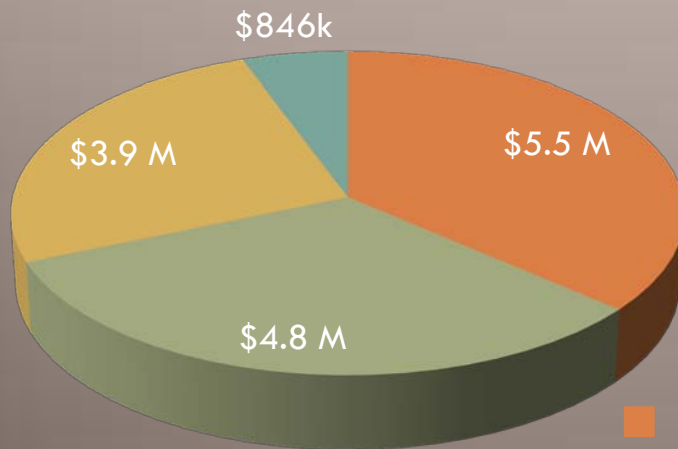


SUSTAINABLE ENERGY STRATEGY



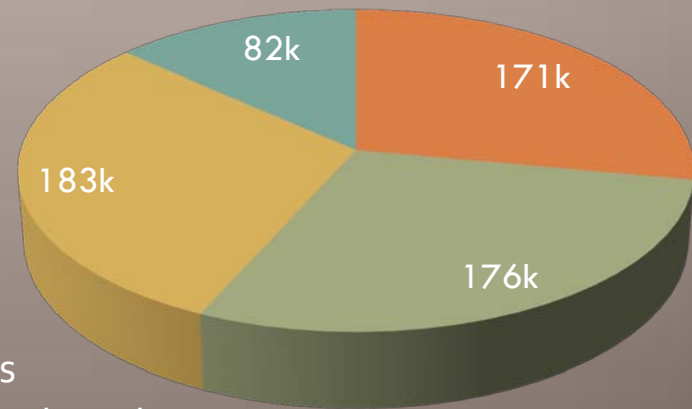
Overview

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2009 ENERGY COSTS

\$15.2 million



2009 ENERGY USAGE

614,800 MMBTU

Energy Snapshot

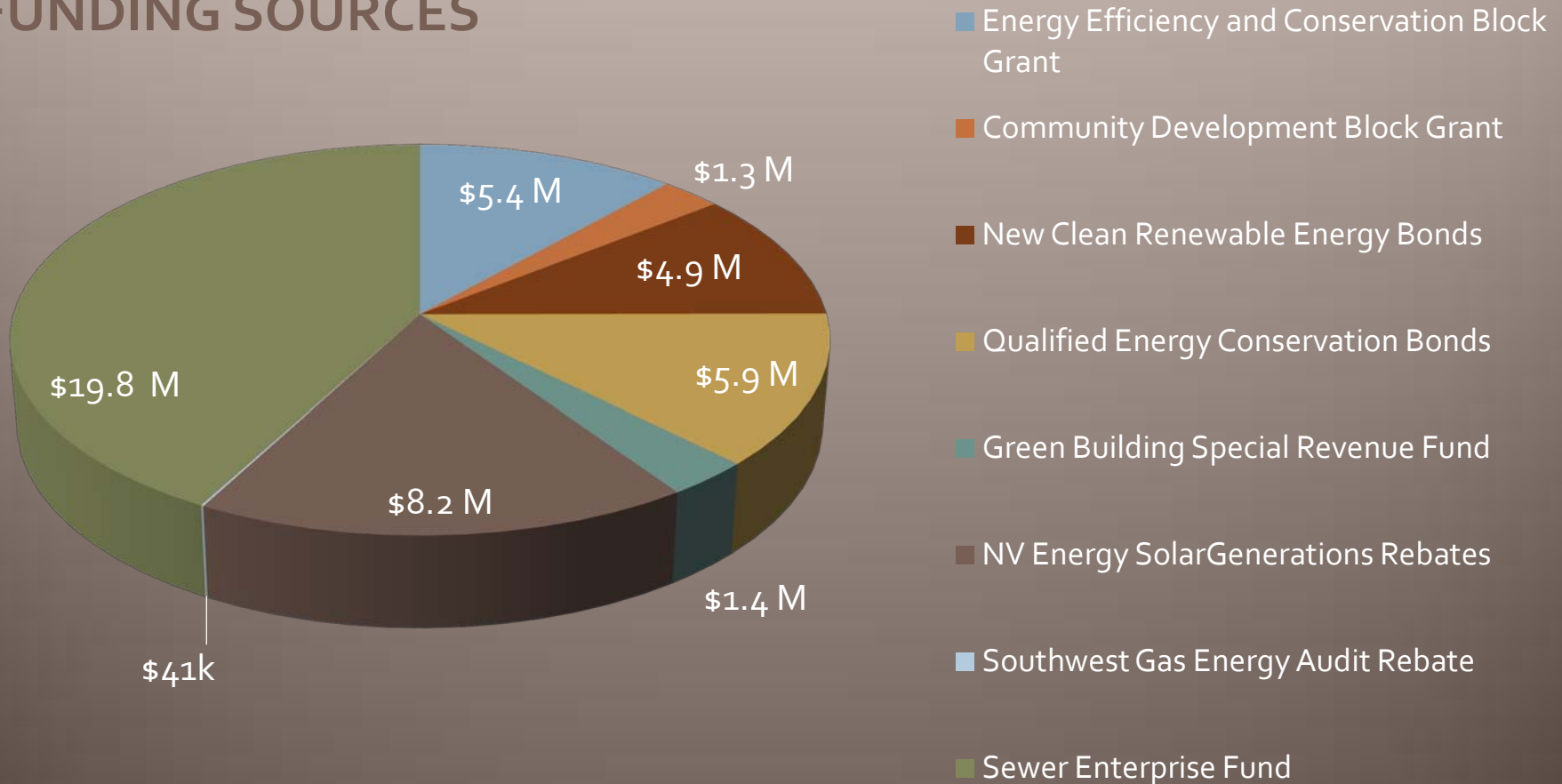
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	FY2009	FY2010 projected
Renewable Energy		
Installation	30kW solar system at Fire Station 6	4.875 MW of renewable energy installed at 11 city facilities
Generation	n/a	9.66 million kWh annually
Renewable Energy Portfolio	9.7% (purchased through utilities)	15% projected; surpassing 2011 target of 10%
Conservation/Efficiency		
Facility Retrofits	1 retrofit completed	11 retrofits planned
Streetlight Retrofits	0	10,000 lights
Energy Savings	109,719 kWh	10 million kWh annually
Overall Impacts		
Energy Purchased (Electricity + Natural Gas)	614,800 MMBTU	553,800 MMBTU (-9.9%)
Greenhouse Gas Emissions	129,404 metric tons	116,617 metric tons (-9.8%)
Annual Energy Costs (Electricity + Natural Gas)	\$15.21 million	\$13.35 million (-12.2%)

Overview

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FUNDING SOURCES



\$47 million Total Program Budget

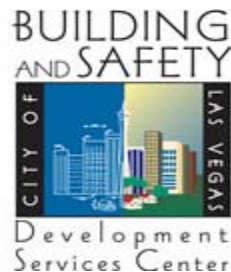
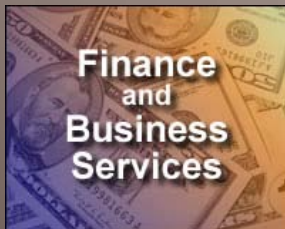
63% or \$29.6 million has been spent or placed under contract in FY2009

Where We Are Today: FY2009

Sustainable Energy Strategy Annual Report FY2009

PARTNERS IN SUCCESS

- Building and Safety
- Field Operations
- Finance and Business Services
- Neighborhood Services
- Planning and Development
- Public Works
- Information Technologies
- Leisure Services
- Office of Business Development



Where We Are Today: FY2009

Sustainable Energy Strategy Annual Report FY2009

CITY OPERATIONS

- *Sustainability Decision Making*
 - Capital projects and policies evaluated in terms of sustainable principles
- *Sustainable Purchasing Policy*
 - Considers the use and purchase of environmentally preferable products when comparable in cost and quality
- *Sustainable Contracting Policy*
 - Departments now using sustainable practices criteria consistent with Nevada Revised Statutes



Where We Are Today: FY2009

Sustainable Energy Strategy Annual Report FY2009

CITY OPERATIONS

- *Renewable Energy Investment*
 - Solar Covered Parking



Solar Covered Parking: Phase 1

Parking Spaces	849
Capacity	850 kW
GHG Reduction	1,050 tons
Cost	\$9 million
Funding Source	ARRA + NV Energy Rebates
Annual Savings	\$175,440

Where We Are Today: FY2009

Sustainable Energy Strategy Annual Report FY2009

CITY OPERATIONS

- *Renewable Energy Investment*
- Wastewater Treatment



Wastewater Treatment Facility Solar Generation

Capacity	4 MW
GHG Reduction	3,996 tons
Cost	\$19.75 M
Funding Source	Sewer Enterprise Fund
Annual Savings	\$792,000
Jobs	180 jobs

Where We Are Today: FY2009

Sustainable Energy Strategy Annual Report FY2009

CITY OPERATIONS

■ *Electricity Consumption*

■ Planned Facility Retrofits

- All American Park
- Atrium Building
- Baker Park Pool
- Detention Center Housing Units 1-4 and Training Facility (*retrofit completed*)
- East Las Vegas Senior Center
- Field Operations West Service Center
- Fire Station #7
- Fire Station #41
- Freedom Park Pool
- Lieburn Senior Center
- Mirabelli Community Center
- Natural History Museum

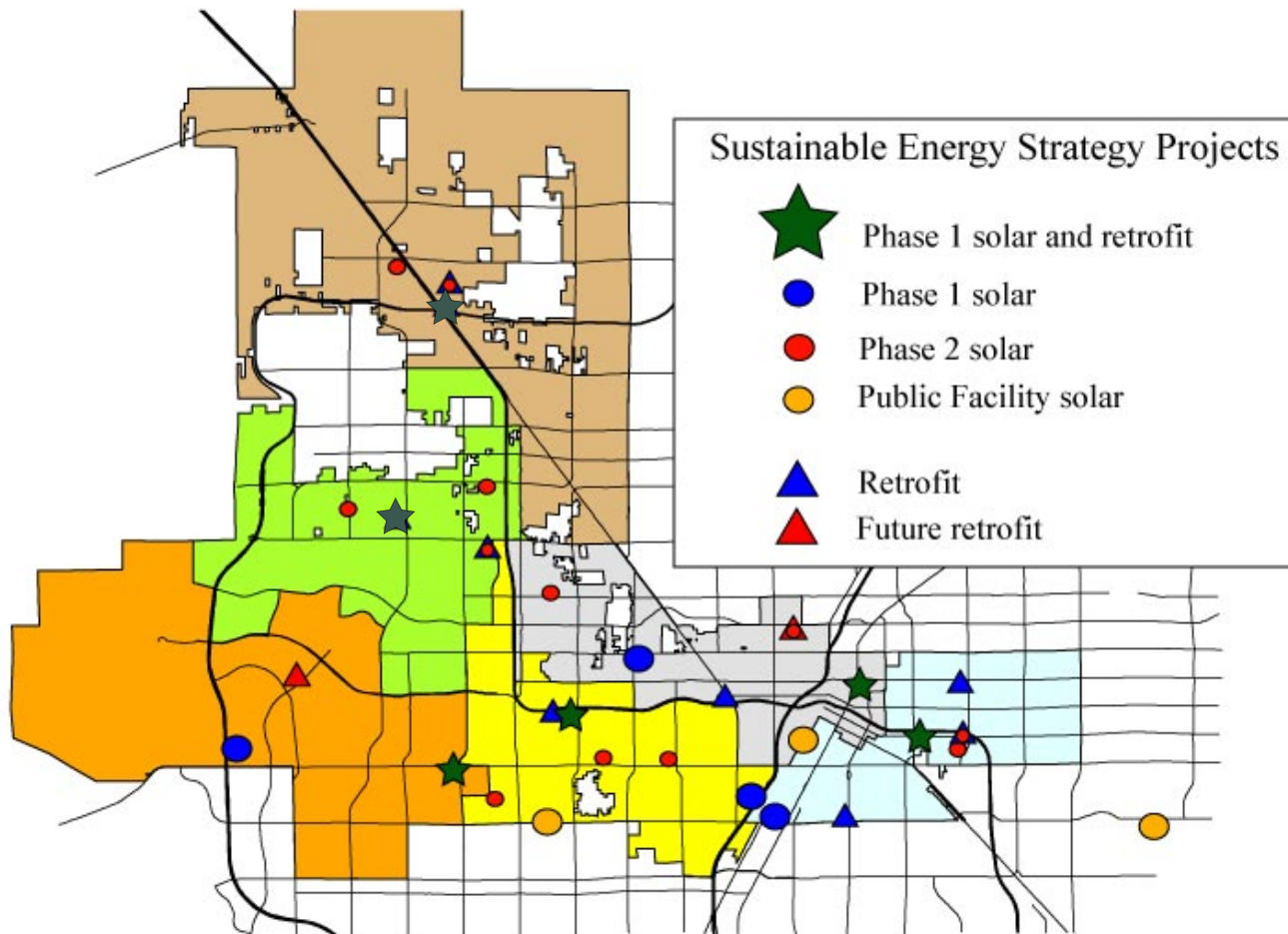
Public Facility Retrofits	
Facilities	12
kWh Saved	2,580,000
GHG Reduction	1,850 tons
Cost	\$3,730,000
ROI	12 years
Annual Savings	\$309,000
Jobs	41



Where We Are Today: FY2009

Sustainable Energy Strategy Annual Report FY2009

City of Las Vegas Solar Installations and Public Facility Retrofits



Where We Are Today: FY2009

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CITY OPERATIONS

- *Electricity Consumption*
 - Streetlight Retrofit

Streetlight Retrofit Scenario	
Streetlights	10,000
kWh Saved	5,650,000
GHG Reduction	4,000 tons
Cost	\$3,400,000
ROI	6 - 7 years
Annual Savings	\$540,000
Jobs	76



Where We Are Today: FY2009

Sustainable Energy Strategy Annual Report FY2009

CITY CODES, REGULATIONS & POLICIES

- *Green Building Program 2.0*
 - Re-launched July 2009 with mandates and incentives for new construction AND retrofits

GBP Program Results to Date

CLV LEED Buildings	5 registered
Public LEED Buildings	5 certified
Private LEED Buildings	7 certified
New Homes	27
Energy Audits	500
Energy Retrofits	50



Where We Are Today: FY2009

Sustainable Energy Strategy Annual Report FY2009

COMMUNITY INVOLVEMENT

- *HomeFree Nevada*
 - Incentives for energy audits and retrofits in place through Green Building Program
- *Green Chips*
 - Non-Profit Audit and Low-Income Residential Retrofit Pilot Program Complete



Shade Tree Non-Profit Retrofit

Energy reduction	10%
Monthly Savings:	\$500
Audit value (donated):	\$10,000
Retrofit (CLV Grant):	\$30,000
Retrofit (leveraged):	\$60,000
Total Project Value:	\$100,000

Low Income Residential Retrofits

Residential Retrofits:	7
Average cost:	\$7,400
Average energy reduction:	30%
Average monthly savings:	\$58
Retrofit (CLV Grant):	\$53,000
Retrofit (leveraged):	\$26,447
Total Project Value:	\$79,447

Around the Corner: FY2010

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City Operations

Sustainable Decision Making	Development of Hara energy management tool to evaluate policies and programs
Investment in Renewable Energy	4.875 MW installed; will exceed 2011 target of 3 MW by 62%
Reduction of Electricity Consumption	Completion of facility and streetlight retrofits projected to save 10 million kWh annually or 5.6%; will exceed target reduction of 5% by 2011
Carbon Footprint	116,617 metric tons (-9.8%), on track to meet target reduction of 10% by 2011
Reinvestment in Energy Projects	\$300,000 projected savings to be reinvested
Alternative Fuels	City employees eligible to participate in RTC Electric Bike Program

Around the Corner: FY2010

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City Codes, Regulations & Policies

Form-based Sustainability Zoning Code	Scheduled for adoption
2009 International Energy Conservation Code	Scheduled for adoption
Green Building Program	New emphasis on small commercial and non-profit retrofits

Community Involvement

HomeFree Nevada	Full launch of Home Performance with ENERGY STAR; retrofit incentives fully implemented
Green Chips	Launch of Revolving Loan Fund for energy retrofits

On the Horizon: 2011 and Beyond

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Awards & Recognition

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U.S. DEPARTMENT OF ENERGY

City of Las Vegas named as one of the Top Ten Energy Efficiency and Conservation Block Grant Programs



AIA Nevada Sustainable Practice Service Award
City of Las Vegas Sustainable Energy Strategy



State of Nevada ranked as 6th GREENEST STATE
by Greenopia.com



USGBC Nevada Chapter Community Contribution Award
Tom Perrigo / City of Las Vegas Green Building Program

nielsenwire

City of Las Vegas ranked 7th Top U.S. City
for Green Energy Programs

Awards & Recognition

Sustainable Energy Strategy Annual Report FY2009



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Las Vegas Puts Sustainability In The Spotlight

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By: Trevor Curwin,, Special to CNBC.com | 08 Jul 2010 | 02:28 PM ET Text Size - +

The City of Las Vegas is hoping to win big with energy conservation.

Mayor Oscar Goodman Thursday announced the city is teaming up with energy management firm Hara to audit the gaming capital's power usage.

"Las Vegas is striving to build a more sustainable community by investing in strategies to conserve energy and increase efficiencies," says Las Vegas mayor