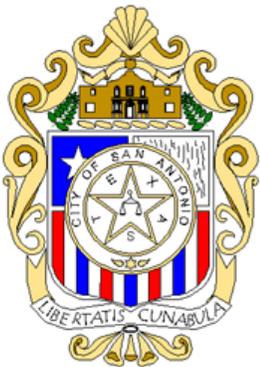


2009

Inventory of Clean Energy Initiatives

San Antonio



November 2009 - Revised

Good Company
ASSOCIATES



TEXAS FOUNDATION FOR INNOVATIVE COMMUNITIES



City of San Antonio Initiatives and Policies



DOE Solar
America City

<http://www.solaramericacities.energy.gov/Cities.aspx?City=San%20Antonio>

The City of San Antonio is actively working to create a significant role for solar energy in the city's energy portfolio and is one of the U.S. Department of Energy's 13 inaugural Solar America Cities. The Solar America Cities grant will augment the city's existing solar initiative to develop a more aggressive near- and mid-term strategic approach to solar power. The city plans to collaborate with market transformation partners such as local renewable energy non-profits in the development and adoption of a sustainable solar infrastructure for the City by 2015.



Office of
Environmental
Policy

<http://www.sanantonio.gov/oep/index.asp>

The City of San Antonio has a dedicated Office of Environmental Policy (OEP) that helps coordinate the city's energy, environment, and sustainability initiatives. Directed by Laurence Doxsey, the OEP is "committed to developing innovative, practical and wide-ranging environmental programs, city policies and regulations sustaining community-wide quality of life and economic growth."



Mission Verde

<http://www.sanantonio.gov/oep/SustainabilityPlan.asp>

Mission Verde is a thoughtful, multi-faceted sustainability plan for the City of San Antonio that suggests a number of clean energy, energy efficiency, and other green initiatives. "It was drawn up after close study of the economic conditions in San Antonio and pays careful attention to the city's assets and challenges in building a sustainable economy. The intent of the plan is to invest in energy initiatives that will save the consumer and the community money, and serve as a catalyst for job creation and innovation."



HB 1937 Task Force

The Office of Environmental Policy is actively pursuing an initiative to implement a Property Assessed Clean Energy (PACE) program in Austin as allowed by Texas State Representative Michael Villarreal's House Bill 1937 (HB 1937). The proposed program would finance energy efficiency improvements and renewable energy installations through voluntary contracts with property owners repaid through long-term assessments on property tax bills.



Green Jobs
Leadership Council

<http://www.sanantonio.gov/news/NewsMayorCouncil/nrMayorCastroGreenJobs.asp?res=1680&ver=true>

The Green Jobs Leadership Council was formed by Mayor Castro to help chart a course for San Antonio in the new green economy. The Council is chaired by Larry Zinn and held its first meeting on September 22, 2009. It is working on a comprehensive and integrated approach to the development of green jobs in San Antonio, as part of a larger vision for building a green economy. The Council will build upon the green jobs report "Building Green Skills: A Green Jobs Program for San Antonio."



Green Jobs Report

<http://www.sanantonio.gov/oep/pdf/CAEL%20Jobs%20initiative%20Report%20Final.pdf>

The Council for Adult and Experiential Learning (CAEL) worked with the City of San Antonio and other area stakeholders to help focus the targets of a green jobs program and to assess San Antonio's current capacity to maximize the employment benefits of Mission Verde and other local efforts. Their green jobs report, "Building Green Skills: A Green Jobs Program for San Antonio," was commissioned by the San Antonio City Council.



Citizen's
Environmental
Advisory
Committee

<http://www.sanantonio.gov/oep/CEAC.asp>

The Citizen's Environmental Advisory Committee (CEAC) was created on April 2, 2009 by City of San Antonio Ordinance number 2009-04-02-0247. The CEAC are comprised of volunteer District appointees. The purpose of the CEAC is to involve the community in advancing the City of San Antonio "Mission Verde" into the future. The committee will provide recommendations on effective environmental programs and policies to City staff and City Council and will serve as a forum for the community to offer input concerning environmental sustainability.



OEP Sustainability
Task Force

<http://www.sanantonio.gov/oep/CitySustainability.asp>

The goal of the Office of Environmental Policy's Sustainability Task Force (STF) is to build department efforts that foster a collaborative city-wide effort to integrate the triple bottom line of sustainability (environmental, economic, and social advantages) into municipal operations. Current projects include a plug-in electric hybrid study and a water fountain conservation project. Recommendations for projects can be submitted directly to the OEP.



Build San Antonio
Green

<http://www.buildsagreen.org/>

Build San Antonio Green® (BSAG) is San Antonio's residential Green Building Program. The program was developed specifically for San Antonio and focuses on five areas: Energy Efficiency, Water Efficiency, Site, Health, and Materials. BSAG is co-administered with the Greater San Antonio Builders Association (GSABA). GSABA has recognized the importance of building green, and in 2002 came together with BSAG to create the Build San Antonio Green™ program in order to certify homes as being built green. BSAG and GSABA are committed to educating the builder and homeowner about the importance of building green, and the benefits associated with it. Anita Ledbetter, Executive Director of Build San Antonio Green was recently named Individual Partner of the Year by the Texas Renewable Energy Industries Association (TREIA).



San Antonio Water
System (SAWS)

http://www.saws.org/WHO_WE_ARE/index.shtml

SAWS has been an innovative leader in water conservation throughout the State of Texas and the nation, which has led to a significant reduction in municipal energy usage as well. SAWS has helped reduce the City's water consumption by 32% over the past 16 years, despite significant population growth, through a combination of outreach and system maintenance. Its \$7 million conservation budget and 16 person dedicated staff allows for implementation of outreach and rebate programs in a number of areas, including landscaping, washing machines, hot water on demand, and free water-efficient toilets.



Solid Waste
Management
Department

<http://www.sanantonio.gov/swmd/>

The mission of the Solid Waste Management Department is to protect the public health and safety of the City of San Antonio by providing quality municipal solid waste services and environmental programs that are safe, efficient, cost effective, and environmentally responsible.



OEP Air Quality Plan <http://www.sanantonio.gov/oep/airquality.asp>

Air quality has become both a health and economic issue for the San Antonio region. Therefore, air quality has become a top City priority and will affect future decisions about energy generation and usage.



OEP Hike & Bike <http://www.sanantonio.gov/oep/hikebike.asp>

The City of San Antonio's Bicycle and Pedestrian Program is working to raise the level of cycling and walking for daily travel, improve cycling and pedestrian safety, and reduce carbon emissions from vehicles.



CPS Energy Initiatives and Incentives

CPS Energy is the largest municipally-owned energy company in the nation, providing both gas and electricity to residents in San Antonio. A community-owned, not-for-profit company with a diversified mix of fuels, CPS is able to provide customers with reliable and affordable energy services. In May 2009, CPS hired Cris Eugster to serve as its first Chief Sustainability Officer.



CPS Energy Vision
2020 http://www.cpsenergy.com/files/Vision_2020.pdf

Vision 2020 is the foundation and reference for CPS Energy's strategic and long-term planning efforts. It provides a vision for how CPS should operate in 2020 and explains some of the challenges that must be overcome to realize that vision. It also sets priorities for the utility and clearly stresses the need for cleaner sources of energy and for aggressive energy efficiency efforts.



Strategic Energy Plan http://www.cpsenergy.com/Residential/Information_Library/Strategic_Energy_Plan_faq.asp

Released in 2003, the Strategic Energy Plan (SEP) is CPS Energy's roadmap for supplying the power Greater San Antonio needs for a bright, sustainable energy future. It focuses on four key objectives:

- Increasing Energy Efficiency and Conservation Efforts;
- Expanding Renewable Energy Sources;
- Providing Cost-Competitive Electricity; and
- Maintaining Our Strong Environmental Commitment.



Renewables Portfolio Goal http://www.cpsenergy.com/Residential/Information_Library/Strategic_Energy_Plan_faq.asp

In 2003 CPS Energy established a goal of meeting 15% of its electrical peak demand with renewable energy by 2020. In June 2008 the utility announced plans to increase the overall renewables target to 20% by 2020 with at least 100 megawatts (MW) from non-wind renewable energy sources. As of June 2009, the utility had 895 MW of renewable energy under contract, including 27 MW of solar electricity, reportedly enough to meet 17.2% of expected 2020 peak demand.



Save for Tomorrow Energy Plan (STEP) <http://www.sanantonio.gov/oep/step.asp>

CPS Energy's Save for Tomorrow Energy Plan (STEP) is an aggressive energy conservation program. The goal of the program is to save 771 MW of electricity between 2009 and 2020. The total cost of the program will be approximately \$849 million with annual costs ranging from \$12.3 million to over \$77 million.



Solartricity http://www.cpsenergy.com/Services/Generate_Deliver_Energy/solartricity.asp

CPS Energy's Solartricity® Producer Program is a market-based initiative that could attract hundreds of small-to-large-scale solar energy-generating projects in the Greater San Antonio area. CPS Energy plans to begin accepting Solartricity Producer applications in January 2010. Applicants with solar-energy systems that produce 25 to 500 kilowatts will be eligible for the program. CPS Energy will accept applications over a two-year period and will seek to add up to 5 megawatts (MW) of solar production in each of those two years.



Windtricity http://www.cpsenergy.com/Services/Windtricity/windtricity_at_home.asp

For just a few extra pennies a day, families can support clean, renewable, wind-generated electricity from CPS Energy, called Windtricity®. Residential customers of CPS Energy can enroll in Windtricity by choosing a percentage level of participation or by choosing a monthly set rate for participation. Windtricity rates can be locked in for 12 months.



Energy Storage Project <http://sanantonio.bizjournals.com/sanantonio/stories/2009/04/13/daily10.html>

In 2009, CPS Energy began a three-year study to help determine the quality and price of energy storage devices that could help meet the city's future electricity demand. It is one of the first such studies in Texas. They are working with Premium Power, the developer of the TransFlow 2000 zinc-flow battery system, among others.



Plug-in Electric Hybrid Study <http://www.sanantonio.gov/oep/CitySustainability.asp?res=1680&ver=true>

CPS Energy's Energy Research and Technology Initiatives (ERTI) department will partner with the City of San Antonio's Fleet Maintenance and Operations Department on the conversion of two late-model (2004 or newer) Toyota Prius vehicles and the installation of six charging stations.

CPS Energy also offers a variety of rebates, loans and incentives to its customers for photovoltaic (PV) systems, solar hot water systems, energy efficiency products, and many other items. For a listing of these offerings, please refer to Appendix A or go to: http://www.cpsenergy.com/Save_Money/index.asp.



Collaborative Initiative: The Energy Research Alliance of San Antonio
<http://www.utsa.edu/today/2009/07/energyalliance.cfm>

The Energy Research Alliance is a formal agreement between CPS Energy, San Antonio Water System, the Southwest Research Institute, and the University of Texas at San Antonio to explore new and innovative energy solutions. Formed in July 2009, the Alliance will conceptualize, develop, and commercialize technologies to meet San Antonio's current and future energy challenges. This Alliance could prove to be a catalyst for clean energy development in San Antonio.



University of Texas at San Antonio Initiatives

The University of Texas at San Antonio (UTSA) is one of the fastest growing higher education institutions in Texas and the second largest of nine academic universities and six health institutions in the UT System. Founded in 1969, UTSA now serves more than 28,400 students in 64 bachelor's, 47 master's and 21 doctoral degree programs in the colleges of Architecture, Business, Education and Human Development, Engineering, Honors, Liberal and Fine Arts, Public Policy, Sciences and Graduate School.



Institute for
Conventional,
Alternative and
Renewable Energy
(ICARE)

<http://utsaengineering.tumblr.com/post/238166356/institute-for-conventional-alternative-and-renewable>

Under the direction of newly hired Dr. Les Shephard, UTSA's energy institute will bring together representatives from industry, government, and academia to explore alternative energy sources. It will also look into new policies and best practices for the energy industry in the region, the state, and internationally. The Institute's research will involve every college at UTSA and the university's existing Center for Water Research. ICARE will also support the Energy Research Alliance of San Antonio. Dr. Shephard will join UTSA in April 2010 from Sandia National Laboratories, where he served for more than 27 years. Most recently, Shephard was vice president of Sandia's Energy, Security and Defense Technologies Division, a multi-program science-based engineering laboratory located in Albuquerque, New Mexico.



Center for Water
Research

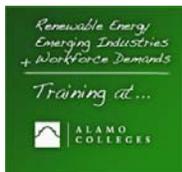
<http://www.utsa.edu/water/>

The Center for Water Research was established as the Center for Groundwater Research and Technology in 1987 by a grant from the National Science Foundation. The Center, a research component of the College of Sciences and the College of Engineering at The University of Texas at San Antonio, is funded by a variety of public and private research funds. The name was changed in 1991 to reflect expanding research activities, staff capabilities and interdisciplinary character of the Center.



Alamo Colleges (Alamo Community College District) Initiatives

Alamo Colleges, previously known as the Alamo Community College District, served over 60,000 students in the Bexar County community in 2009 through their programs and services that helped the students succeed in acquiring the knowledge and skills needed in today's world. The five Alamo colleges —Northeast Lakeview College, Northwest Vista College, Palo Alto College, St Phillip's College, and San Antonio College— offer associate degrees, certificates and licensures in occupational programs that prepare students for jobs, as well as arts and science courses that transfer to four-year colleges and universities and lead to AA and AS degrees.



Green Job Training

www.alamo.edu/greenjobs

Additional [Presentation](#)

In partnership with Workforce Solutions Alamo, the Alamo Colleges have established a Green Job Training Institute and other programs to conduct energy efficiency, clean energy, water conservation, and other environmental training in San Antonio. As part of the initiative, a clean energy demonstration site will assist in building community awareness on the values of renewable and alternative energy. It can also be used to help educate San Antonio public school students in the benefits and processes of wind, solar, hydrogen fuel cell and energy storage technologies.



I-35 Green Corridor Collaborative

<http://www.accd.edu/main/html/news/2009/070809.htm>

The Alamo Colleges are an active member in the consortium of community colleges and workforce boards that have agreed to work together to develop a “green economy” in the region from San Antonio to the Dallas/Ft. Worth Metroplex. Alamo Colleges Chancellor Dr. Bruce H. Leslie joined representatives from other major community colleges in July 2009 to announce the I-35 Green Corridor Collaborative. Other members include the Austin Community College District, Dallas County Community College District, Temple College, and Texas State Technical College.



Southwest Research Institute Initiatives

Southwest Research Institute (SwRI) is an independent, nonprofit applied research and development organization. The staff of more than 3,200 specializes in the creation and transfer of technology in engineering and the physical sciences. The Institute occupies more than 1,200 acres in San Antonio, Texas, and provides nearly 2 million square feet of laboratories, other facilities, and offices. SwRI's total revenue for fiscal year 2009 was \$564 million. Additional information available at: <http://www.swri.org/>.

Other San Antonio Initiatives and Organizations



Solar San Antonio <http://www.solarsanantonio.org/>

Solar San Antonio is a regional leader in the promotion of renewable energy. The nonprofit works with CPS and the San Antonio Development Agency to install solar hot water systems in affordable housing. It received an award from the U.S. Economic Development Agency to study South Texas as a Center of Excellence for economic development through renewable energy.



San Antonio Clean Technology Forum <http://www.sacleantech.org/>

Founded in 2008 by Michael Burke, the former Chief Executive Officer of Tesoro Petroleum and current President of MDB Capital Ventures, the San Antonio Clean Technology Forum has quickly become one of the most influential civic groups in the region promoting sustainability issues. Comprised of business, educational and community leaders, as well as students and interested citizens, SACTF is committed to making a significant contribution to the future of San Antonio.



Metropolitan Partnership for Energy (MPE) <http://www.mp4e.info/>

MPE was created to bring sound energy policy and practices to the San Antonio region. Its broad range of initiatives support this goal. First and foremost, MPE assists its partners with the energy reduction requirement of Senate Bill 5. This entails ongoing communication, education and technical assistance. Energy policies have been drafted for both Bexar County and the City of San Antonio. Benefits of reduced energy consumption include lower energy bills, better air quality, and a reduction in global warming. Secondly, MPE has developed San Antonio's first residential green building program Build San Antonio Green that will provide specific guidelines for architects and builders to construct healthy environmentally friendly buildings. A related effort will make green buildings more affordable through energy efficient mortgages.



Keep San Antonio Beautiful http://www.keepsabeautiful.org/Home_Page.php

Keep San Antonio Beautiful is a certified affiliate of Keep America Beautiful and Keep Texas Beautiful. Keep San Antonio Beautiful concentrates its efforts on educating the public about solid waste issues, litter prevention, graffiti abatement and public stewardship. Established in 1980, Keep San Antonio Beautiful is sustained with the assistance of broad base of support from local government, private industry, and individual citizens.



Clean Air Drive <http://www.cleanairdrive.com/>

The Alamo Clean Air Partnership is operated in collaboration with the Alamo Area Council of Governments.



VIA Metropolitan
Transit

<http://www.viainfo.net/>

VIA is a long-term steward of environmental and energy conservation. An aggressive fleet replacement program initiated in 1999 has to date yielded an average 65% reduction in oxides of nitrogen emissions and an 85% reduction in particulate matter emissions per transit vehicle. Reductions in emissions will continue to be achieved with an active engine retrofit program and as the replacement of aged fleet vehicles proceeds.



Alamo Area Council
of Governments

<http://www.aacog.com/default.asp>

AACOG has taken a lead role in educating its constituency about the energy efficiency requirements of the Texas Emissions Reduction Act (Senate Bill 5). The agency is responsible for local planning to manage air quality in the San Antonio region, in coordination with the US Environmental Protection Agency and the Texas Commission on Environmental Quality. AACOG coordinates San Antonio Clean Cities, a program of the U.S. Department of Energy that helps local fleets transfer over to alternative, less polluting fuels, and manages the TxDOT Commute Solutions program to promote alternate transportation solutions for citizens. AACOG also operates a home weatherization program for low-income families.



Greater San Antonio
Builders Association

<http://www.sabuilders.com/>

The Greater San Antonio Builders Association is a not-for-profit trade association established to represent builders, developers, remodelors and affiliated industry members in cooperation to benefit and promote homeownership. GSABA is a trade association that offers the opportunity to its members to display products and services, and offers the community a showcase of member profiles and products. GSABA makes no representation, expressed, or implied, regarding the qualifications of its members or the quality of their products and services, but invites you to examine them for yourself.



San Antonio Business
Journal Going Green
Awards

<http://sanantonio.bizjournals.com/sanantonio/event/6547?sid=00c5e3b8792c52a6c6767782ac33e501>

For the first time ever, the San Antonio Business Journal presents the 2009 Going Green Awards, recognizing individuals, companies and programs making an effort to save our planet.

***APPENDIX A –
CPS Energy Rebates, Loans, and Incentives***



Air Conditioner Rebates

http://www.cpsenergy.com/Residential/Residential_Rebates_2009/Air_Conditioner_Rebates/index.asp

CPS Energy is offering rebates when purchasing and installing qualifying high-efficiency central systems or window units. Rebates for central air conditioning systems and central heat pump systems are determined by the overall seasonal energy efficiency ratio, or SEER. Central units that qualify for a rebate must have a SEER rating of 15.0 or greater.



Air Flow Performance Rebates

http://www.cpsenergy.com//Residential/Residential_Rebates_2009/Air_Flow_Performance/index.asp

Air Flow Performance Rebates are available only for work completed on existing AC systems. This program is not applicable to new construction. Rebates are not available for duct sealing. Air Flow rebates will be granted only for installations completed by contractors registered with CPS Energy. Work completed by other contractors or by homeowners are not eligible for a rebate from CPS Energy.



Cool Roof Rebates

http://www.cpsenergy.com/Residential/Residential_Rebates_2009/Cool_Roofs/index.asp

CPS Energy is offering a rebate of \$0.20 per square foot of roof area on an ENERGY STAR "Cool Roof."



Attic Insulation Rebates

http://www.cpsenergy.com/Residential/Residential_Rebates_2009/Attic_Insulation/index.asp

CPS Energy is offering a rebate of \$0.15 per square foot of attic insulation installed. The rebate amount is based on the amount of insulation actually installed over conditioned space.



Spray Foam Insulation Rebates

http://www.cpsenergy.com/Residential/Residential_Rebates_2009/Spray_Foam_Insulation/index.asp

CPS Energy is offering a rebate of \$0.50 per square feet of the floor plan of the conditioned areas of a home for new, constructed homes or for existing homes if both the attic and walls are insulated at the same time. A rebate of \$0.25 per square feet of attic floor space under conditioned areas of the home is offered if only the attic is sprayed.



Wall Insulation Rebates

http://www.cpsenergy.com/Residential/Residential_Rebates_2009/Wall_Insulation/index.asp

CPS Energy is offering a rebate for wall insulation of \$0.15 per square foot of treated wall area.



Window (Energy Star) Rebates

http://www.cpsenergy.com/Residential/Residential_Rebates_2009/Windows_EnergyStar/index.asp

CPS Energy is offering a rebate of \$1.50 per square foot on ENERGY STAR Windows.



Window Solar
Screens and Film
Rebates

http://www.cpsenergy.com/Residential/Residential_Rebates_2009/Windows_SolarScreens/index.asp

CPS Energy is offering a rebate of \$0.30 per square foot installed for solar screens and film.



Solar Initiatives PV
Rebates

http://www.cpsenergy.com/Residential/Residential_Rebates_2009/Solar_Photovoltaic/index.asp

The CPS Energy Solar Initiative Rebate program is offering an incentive of \$3.00 per AC watt based on the calculated expected performance of the system that is less than 100 kW. For systems larger than 100 kW, contact CPS Energy.



Solar Water Heater
Rebates

http://www.cpsenergy.com/Residential/Residential_Rebates_2009/Solar_WaterHeater/index.asp

The CPS Energy Solar Initiative Rebate program is offering an incentive for the installation of solar water heating systems installed within the CPS Energy service territory. These incentives will be available to any valid CPS Energy customer, primarily residential and commercial customers. The solar water heater equipment installed must be new and must be OG-300 certified by the Solar Rating Certification Corporation (SRCC). Only systems currently served by an electric hot water heater are eligible to receive the rebate. The rebates will be calculated using the SRCC's calculated Annual kWh Energy Savings Performance table for San Antonio. The listed calculated savings for the system will be multiplied by a rate of \$0.60. Rebates for the solar water heating systems will have a maximum allowable rebate amount of \$2,000.



CFL Instant Rebates

http://www.cpsenergy.com/Residential/Residential_Rebates_2009/CFL_Coupons/index.asp

CPS Energy is offering instant rebates toward the purchase of ENERGY STAR®-rated compact fluorescent light (CFL) bulbs. Coupons can be printed from the website for \$2 off a single pack of CFLs or \$4 off a multi pack. Coupons also are available at all H-E-B stores.



SAWS Washer
Rebates

http://www.cpsenergy.com/Residential/Residential_Rebates_2009/Wash_Right_rebates.asp

A high-efficiency washing machine not only reduces energy use by up to 70 percent, but water use as well by up to 50 percent. Now, when you install a high-efficiency machine, you can pick up a \$100 rebate on your SAWS water bill. Save more energy and money with a \$100 rebate from CPS Energy toward the purchase of any natural gas dryer.



Peak Saver
Programmable
Thermostats

http://www.cpsenergy.com/Residential/Residential_Rebates_2009/Peak_Saver/index.asp

A free Honeywell programmable thermostat, like one of CPS Energy's Peak Savers, is available from CPS. What makes a Peak Saver different from the rest? It's free (that's right, a \$300 value), you don't have to install it yourself, and you can access and adjust it from anywhere via the Internet.
