

Energy Conservation

The \$34.1 million Energy Conservation Program is funded with General, Convention Center, Water and Wastewater operating funds and federal grants. This program includes capital projects to continue the city's energy conservation efforts, installation of solar panels at various city facilities and includes energy efficient retrofit cost reduction efforts. Funding in 2009-10 includes grant funds awarded through the American Recovery and Reinvestment Act (ARRA) for energy efficiency and conservation related projects.

The city's Energy Conservation Program has been in place for more than 20 years. Through the program's efforts in addressing energy efficient retrofits, energy efficient design and management, metering for efficient operations and implementation of new technology, first year annualized cost savings average \$250,000.

Energy saving retrofits have been completed for lighting, heating, ventilation, air conditioning and control systems. Examples of recent capital projects that the Energy Program has participated in include the Phoenix Convention Center, Pecos Community Center and Desert Broom Library.

2009-2014 CAPITAL IMPROVEMENT PROGRAM

Energy Conservation
Capital Improvement Program Summary

Project Summary	2009-10	2010-11	2011-12	2012-13	2013-14	Total
Energy Projects	\$ 28,345,000	\$ 1,450,000	\$ 1,450,000	\$ 1,450,000	\$ 1,450,000	\$ 34,145,000
Total	\$ 28,345,000	\$ 1,450,000	\$ 1,450,000	\$ 1,450,000	\$ 1,450,000	\$ 34,145,000
Source of Funds						
Operating Funds						
General Fund	\$ 637,000	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000	\$ 3,637,000
Convention Center Revenues	138,000	200,000	200,000	200,000	200,000	938,000
Operating Grants	27,000,000	-	-	-	-	27,000,000
Wastewater Revenues	300,000	300,000	300,000	300,000	300,000	1,500,000
Water Revenues	270,000	200,000	200,000	200,000	200,000	1,070,000
Total Operating Funds	\$ 28,345,000	\$ 1,450,000	\$ 1,450,000	\$ 1,450,000	\$ 1,450,000	\$ 34,145,000
Total Sources of Funds	\$ 28,345,000	\$ 1,450,000	\$ 1,450,000	\$ 1,450,000	\$ 1,450,000	\$ 34,145,000

City of Phoenix, Arizona
2009-2014 Capital Improvement Program
Energy Conservation

<i>Project No.</i>	<i>Project Title</i>	<i>2009-10</i>	<i>2010-11</i>	<i>2011-12</i>	<i>2012-13</i>	<i>2013-14</i>	<i>Total</i>
PW34030033	ENERGY CONSERVATION-CITYWIDE	Function: Energy Projects				District: Citywide	
Provide funding for installation of citywide green buildings (LEED), photovoltaics, energy efficient lighting, efficient HVAC & chiller systems, district cooling, and energy management and temperature control systems.							
Construction		637,000	750,000	750,000	750,000	750,000	3,637,000
Project Total		\$637,000	\$750,000	\$750,000	\$750,000	\$750,000	\$3,637,000
General Fund		637,000	750,000	750,000	750,000	750,000	3,637,000
Funding Total		\$637,000	\$750,000	\$750,000	\$750,000	\$750,000	\$3,637,000
PW34030034	ENERGY CONSERVATION-WASTEWATER	Function: Energy Projects				District: Citywide	
Provide funding for installation of efficient motors, variable speed drives, power factor correction, process controls.							
Construction		300,000	300,000	300,000	300,000	300,000	1,500,000
Project Total		\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$1,500,000
Wastewater Revenues		300,000	300,000	300,000	300,000	300,000	1,500,000
Funding Total		\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$1,500,000
PW34030035	ENERGY CONSERVATION-WATER PRODUCTION	Function: Energy Projects				District: Citywide	
Provide funding for installation of efficient motors, variable speed drives, power factor correction, and control systems.							
Construction		270,000	200,000	200,000	200,000	200,000	1,070,000
Project Total		\$270,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,070,000
Water Revenues		270,000	200,000	200,000	200,000	200,000	1,070,000
Funding Total		\$270,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,070,000
PW34030036	ENERGY CONSERVATION-CONVENTION CENTER	Function: Energy Projects				District: 8	
Provide funding for green building (LEED), energy efficient cooling systems, district cooling, energy efficient lighting, photovoltaics, and energy management and temperature control systems.							
Construction		138,000	200,000	200,000	200,000	200,000	938,000
Project Total		\$138,000	\$200,000	\$200,000	\$200,000	\$200,000	\$938,000
Convention Center Revenues		138,000	200,000	200,000	200,000	200,000	938,000
Funding Total		\$138,000	\$200,000	\$200,000	\$200,000	\$200,000	\$938,000
PW34990001	CITY WIDE ENERGY PLAN	Function: Energy Projects				District: Citywide	
To develop a comprehensive citywide energy plan to deal with EECBG opportunity.							
Equipment		11,800,000	-	-	-	-	11,800,000
Construction		15,200,000	-	-	-	-	15,200,000
Project Total		\$27,000,000	-	-	-	-	\$27,000,000
ARRA 2009 Public Works Stimulus		27,000,000	-	-	-	-	27,000,000
Funding Total		\$27,000,000	-	-	-	-	\$27,000,000