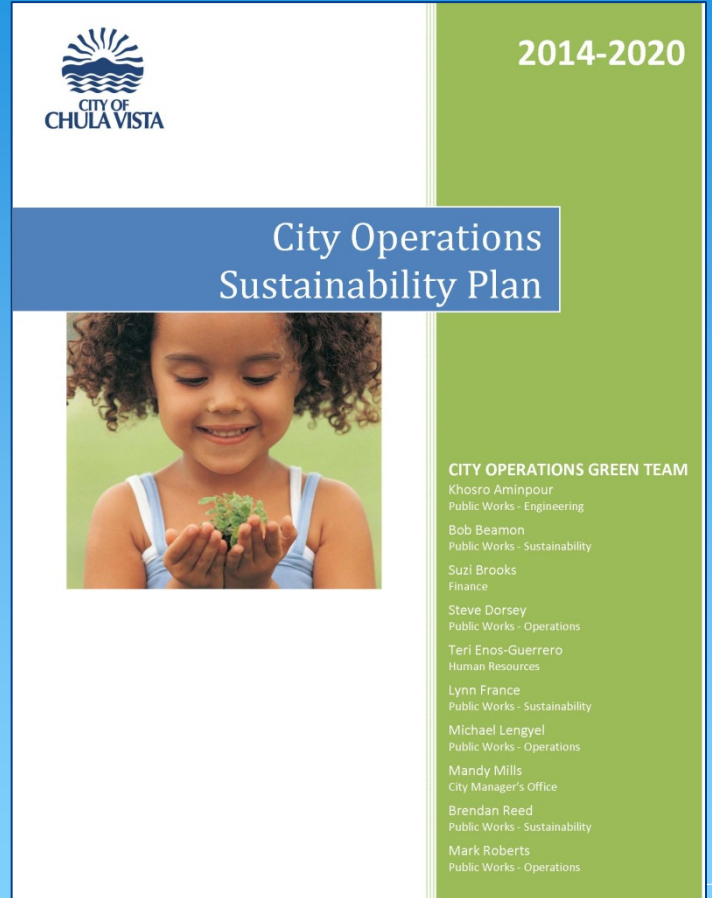




CITY OPERATIONS SUSTAINABILITY PLAN UPDATE 2016



Clean Air, Clean Water, & Clean Land

City Operations Green Team



Team Member	Department	Role
Lynn France	Economic Development – Office of Sustainability	Team Lead
Barbara Locci	Economic Development – Office of Sustainability	Team Lead
Alejandro Ruiz- Velasco	Economic Development – Office of Sustainability city energy and water	Member
Boushra Salem	PW – Storm Water	Member
Suzi Brooks	Finance – Purchasing	Member
Steve Dorsey	PW – Fleet Manager	Member
Steve Knapp	PW – Ops. Administration	Member

Sustainability Definition



The three Ps = **PEOPLE, PLANET, AND PROSPERITY**

At an organizational level, “Sustainability” is defined as the City’s ability to **provide high quality infrastructure, services, and programs** in a manner, which **balances the social, economic, and environmental needs** of current and future generations.

Sustainability Vision & Mission



Through a continuous improvement framework, the City of Chula Vista strives to “lead by example” in **integrating innovative sustainable practices throughout its operations** helping to ensure clean air, water, and land in the community.

The Business Case



- * Lower utility costs
- * Lower fuel costs
- * Lower maintenance costs
- * Healthier, more comfortable workspaces
- * Happier, more productive employees
- * Lower GHG emissions
- * And...

CLEAN AIR, CLEAN WATER, & CLEAN LAND!



City Operations Sustainability Plan



* Creates goals & strategies in 7 focus areas...

Energy Use

Water Use

Green Purchasing

Waste Management

Pollution Prevention

Transportation

Green Buildings & Infrastructure

The image is a screenshot of a document page from the City of Chula Vista, titled "6. TRANSPORTATION". The page is divided into several sections: "EXISTING POLICIES & DOCUMENTS", "FUNDING OPPORTUNITIES", "6. TRANSPORTATION", "Strategies:", and "Performance Metrics:". The "EXISTING POLICIES & DOCUMENTS" section includes two sub-sections: "100% Clean Fleet Policy (2008 - Climate Action Plan)" and "City-Contracted Clean Fleet Policy (2008 - Climate Action Plan)". The "FUNDING OPPORTUNITIES" section lists three items: "CA Energy Commission grants", "CA Clean Vehicle Rebate Program", and "CalTrans Bike Locker Program". The "6. TRANSPORTATION" section includes a description of alternative transportation, two goals, a baseline year of 2013, partnerships with iCommute San Diego, San Diego Regional Clean Cities, and San Diego County Bicycle Coalition. The "Strategies:" section lists five numbered items. The "Performance Metrics:" section lists two metrics: "% of alternative fuel/hybrid vehicles in fleet" and "% of employees alternatively commuting (per pay period)".

EXISTING POLICIES & DOCUMENTS

100% Clean Fleet Policy (2008 - Climate Action Plan)

- All replacement vehicles purchased for the municipal fleet should be hybrid or alternative fuel.
- Factors such as the appropriateness for the vehicle task, fueling infrastructure, petroleum displacement, and the overall cost and environmental benefit must be considered prior to purchasing each replacement vehicle.

City-Contracted Clean Fleet Policy (2008 - Climate Action Plan)

- Work with fleets under City authority to influence their expanded use of hybrid and/or alternative fuels.

FUNDING OPPORTUNITIES

- CA Energy Commission grants
- CA Clean Vehicle Rebate Program
- CalTrans Bike Locker Program

6. TRANSPORTATION

Alternative transportation helps improve local air quality, reduce traffic congestion, and is typically a more cost-effective way to commute. In addition, these transportation options help reduce employee stress and improve their well-being.

Goal 1:
Transition 40% of fleet to hybrid or other alternative fuel technology by 2020.

Goal 2:
Increase the percentage of employees who are regularly using sustainable commute options to 30% by 2020.

Baseline Year: 2013
Partnerships: iCommute San Diego
San Diego Regional Clean Cities
San Diego County Bicycle Coalition

Strategies:

1. Install electric vehicle chargers for fleet use.
2. Designate preferred parking spaces for carpool/alternative fuel vehicles at all major municipal facilities.
3. Install outdoor bike lockers for employee use.
4. Initiate a pre-tax transit reimbursement program.
5. Expand the use of alternative work schedules and teleworking through supervisor and employee outreach.

Performance Metrics:

- % of alternative fuel/hybrid vehicles in fleet
- % of employees alternatively commuting (per pay period)



EXISTING POLICIES & DOCUMENTS

Municipal Building Energy Efficiency Policy (2005)

Energy Efficiency

- New buildings should maximize passive cooling and heating.
- New and renovated buildings (>4,500 sf) should be at least 20% more efficient than State code.
- Existing buildings should be retrofitted with more efficient technologies (as available).
- Only purchase EPA ENERGY STAR qualified appliances and products.

Renewable Energy

- New and renovated buildings should incorporate onsite renewable energy.
- Overall goal is to meet at least 20% of energy demand with onsite renewable energy.
- Up to 100% of purchased electricity should be renewable (if costs are equal or less than conventional electricity).

FUNDING OPPORTUNITIES

- Local Government Partnership with SDG&E and CA Public Utilities Commission
- CA Energy Commission loans
- CSCDA Sustainable Energy Bond program
- Municipal Utility Reinvestment Fund (proposed)

1. ENERGY USE

The City of Chula Vista spends approximately \$3 million annually on electricity and natural gas use at municipal facilities. Energy management efforts help to reduce these long-term utility costs and associated greenhouse gas emissions, while typically improving building performance and occupants' health and comfort.

Goal:

Reduce municipal energy use by 20% by 2020 through energy efficiency and renewable energy initiatives.

Baseline Year: 2010

Partnerships: DOE Better Buildings Challenge
EPA Green Power Partnership
SDG&E Local Government Partnership

Strategies:

1. Implement all cost-effective energy efficiency upgrades, such as the Multi-Site Lighting Upgrade project.
2. Retro-commission all municipal buildings that are greater than 20,000 square feet and more than 10 years old to improve energy performance.
3. Establish a Municipal Utility Reinvestment Fund (using previous utility cost savings) to create a revolving mechanism for funding energy improvements.
4. Purchase 100% renewable energy for the City's facilities under Direct Access contracts.
5. Transition to "Zero Net Energy" design for all new municipal facilities.

Performance Metrics:

- Annual kWh and Therm usage
- Energy use intensity (MMBTU/square foot)
- % onsite renewable energy

* Summarizes existing policies & programs

* Outlines potential funding sources

* List performance metrics

Real Results: City of Chula Vista Implementation Model

COMMUNITY SIZE

Large Suburban, population 260,000

GOAL

To achieve a 20 percent energy reduction in city buildings by 2020 based on 2010 levels

BARRIER

Lack of efficient and effective communication and collaboration among key municipal departments toward their energy goals

SOLUTION

The creation and implementation of the City Operations Sustainability Plan, a cohesive strategy to enable city efforts to coordinate and accelerate sustainability initiatives throughout city operations

OUTCOME

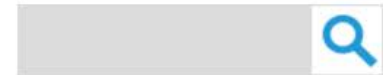
The Plan has enabled the City of Chula Vista to achieve a 24% energy reduction for an annual savings of approximately \$270,500

Implementation Model: Sustainable Operations Plan

OVERVIEW

The City of Chula Vista has been at the forefront of sustainability since rolling out its citywide recycling programs in 1993, joining the U.S. Conference of Mayors in 1997, and publishing its first [Climate Action Plan](#) in 2000. In 2014, the City Council approved the City Operations Sustainability Plan (Plan), a comprehensive sustainability action plan focused on seven key areas in its municipal operations: energy and water use, green purchasing, waste management, pollution prevention, green buildings, and infrastructure. The Plan identified more than 30 sustainability strategies, making the city the first jurisdiction in San Diego County to initiate a coordinated sustainability plan of action for municipal operations. The Plan is intended to ensure a strategic and inclusive approach to reduce municipal operating costs, improve local environmental quality, and provide a community-wide lead-by-example model.





WELCOME TO THE BETTER COMMUNITIES ALLIANCE



-
-
-
-
-

CLEAN ENERGY IS SMART BUSINESS > EXPERTS, CUSTOMIZED RESOURCES



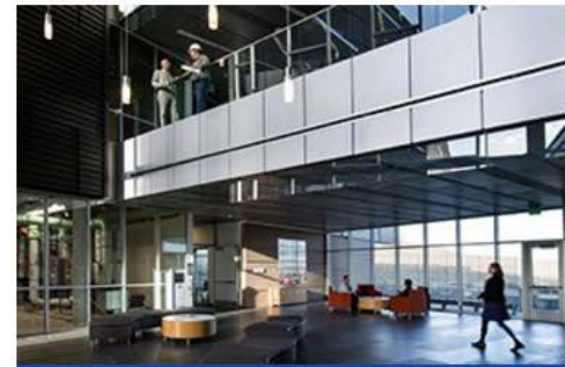
RENEWABLE ENERGY



ENERGY DATA



SUSTAINABLE TRANSPORTATION



ENERGY EFFICIENCY



Financial Funding Examples



- * Plan outlines a variety of internal and external potential funding sources per focus area...

ENERGY FUNDING OPPORTUNITIES

- Local Government Partnership with SDG&E and CA Public Utilities Commission
- CA Energy Commission loans
- CSCDA Sustainable Energy Bond program
- Municipal Utility Reinvestment Fund (Proposed)

WASTE MGMT FUNDING OPPORTUNITIES

- AB 939 fee on solid waste services
- Free service provided by Republic Services to City facilities
- CalRecycle grants

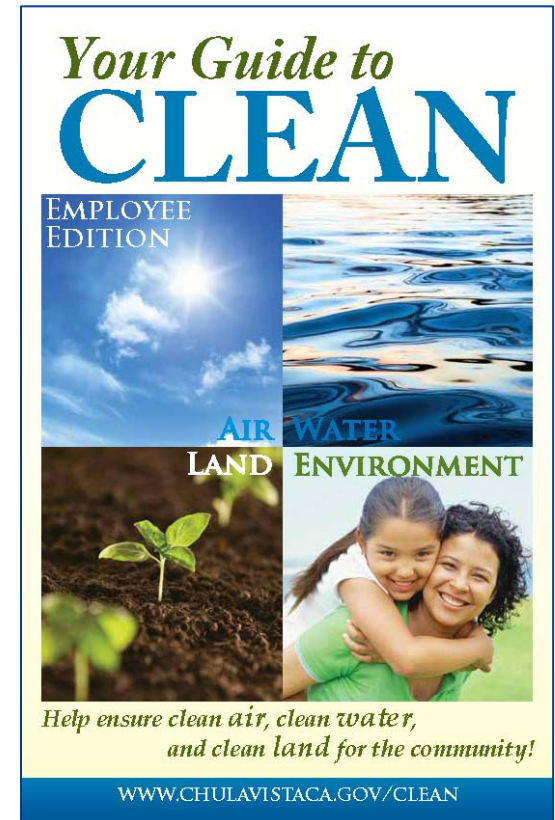
Employee Engagement & Monitoring



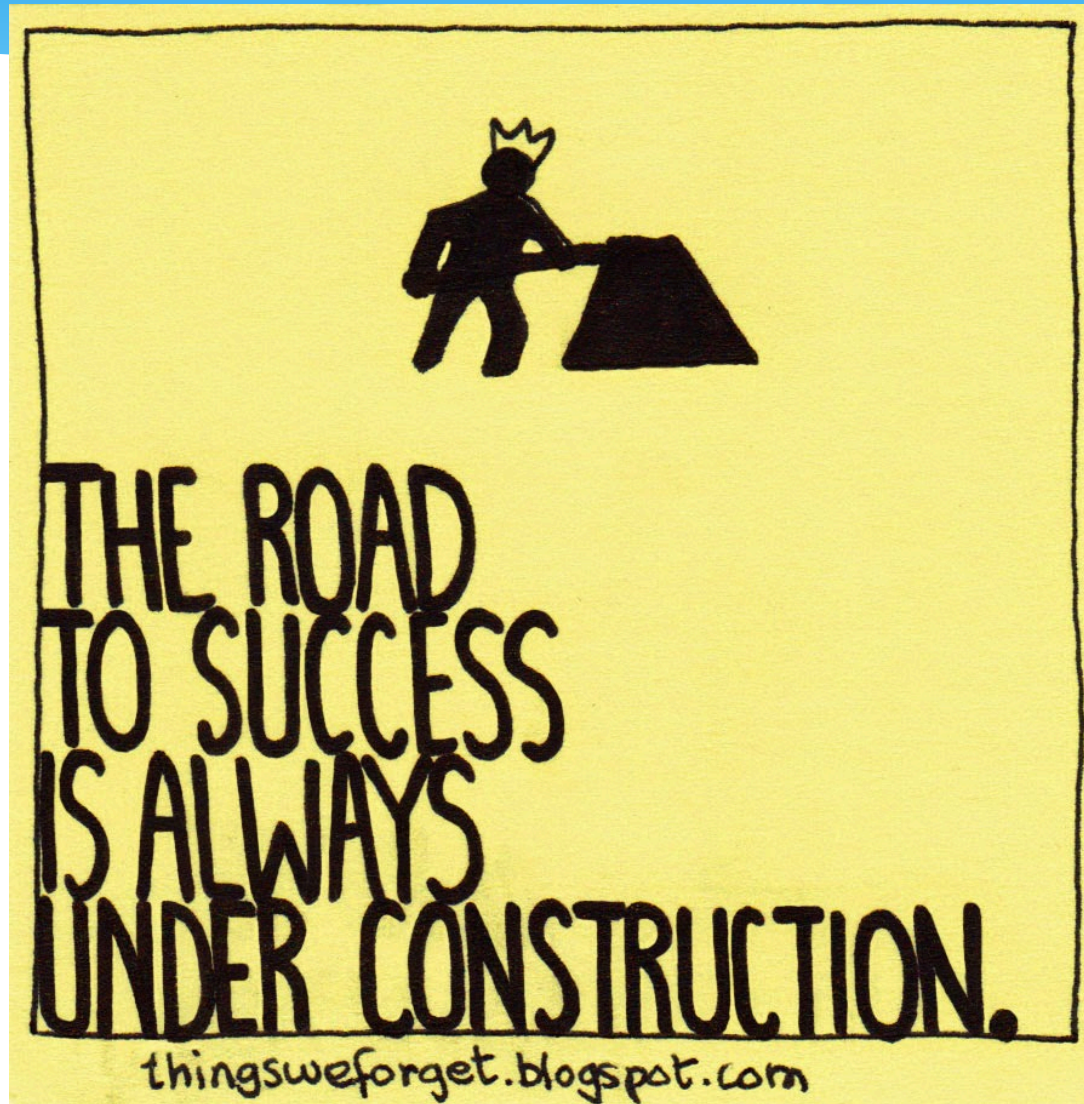
EMPLOYEE ENGAGEMENT

City leaders and employees will be frequently engaged through:

- Employee Lunch & Learns (Quarterly)
- New Hire Orientation (Ongoing)
- Green Teams (Ongoing)
- Employee Surveys (Annual)
- CLEAN Employee Award (Annual)
- Plan Progress Reports (Annual)



Where Are We On The Path to 2020?



Our Big Goals



2016 Status

- | | | |
|--|---|---|
| • Reduce energy use by 20% by 2020 | 29.6% | ✓ |
| • Reduce potable water use by 10% by 2020 | 30.1% | ✓ |
| • 80% of all office and custodial purchases are “green” by 2020 | 70% Office Depot purchases
35% custodial purchases | ✓ |
| • 75% recycling rate by 2020 | 67% | |

Our Big Goals



2016 Status

- Prevent all **non-storm water discharges** from city facilities by June 15
- Comply with **BMP requirements** and **pass inspections with a score of 80%** by 2020
- **40% of city fleet** transitioned to hybrid or alternative fuel technology
- Increase the % of employees using **sustainable commute options to 30%** by 2020



36%

10%



Our Big Goals

2016 Status

- | | |
|--|---|
| <ul style="list-style-type: none">• At least 2 existing buildings will be operated to meet enhanced green building standards by 2020 | LEED –
EBOM City
Hall 2017 |
| <ul style="list-style-type: none">• Integrate sustainable design concepts and products in infrastructure projects by 2020 using Envision tool. | Beginning
employee
training
2016 |
| <ul style="list-style-type: none">• All new buildings over 10,000 sf will be designed and constructed to meet enhanced green building¹⁵ standards | None
built yet |

Contract Information



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Clean Air, Clean¹⁶ Water, & Clean Land