone calls, dispatching service, and follow-up to make sure the service was provided. Recology could establish a rate for this service that would hopefully be less than the Fire District service.

5. Organization, Marketing, Education and Teamwork - Develop a separate URL that is linked from the Town website to something like www.CleanLoomis.com, to provide a central location for recycling and cleanup information. Renew the schools outreach program that had been provided by CIMBL (see Sustainability Education discussion below). Develop a better regional recycling message, instead of "recycling and disposal made easy" that promotes putting all recyclables into the garbage cart to be sorted by someone else at the materials recovery facility (which is the message at www.onebigbin.com). Build on other messages at www.onebigbin.com that are good about reducing (not creating waste in the first place) and reusing (better for the environment and easy on the pocketbook). Consider "BeyondOneBigBin.com" as a new message to focus on Reducing and Reusing, but including information about blue bag and green bin recycling programs for those communities that still offer those services to highlight those opportunities for their residents and businesses to save money and be more sustainable. At a minimum, request all Councils and the Board of Supervisors in South Placer County to approve whatever the regional message is before continuing to advertise it so it incorporates the best ideas from all local elected officials in the region.
6. Food Scraps -
 - a. Promote home backyard composting and on-site composting and Life Labs at all local schools
 - b. Setup a commercial collection pilot with restaurants. Promote use of food banks by all local restaurants for leftovers. Explore if restaurants would like food scraps collected separately to go to a regional digester and composting program. If so, ask Town Council to indicate interest to City of Roseville in participating in a digester program at the Roseville wastewater treatment plant
 - c. Work with Western Placer Waste Management Authority, Solid Waste Local Task Force and Placer County MRF operators to explore upgrading composting at Placer County MRF to include food scraps. Arrange tour of local food scrap composting programs as a first step.
 - d. Explore collecting food scraps from residents with yard trimmings in green carts in Loomis after above commercial initiatives work out details with composting facilities.
7. Ask Council to adopt policy to encourage recycling of Construction & Demolition (C&D) debris and provide technical assistance to major generators. Include information on Town website about local options for recycling C&D debris, and provide list of those resources to anyone that requests a building or grading permit.
8. Downtown Park - Include "help yourself" recycling locations and signs on top of trash containers
9. Focus on reuse, recycling and composting at spring and fall cleanups. Provide additional containers for different types of materials to be diverted from landfilling. Invite Goodwill or other reuse operation to have a trailer at events for reusable clothing, furniture, and other reusables. Invite ReStore to have a trailer for collecting used building materials.

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10. Join the California Product Stewardship Council to work together with other local governments to develop new policies and programs to address toxic and difficult to recycle materials and products that are discarded.

Web sites for further info:

<http://www.ciwmb.ca.gov/LGLibrary/Innovations/>

<http://www.earthresource.org/zerowaste.html>

<http://www.zwia.org/standards.html>

www.calpsc.org.

<http://www.cleanproduction.org/AAbase/default.htm>

<http://www.epa.gov/jtr/econ/rei-rw/rei-rw.htm>

http://money.cnn.com/magazines/fortune/fortune_archive/2007/03/19/8402369/index.htm

www.calrecycle.ca.gov

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GREEN BUILDINGS, GREEN BUSINESSES & GREEN JOBS RECOMMENDATIONS

Background

In the Placer County 2009 Economic Development Board Roadmap⁴, the County adopted the following Sustainable Economic Development objective:

“Support the development of a sustainable Placer County economy that stewards the health of our human communities and natural resources and protects and enhances the quality of life for future generations and aligns with the California Strategic Growth Council.”

The County Plan also detailed the following actions to support that objective:

1. Action — Support efforts to reduce the dependency of the local economy on goods and services imported from outside the region and that may be supplied locally.
2. Expand green commerce jobs and the business opportunity sector of the local economy, including major opportunities in the Sustainable Energy Sector.
3. Action — Consider pursuing integrated sustainable economic development strategies that include social interests that are essential to sustainable communities, e.g. health, education, and arts and culture, grass roots community organizing.

Recommendations

1. Encourage businesses to join the Placer County Green Business Program, organized with Sacramento Area Sustainable Business Program of the Sacramento Business Environmental Resource Center.
2. Consider Loomis as a Sustainable Economic Development Zone and explore, as part of continuing sustainability efforts:
 - a. Developing infrastructure financing tools, including for natural resource amenities. Engage County and regional economic development support for policies and financial assistance for sustainability.
 - b. Opportunities for expedited land use and environmental review as allowed by law for sustainable projects
 - c. Programmatic environmental mitigation standards in the form of resource conservation programs that implement or further sustainability objectives.
 - d.
 - e. Identify local sustainable, green and clean businesses.
 - f. Develop explicit on-going agency and citizen collaboration mechanisms, to build community around sustainable economic interests.

⁴ Source: Placer County 2009 Economic Development Board Roadmap, Pages 30-31, http://www.placer.ca.gov/~media/ceo/ecd/documents/Final_2009_EconomicDevelopmentRoadmap_033010.ashx

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- g. Provide incentives and other support for innovative community design approaches including: sustainable design, low impact development techniques, green building, natural amenities, and mixed uses.

2. Local to Local and Local to Regional Market Development. Coordinate with PlacerSustain to include Loomis businesses that provide green goods and services in a “Green Commerce Directory” and a Buy Local Directory. Use all media, but especially focus on Internet tools for connecting local and regional consumers with local green goods and services vendors. Businesses with BERCC certifications would be particularly promoted.

3. Multi-Purpose Community Centers. Continue Downtown Plan development and implementation to create one or more connected Community Centers (Building on Blue Goose, Train Depot, and High Hand facilities). Include both private and publicly owned facilities as performing arts venues, open air markets and other facilities that support sustainability. These centers should bring together food preparation, art, produce, locally manufactured goods, entertainment, culture (e.g., theater, music, ethnic events), and provide an access point for the collection and dissemination of information related to sustainability. These centers could be very important to the development of relationships between local vendors and consumers, e.g. participation in Community Supported Agricultural Coops and Local Manufacturers.

4. Sustainable Development Education and Training Center/Institute. Work with other stakeholders to promote a local center for sustainability related education and professional training (affiliated with Sierra College) that could include a sustainability related career and job center.

5. Food/Nutrition/Health Initiative Campaign. Work with other stakeholders to participate in a "Healthy Placer" Initiative—a local sustainable health initiative. Bring together schools, health providers, medical insurers, restaurants, community organizations, nutrition training, and citizens in a health collaboration with access to locally grown food and restaurants that are interested in meeting Healthy Placer standards. This initiative directly stimulates local growers, local distribution and marketing, restaurants, and related businesses. Work to create a publically available network of health resources that would include local businesses and services, and be available to Loomis residents. Consider the future adoption of a Loomis Health Initiative.

6. Energy Independence Collaborative. Work with stakeholders to create an energy independence collaborative that provides access to information, public and private energy conservation and renewable energy programs, sustainable energy vendors, rehab contractors, and service providers, educational resources; and that is open to Loomis residents.

7. Economic Development Collaborative. Work with the Placer County Economic Development Board to participate in the Board’s recently recommended Economic

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Development Professionals Stakeholders Network that would include the business community and interested local citizens.

8. Sustainable Economic Development Grants Network. Work with the Placer County Economic Development Board to participate in the creation of a grants networking group with web collaboration tools: grant opportunities blog, discussion forum, news feed, grant resources information, grant applications library, periodic meetings. Bring together grant expertise from governmental, non-profit sources, and community sources.

9. New Business Friendly Climate. Work with other stakeholders to develop social/educational/training/housing/cultural “infrastructure” strategies to create the type of “climate” that would support new sustainable, green and clean businesses to locate in the Loomis area.

10. Local Food Market Development. Work with growers, local stakeholders, and other interested parties to assess the local food market potential in Loomis; and develop specific strategies for developing this market including an expanded Blue Goose open air market, a food buyer’s cooperative, and/or a central distribution and marketing function (up to and including a Food Coop).

Web sites for further info:

www.SacramentoSustainableBusiness.org

http://www.usgbc.org/AboutUs/mission_facts.asp

http://www.sfenvironment.org/our_policies/overview.html?ssi=15

<http://www.cabrightspot.com/>

<http://thepoliticalchannel.com/kevin-johnson.php>

<http://www.recyclingworkscampaign.org/>

<http://www.greenjobsconference.org/>

<http://www.workforceinfocouncil.org/Documents/WICGreenJobsStudyGroupReport-2009-10-01t.pdf>

http://www.cawrecycles.org/whats_new/recycling_news/apr19_AB_32_job_growth

<http://www.workforceinfocouncil.org/GreenJobs.asp>

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SUSTAINABILITY EDUCATION RECOMMENDATIONS

Recommendations

1. Expand sustainability practice awareness within Del Oro High School through existing clubs (e.g., FFA, Earth Club, Key Club, or Interact Club) or creation of a sister Club to Sierra College ECOS. To create a new club contact Mr. Terry Baker, (916) 652-7243 ext. 1130, tbarker@puhsd.k12.ca.us
2. Encourage Sustainability Education news stories on DOTV Multimedia Production by providing a list of subjects and mentors to the class coordinator. DOTV airs twice a week. On Tuesdays the show is geared towards sports review and preview, and on Fridays, the show runs specials on schoolwide activities and upcoming events.
3. Create a Green Schools competition through out the Loomis School District, educating and measuring improvements in sustainable practices within the school and students families as a collaborative PTA project.
4. Replay the Sierra College Sustainability Forum either live or recorded at the Loomis Train Depot to encourage intergenerational citizen discussion.
5. Expand the Loomis Town website calendar to include events outside the room schedule at the Loomis Train Station to include sustainability education within the Town limits that may be taking place at churches, library, schools or other public buildings.

Web sites for further info:

<http://www.deloroclubs.com/>

<http://sites.google.com/site/eagleclawproductions2/dotv2008-2009>

http://www.loomis-usd.k12.ca.us/apps/news/show_news.jsp?REC_ID=147237&id=0

<http://placersustain.org/community/content/sierra-college-sustainability-forum>

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IMPLEMENTATION PLAN FOR TASK FORCE RECOMMENDATIONS

1. **Sustainable Loomis** - Continue working with members and advisors of Loomis Green Ribbon Task Force as a citizens committee “Sustainable Loomis” to promote sustainability in Loomis. This would not be staffed by the Town, but would be strictly a volunteer effort that the Town supports only through use of meeting spaces as needed. Integrate this as a part of the overall county-wide campaign of PlacerSustain and involve organizations and individuals that are interested in creating a sustainable future for Loomis.
2. **Green Ribbon Task Force Recommendations** - Sustainable Loomis prioritize how and when proposed actions in the Task Force Report should move forward for action by Council, Planning Commission, Park Recreation and Open Space Committee and other groups interested in sustainability.
3. **Sustainability Plans.** Sustainable Loomis support the efforts of local businesses, institutions, organizations and individuals to formulate their own individual sustainability action plans to help implement the recommendations of the Green Ribbon Task Force Report.
4. **Local Government Sustainability.** Town work with other local government agencies to collaborate on sustainability matters of mutual interest, and pursue grants together to help fund those initiatives and sustainability plan for communities in western Placer County. Support implementation of Greenwise Sacramento policies and programs.
5. **Tell the Story.** Sustainable Loomis document what people and businesses in the Loomis area are doing to make a sustainable future.

Web sites for further info:

www.placersustain.org

<http://groups.yahoo.com/group/SustainableLoomis/>

www.valleyvision.org

www.ecosacramento.net

www.greenwise.sacramento.org

<http://www.greenwisesacramento.org/mayor-gavin-newsom-1-of-2-8-17-2010>

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ATTACHMENT A - CONTRIBUTORS TO GREEN RIBBON TASK FORCE REPORT

MEMBERS:

1st Name	Last Name	Affiliation
Sue	Bordelon Flanagan	Placer Sustain
Jeffrey	Bordelon	Placer Sustain
Gary	Hayworth	Solar Universe
Gary	Liss	Mayor, Loomis
Michael	Littlejohn	
Vic	Markey	Loomis Realty
Quincy	McCourt	The Green Tool Belt
Dale	McCoy	A Pet's World
Pat	Miller	
Annette	Nylander	Big Horse Works
Tim	Raibley	Simply Portraits
Janet	Thew	Chair, Loomis Planning Commission

ADVISORS:

Vicky	Bartish	Landscape Liaisons
Perry	Beck	Loomis Town Manager
Audra	Davison	Placer County Water Agency
Darrell	Johnson	Pacific Gas & Electric Company
Russ	Kelley	Loomis Town Council
Kerry	Wicker	CalRecycle
Jenine	Windeshausen	Placer County Treasurer