



REDUCING EMISSIONS WITH TREES AND ENERGY EFFICIENT STREETLIGHTS

Trees and improved streetlights will provide significant environmental and

social benefits to the City of San José. The City's community forest comprises trees on streets, in parks, and on private property. A single tree sequesters about 0.035 metric tons of carbon over a 10-year period. Planting 100,000 additional trees will result in the sequestration of 3,550 metric tons of CO₂ over 10 years. Trees also provide shade, reduce air conditioning bills, filter air pollutants, and boost property values.

Replacing all 62,000 of San José's streetlights with smart, energy-efficient LED lights will help reduce energy and operational costs as well as associated greenhouse gas emissions. Additionally dimming the lights (an average of 30% for half the night), will protect the night sky while reducing energy consumption further.

WHAT WE ARE DOING

-  Documenting the size, health and species of the city's street trees by conducting a comprehensive inventory.
-  Converting more of our streetlights to "Smart" LED streetlights to significantly reduce energy use and costs while protecting astronomical research.
-  Working with the Department of Energy's Municipal Solid-State Street Lighting Consortium, the streetlight industry and other stakeholders to accelerate the development and adoption of Smart LED streetlights.
-  Collaborating with PG&E on a pilot billing program for adaptive LED streetlights.

GET INVOLVED

-  Plant a street or garden tree to save energy, sequester carbon, reduce runoff and increase neighborhood property values.
-  Continue proper tree care and maintenance.
-  Volunteer with Our City Forest at www.OurCityForest.org.

ABOUT THE GREEN VISION

The San José Green Vision, a 15-year plan adopted in 2007, charts ambitious goals for clean tech jobs, energy use reduction, renewable energy, green building, waste reduction, water reuse, sustainable development, clean fleet, trees, zero emission streetlights and interconnected trails. The plan is designed to lead us into a future of economic growth, environmental sustainability and an enhanced quality of life for our community.

Learn more: <http://greenvision.sanjoseca.gov/>

GOAL

Plant 100,000 New Trees and Replace 100% of Streetlights with Smart, Zero Emission Lighting

HIGHLIGHTS

- Our City Forest, a key partner, is offering trees at nominal cost for schools, parks, and homeowners for street and private tree planting locations
- In 2012, the City installed 2,200 smart LED streetlights. 570 lights will be installed in 2013 using CDBG funds. Another 1,100 lights will likely be retrofitted as part of public and private projects over the next several years. In total, 4,300 LED lights are planned for installation, representing approximately 6% of the City's streetlights
- The California Public Utility Commission approved a dimmable streetlight tariff pilot proposed by PG&E that the City helped draft; by participating in the pilot, the City will be able to capture savings from dimming its lights



CONTACT INFO:

For more information on trees, contact Ralph Mize at (408) 794-1915 or arborist@sanjoseca.gov

For more information on streetlights, contact Laura Stuchinsky at (408) 975-3226 or laura.stuchinsky@sanjoseca.gov



GREEN VISION GOALS

BY THE YEAR 2022:

-  1. Create 25,000 Clean Tech jobs as the World Center of Clean Tech Innovation
-  2. Reduce per capita energy use by 50 percent
-  3. Receive 100 percent of our electrical power from clean renewable sources
-  4. Build or retrofit 50 million square feet of green buildings
-  5. Divert 100 percent of the waste from our landfill and convert waste to energy
-  6. Recycle or beneficially reuse 100 percent of our wastewater (100 million gallons per day)
-  7. Adopt a General Plan with measurable standards for sustainable development
-  8. Ensure that 100 percent of public fleet vehicles run on alternative fuels
-  9. Plant 100,000 new trees and replace 100 percent of our streetlights with smart, zeroemission lighting
-  10. Create 100 miles of interconnected trails



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