

WINTER EDITION Two Thousand and Five



Wayne Evelo
ECC Chair

H I G H L I G H T S	
Resolution Summary	Million Solar Roofs Wins Award
Energy Education on GovTV 16	Clean Cities Update

Chairman's Message

Something incredible has happened! The City Council passed, and Mayor Martin Chavez signed into law, R-05-329 "Adopting Policies to Establish and Implement a City Renewable Energy Initiative." This is a very far reaching Resolution, passed with bi-partisan support, which when implemented will make Albuquerque one of the most sustainable cities in the country, if not the world. See the entire Resolution on the ECC website at <http://www.cabq.gov/energy/documents/Resolution329.doc>.

- Continued p.2 Chairman's Message

Richard Harding Retires December 2005

City of Albuquerque Municipal Development Deputy Director, Richard Harding will be retiring December 2005. Mr. Harding has been a strong advocate for the ECC. Through his dedication, experience and extensive knowledge of facilities management and governmental procedures, he has helped the council stay focused to become successful in their goals and mission. Mr. Harding has been instrumental in implementing the GOV 16 Energy Matters series as well as pushing for solar initiatives within the city. As Deputy Director, Mr. Harding has also been responsible for Security Enforcement, Parking and Energy Management.



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Meetings & Events

ECC Open Meeting

DECEMBER 14

Resolution Implementation

*8 a.m. - 10 a.m.
Facilities & Energy Management
1801 4th St. NW*

*Please contact
Connie Tachias at
(505) 768-5345,
Ctachias@cabq.gov*



ECC Advisory Committee:

*Jean Arya,
Lynn Behnfield-Thomas, Don Maez, Jim Palmer, and Julie Stephens*

All of these sections have flourished through his reign. Thank you Mr. Harding for all your efforts and congratulations on your retirement!

Chairman's Message Continued...

This tremendous accomplishment by the City Council and Mayor has created a vision and a plan for Albuquerque's future that includes high wage jobs, excellent facilities for the city employees to better serve city residents, more efficient use of resources, more use of clean locally produced energy, and a cleaner environment. Did I mention the additional high wage jobs?

The Resolution (see highlights on page 5) is a multifaceted policy statement with specific actions and deadlines to be met by the City of Albuquerque (CoA) and the Energy Conservation Council (ECC). The ECC



is looking forward to continuing our excellent relationship with the City as we work together to create the exciting programs outlined in the Resolution. It is easy to envision the synergistic effect of Resolution on the City and its' residents.

As an example, assume the city determines it needs a new library. The new programs would result in a library that is very energy efficient, generates its own power made with renewable energy equipment manufactured in town, was built with environmental safe products, landscaped with plants compatible with the local environment, has a view of Albuquerque without a brown cloud and educates the library users on the benefits of energy efficiency and renewable energy. The result is a state of the art library, meeting all the needs of the public, which is also cost effective to maintain.

As a different example, assume one of the new solar product manufacturers hires a new engineer. He and his family move to a new development in Albuquerque. He's not concerned about pollution, because there is no brown cloud over the city. The house purchased is very energy efficient, has a solar hot water system on it, is located close to public transportation (fueled with Bio-diesel), has a Xeriscaped yard, and is close to excellent schools and the new library. The homeowner then uses the Solar Federal tax credit, coupled with the soon to be approved (hopefully) State Solar tax credit, and the CoA rebate to buy a solar electric system that meets the majority of his power needs. This results in an excellent quality of life because of the high wage job, a comfortable house with a very low utility bill, and easy access to a healthy and vibrant city.

Resolution R-05-329 could make the examples described above become a reality in the next few years because of the vision *-continued p. 3*

SCOPING STUDY UNDERWAY

ECC Member, Howard Stephens has initiated a scoping study to identify stakeholders and key elements of the Five-Year Education Plan that fulfills the mandates set out in the bill and Albuquerque City Code. Development of this Education Plan will be guided by input from ECC members, stakeholders and decision makers. For more information, or to provide input to the study, contact Howard Stephens at h.v.stephens@att.net.



Visit

www.cabq.gov

to see continuous updates of the Energy Conservation Council page.

Go to A-Z, select E for Energy, and look for the Energy Conservation Council link.

and plan created by the Mayor and the City Council. Something incredible is happening in Albuquerque!

The CoA and ECC will be working hard over the next few years to create and implement the programs described in the resolution, and we are interested in your ideas. The ECC meetings are held once a month and the public is welcome and encouraged to attend. For more information on times, locations, and agendas, please contact Connie Tachias with the CoA at (505) 768-5345.

Million Solar Roofs Award; “Best Progress”

Neighborhood Solar, the City of Albuquerque’s solar energy program, has received national recognition by the United States Department of Energy. An award was presented at the Million Solar Roofs (MSR) annual conference in Washington DC on October 8, 2005 to **Gene Bustamante**, City Energy Specialist responsible for the program, and **Lynne Behnfield Thomas**, Program Manager for *Neighborhood Solar*. The “Best Progress Awards for the Central Region” was in recognition of the City’s ambitious solar initiatives in its first year.

Neighborhood Solar achieved its eight-year goal of solar installations in its first year of operation. “Most MSR partnerships take eight to ten years to reach their goals,” according to Richard Harding, Facilities & Energy Division manager. ‘*Neighborhood Solar*’ reached its target by contracting for solar hot water and solar electricity for five large swimming facilities around the City.

The first solar installations are anticipated to save the City at least \$150,000 a year in gas heating costs, according to Bustamante. “The timing couldn’t be better for the taxpayers, since gas prices are rising fast,” he said.

“Part of the innovation of this program is the funding,” Thomas said. “We are using third-party financing by an Energy Services Company (ESCO). Installations won’t cost taxpayers a cent, because the savings in gas bills will be used to repay the ESCO.”

The ECC in 2004 endorsed Neighborhood Solar and incorporated its Ten Year Plan as ECC's renewable energy component. In its first year, Neighborhood Solar commissioned solar hot water and electricity installations for five CoA swim facilities, using third-party financing and no tax payer funds. Now in its second year, Neighborhood Solar is surveying 1.5 million square feet of CoA buildings to identify appropriate applications for six types of solar energy.

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“ENERGY MATTERS”

Cable channel 16 provides energy awareness and educational outreach. For other GOV16 scheduling times, visit www.cabq.gov/govtv/

November Show:

Adding Energy Efficiency. Guests: Susie Marbury, EMNRD, Julie Stephens, Rebuild NM, and Brian Turnolo, Rebuild NM.

Previous Shows: What is an ESCO?

Guests: Jack McGowan, Energy Controls, Inc., Neal Skiver, Nat. City Energy, and Dave Flood, Alamogordo Schools.

Flexible Fuel Vehicles
Chris Wentz, EMNRD, Frank Burcham, Clean Cities, and Dan Apodoca, UNM.



An end of the year **LOECC Board of Directors** meeting will be held in December to review this year’s activity and to discuss plans for the upcoming year.

Neighborhood Solar was also recognized for its comprehensive Ten Year Plan developed in its first year. The ECC endorsed this plan and incorporated it as a renewable energy component.

Margie Bates, DOE Regional manager for MSR, said at an Association of Energy Engineers luncheon, “I must mention the extraordinary, dedicated efforts of the Facilities Management Division under the direction of Richard Harding. The Division has diligently worked toward reaching its objectives for *Neighborhood Solar*. You all are an enthusiastic, ambitious, energetic, and tireless group, determined to make things happen in your community. On behalf of the Department of Energy, MSR Initiative, I must extend my sincere gratitude.”

Land of Enchantment Clean Cities Coalition



The Land of Enchantment Clean Cities Coalition's

Annual Stakeholder meeting took place October 6th at the Albuquerque Courtyard Marriott. Over 60 attendees from throughout the state were there.

Ernie Oaks, DOE Clean Cities Central Regional Manager, welcomed the group. NM Energy, Minerals and

Natural Resources Department representatives, Louise Martinez and Chris Wentz gave presentations along with national speakers from the National Biodiesel Board, Clean Energy, the US Army National Automotive Center and John Deere.

The LOECC Coalition formally renewed its commitments to improve air quality, economic growth, and energy security by facilitating the development and use of alternative fuel vehicles and alternative fuel infrastructure throughout NM. The Coalition is working with both the Governor and the Mayor on efforts to reach their alternative fuel vehicle goals over the next 5 years. This activity will hopefully not only increase the number of alternative fueled vehicles operating throughout the state, but will also assist in the expansion of alternative fueling stations in New Mexico.

Clean Cities State Coordinator, **Frank Burcham** reported that he continues to work with the Department of Energy's National Clean Cities on the five year re-designation of the Coalition for New Mexico. In this regard, the State of New Mexico Energy, Minerals and Natural Resources Department has funded the Coalition for the upcoming year.

CAPITOL CHRISTMAS TREE from NEW MEXICO

ECC Member, **Suzanne Probart**, Executive Director of Tree NM, announced that the 80-foot spruce comes out of the Santa Fe National Forest.

Tree New Mexico secured LED lights and a generator for the truck to use as they deliver the tree to Washington DC this month.

The state's donation may result in several thousand new trees planted in NM forests and communities in 2006. Researchers are determining how much greenhouse gas has been produced by the project's activities, and Tree NM will plant the number of trees needed to absorb the project's carbon dioxide output.

RESOLUTION HIGHLIGHTS

- Solar Energy Incentives (tax credits and incentives for manufactures of solar products in CoA).
- Existing City Bldgs will have 5% of their power from onsite renewable energy and a total of 15% of the power from renewable sources.
- New City Buildings will have 15% of their power from onsite renewable energy.
- 1% of the Capital Improvement Budget will continue to be set aside for energy efficiency and renewable energy projects.
- New City Bldgs will be at least 10% more efficient than required by the State Building Code.
- CoA vehicle fleet fuel will contain at least 20% non-petroleum fuels.
- A rebate program for the purchase of renewable energy equipment.
- Landscape design guidelines for city buildings and residences.
- An education plan to make city residents aware of the excellent work CoA is accomplishing with help from the ECC.
- New residential development standards for energy efficiency.
- Environmentally safe products purchased by CoA, whenever possible.
- Net Metering used by CoA to sell on-site generated power to the local utility when production exceeds demand.



Based on requests from our readership, ECC will provide useful definitions from the International Energy Conservation Code Book.

Integrated Part-Load Value (IPLV) A single measure of merit, based on EER or COP expressing part-load efficiency for air-conditioning & heat pump equipment.

Low-Voltage Lighting – Lighting equipment that is powered through a transformer such as cable conductor, rail conductor and track lighting.

*Laurie Roach creates the “Energy Conservation Council” Newsletter.
Your ideas, comments, articles, or notices of upcoming events are welcome.
Please call or email for parameters and deadlines: LREvents@aol.com, (505) 332-0428.*

To add a colleague to the distribution or to UNSUBSCRIBE, please reply to sender
The ECC has open meetings on the third Wednesday of each month.