

Sustainable Sunnyvale
Where We Are / Where We're Going

REV DRAFT

ENERGY REDUCTION AND ALTERNATIVE FUELS

Lead: Department of Parks and Recreation

Facility Services Goal: SDP 76907 - Monitor utility usage in City buildings and implement comprehensive methods and products to conserve energy and building water resources

Current Services & Practices

Facility Services

- Provide Energy Management Systems for remote temperature control of HVAC systems through the administration of Capital Improvement Projects (CIP) to City buildings
- Provide the latest energy conscious technology for HVAC related components when replacing equipment
- Utilize recycled carpet and other recycled materials in City buildings whenever feasible
- Participate in PG&E's demand response program
- Provide occupancy light sensors in large City buildings
- Keep temperatures in City buildings at 68 degrees F in the Winter months, and 74 degrees F in the Summer months
- Perform de-lamping services in City buildings where appropriate to save energy
- Monitor Utility usage in City buildings
- Provide energy saving T5 fluorescent lamp replacement and LED exit lights in City buildings
- Utilize environmentally friendly Green Seal janitorial projects
- Install Cool Roofs on City buildings as replacement occurs where applicable
- Experiment with low flow and waterless urinals and other low flow appliances
- Upon replacement of faucets and flushing mechanisms, install auto/flushers and auto/faucets in City buildings where possible

Fleet Services

- Replacement of fuel efficient alternative powered equipment reviewed and updated annually
- Own and maintain 39 alternative fueled vehicles

Bio-diesel program:

- Pilot program underway to determine if bio-diesel is applicable in City fleet
- Currently providing bio-diesel to diesel powered park maintenance equipment at muni golf course

Services / Policies in Development

Facility Services

- CO2 Reduction Emissions Project
- Installation of Solar Panels at Fire Station 2
- Installation of Energy Management Systems for building HVAC systems
- Installation of new HVAC System in Public Safety
- Upgrade Columbia Gym Lighting to Fluorescent
- Upgrade Community Center Dance Studio Lighting to Fluorescent

Fleet Services

- Prepare remaining diesel tanks for 5% bio-diesel use
- Convert existing diesel powered units to 5% bio-diesel for all on-road heavy equipment
- Determine potential uses of hybrids in mid-size and large specialty trucks

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Into the Future - DRAFT

- Best practices for review
- Potential items for Study Issue papers

Facility Services

Policy

- Explore City policy on LEED Building Certification for city-owned buildings – STUDY ISSUE PAPER
 - New construction
 - Current facilities

Fleet Services

Operations

- Upgrade 5% bio-diesel to 20% bio-diesel
- Purchase and install infrastructure for plug-in hybrids when available
- Explore additional alternative fuels such as hydrogen fuel cells, advanced battery electric vehicles, and E85 ethanol, including refueling infrastructure.