

Partner Update

November – December 2000

Office of Energy Efficiency and Renewable Energy

Profile

From left, New Mexico Governor Gary Johnson congratulates Rebuild New Mexico Director Peter Alexander on his Green Zia Award.

Rebuild New Mexico Gains Recognition

Peter Alexander of Rebuild New Mexico is a man with vision, always looking toward what could be and not being constrained by what is. The Rebuild New Mexico partnership, which began as a collaboration between the New Mexico Energy, Minerals and Natural Resources Department and Rebuild America, is thriving due to commitment.

Contributing to this success has been Alexander's insistence that the program put its resources where the "rubber meets the road" by providing direct technical assistance to building owners and managers. Alexander built a team of subcontractors who joined him in performing basic assessments and in identifying

Continued on page 5

Wisconsin Partnership Accelerates Activity

The October 1999 passage of a public benefits bill will soon give a big boost to the Wisconsin Energy Initiative's (WEI-2) partnership.

Following a three-year transition period, the legislation will increase Wisconsin's annual budget for Rebuild America energy-efficiency programs to \$100 million. Utilities will contribute a share, as well as rate payers, for demand-side management programs that were formerly initiated by the utilities.

Led by the Wisconsin Department of Administration, Division of Energy, WEI-2 has a strong track record for implementing energy improvements in public and private schools and technical colleges. WEI-2 has completed 18 million square feet of renovations to date, with an additional 115 projects in the pipeline.

Voters in the Appleton, Fond du Lac, Wausau and Eau Claire school districts passed referendums to override state-imposed school revenue caps to make it possible to initiate energy-efficiency projects in their schools. Schools can make



Rooftop photovoltaic panels at Waunakee High School near Madison, WI.

improvements without any up-front capital by taking advantage of WEI-2's 0 percent interest, short-term loan and lease purchase agreement.

"The new funding will offer many options for all the sectors, from residential and multi-family to industrial and agricultural customers," says WEI-2 Program Manager Terry Pease. "I am pleased that schools will have other options to improve their facilities other than asking the voters to accept an increase in property taxes." *Continued on page 3*

Inside This Issue**Visit Our Website:**

www.eren.doe.gov/buildings/rebuild

2 300TH PARTNERSHIP JOINS**2** VIEW FROM DC – REDUCING EMISSIONS**4** STARK FORMS PHA CONSORTIUM**4** NATIONAL FORUM TEAMS WITH GREENPRINTS 2001**6** CALL FOR ENTRIES – ENERGY CHAMPION AWARDS**9** GUAM ENACTS ENERGY-EFFICIENCY CODE

300th Partnership Joins Rebuild America

Rebuild America has blown past its initial goal of signing on 250 partnerships by 2003, reaching the 300th partnership in October 2000. Our 300th partnership hails from Anchorage, AK. The **Facilities Energy Efficiency Program** partnership combines the efforts of the state of Washington, the Alaska Energy Authority and various energy services companies. The partnership hopes to implement energy improvements at five state-owned government facilities. Improvements are slated for installation in spring 2001 and estimated savings are projected to be 10-to-30 percent. Congratulations to the Seattle Regional Office for bringing number 300 on board, and to all of our partnerships for their continuing contributions to Rebuild America's success.

Roll Call

Rebuild America welcomes the following new Business Partners:

- **Baystone Financial Group** - focuses on cost-effective financial solutions for municipal entities, commercial entities and not-for-profit organizations.
- **Energy Masters International (EMI)** - a wholly owned subsidiary of Northern States Power Company that specializes in energy cost savings in cost-effective energy purchasing, building retrofits, lighting upgrades and demand-side management programs.
- **Environmental Support Solutions** - an environmental technology company whose goal is to help organizations develop, implement and maintain world-class environmental regulatory compliance programs.
- **FICO-Facility Improvement Corporation** - provides a full range of HVAC and controls systems design, installation, maintenance, commissioning and diagnostic services to commercial customers to enhance the comfort, efficiency, reliability and safety of their facilities.
- **Precision Lighting (PLI)** - utilizes its patented technology to create energy-efficient, cost-effective and personalized fluorescent lighting environments.
- **Advanced Transformers** - designs, develops, manufactures and sells fluorescent and high-intensity discharge (HID) ballasts for commercial, industrial and institutional lighting.
- **CMS Viron Energy Services** - assists Rebuild America partners in evaluating opportunities for implementing energy conservation projects and for revitalizing facilities.
- **Energy Design & Consulting (EDC)** - serves schools, businesses and industry with strong emphasis on energy management systems, lighting, thermal storage and time-of-use electric rates.
- **Metro Energy Solutions** - provides comprehensive energy services to government and industry.

For more information about Rebuild America Business Partners, contact Doug Avery at 310-798-6927 or email davery@lbl.gov.

2

View from DC

By Mark Bailey & Daniel Sze

Reducing polluting emissions by reducing energy consumption has long been a target of the Rebuild America program. As our partnerships gain momentum in their retrofit activities, there is a proportionate decrease in the volume of emissions that are released into the environment. Our partnerships take an important step in the direction of cleaner air with each building that is retrofitted.

Some of our partnerships have fresh numbers that show us the impact they are having on cleaner air in their communities:

The **Wisconsin Energy Initiative-2** partnership, covered in this issue of *Partner Update*, reports that its retrofit of 18 million square feet statewide has resulted in 23,900 tons of avoided CO₂ emissions. The partnership is saving \$2.3 million in energy costs annually.

Rebuild Iowa reports it has avoided 14,421 tons of emissions and saved \$700,000 annually with the retrofit of commercial, public and industrial buildings.

The **Rebuild Boston Energy Initiative (MA)** has reduced emissions by 11,116 tons with the retrofit of 18 million square feet in the public housing, schools and business sectors.

In Kansas City, MO, Metropolitan Energy Center's **EnergyWorks** partnership has managed to decrease emissions by nearly 33,000 tons with energy improvements to schools, public buildings and street lighting.

Rebuild Duke University Facilities has avoided 11,877 tons of emissions by making energy improvements to 3.25 million square feet of academic buildings on campus. The partnership has completed lighting retrofits campus-wide and is now involved in HVAC improvements.

The **Portland Partners for Energy Efficiency (OR)** partnership has retrofitted over 52 million square feet since 1996, avoiding 98,126.8 tons in CO₂, SO_x and NO_x emissions and saving \$8 million in annual energy costs. Rebuild America is one of several energy-saving initiatives underway in Portland. Despite a growing population, the City reports that its greenhouse gas emissions have decreased 3 percent per capita, from 1990-99. The City's continued

Wisconsin Partnership Activity

Continued from page 1

In designing its program, WEI-2 studied the energy-efficiency programs of other states. "Programs like the U.S. Department of Energy's EnergySmart Schools and ENERGY STAR® have enabled us to extend our energy awareness efforts to all the citizens of Wisconsin," Pease says.

WEI-2's retrofit activity is paying environmental dividends as well. Building improvements have resulted in the avoidance of an estimated 23,900 tons of carbon dioxide. With improvements completed in 160 buildings, WEI-2 is saving 21.9 million kilowatt hours, 2.4 million therms and \$2.3 million annually.

Cooperative Educational Service Agencies in the state assist the Division of Energy by providing services directly to the schools. With 426 school districts, many of which include aging school buildings, there is a desperate need to add staffing to cover the new construction and retrofit projects. "The partnership is in the process of adding additional representatives so that no project escapes us," Pease says. "We live in a large state and want to ensure that people from every corner of the state receive an economic and environmental benefit."

Here are some recent WEI-2 highlights:

Cool Daylighting

The Appleton School District will realize a guaranteed savings of \$118,934 annually for three years by saving 1.15 million kWh hours and 120,738 therms. The district is installing "cool daylighting" in 22 buildings and installing \$3 million worth of digital control systems. Cool daylighting practices are applied to achieve high-quality lighting, control glare and reduce the need for artificial lighting while simultaneously decreasing the need for space heating and cooling. Its successful application provides a solution to the contemporary challenge of managing internally load-dominated buildings. Cool daylighting may reduce the



Madison East High School expects to achieve 20 percent in energy savings by sealing air leaks throughout the building.

energy load of a building to a point where its heating and cooling systems can be downsized, creating additional savings.

The cool daylighting models in the Appleton schools will help create awareness among school officials of the benefits of adopting this energy-saving and comfort-enhancing approach to lighting schools, notes Pease. Meanwhile, the state has become a big proponent of cool daylighting strategies: The Wisconsin Division of Facilities Development plans to introduce cool daylighting to all new state buildings.

Geothermal Heat Pump

Building new, high-performance schools is part of WEI-2's agenda for improving the learning environments of students. One of the largest geoexchange systems in the U.S. is currently being installed in a high school in the Fond du Lac School District. The school will also feature advanced lighting technology, daylighting and heat recovery.

Indoor Air Quality

In the Wausau School District, a 275,000 square-foot high school built in 1968 has undergone a major retrofit to dramatically boost building performance. Long plagued by poor indoor air quality, Wausau West High School now uses 100 percent outdoor air

for heating and cooling. The air quality has improved by 300 percent, according to tests by the Wisconsin Division of Public Health. The new regenerative double-duct HVAC system features indirect and direct heating and cooling using evaporative technology. Pease notes that today the air outside of the school contains more measurable carbon dioxide compared to the air inside the building. Adding to the building's efficiency is a heat recovery system that is 90 percent effective in capturing and redirecting air before it escapes from the building. The school has also managed to cut its natural gas costs in half, saving \$100,000 per year, despite the building's block construction and the absence of any insulation.

"This strategy produces a clean, quiet and comfortable environment for students and staff and is in step with EnergySmart Schools' (ESS) objective to improve the teaching and learning environment" says ESS Technical Advisor **Lorenz (Larry) V. Schoff**, who recently visited Wausau West High. Schoff believes more school board members and administrators would adopt this strategy if they heard about the experiences of the school's staff and students before and after the HVAC system renovation. The school retrofit has been so successful that the Wausau District is looking to apply similar strategies in the design of two new schools.

In the Eau Claire School District in southern Wisconsin, 24 schools are undergoing extensive retrofitting that includes lighting, roofing and other improvements including water conservation measures via a performance contract with Siemens Building Technologies. Six schools have been completed to date with water savings of over 1 million gallons.

For further information, contact Terry Pease at 608-267-797 or Terry.pease@doa.state.wi.us.

Stark Makes Its Move In Deregulated Market

Rebuild Ohio partner Stark Metropolitan Housing Authority (SMHA) is forming a consortium of public housing authorities to take advantage of bulk purchasing opportunities for natural gas and electricity services in the deregulated market. SMHA is coordinating this effort with the Ohio Housing Authority Conference, the Ohio Department of Development, the Midwest Energy Research Center and Rebuild America through Oak Ridge National Laboratory.

Comprised of six Ohio public housing authorities as of October 2000, the consortium is especially advantageous for smaller housing authorities (those with less than 300 units) that want to increase their buying power. Prior to launching the consortium, SMHA pilot tested an aggregate buying arrangement for utility services with Jefferson Housing Authority for an 18-month period.

"We are now ready to apply these concepts on a larger scale," says SMHA Maintenance Director **Mike Williams**.

SMHA plans to structure a bulk purchasing agreement to take advantage of a U.S. Department of Housing and Urban Development incentive that allows public housing authorities to retain 75 percent



Metropolitan Arms, an SMHA seniors' property

of energy savings to invest back into energy-efficiency improvements. The housing authority may broaden participation in its aggregate purchasing consortium by looking beyond the public housing sector. It has

notified neighboring communities of its plans for a consortium and has heard from two small townships that are interested in joining.

"This shows the potential that public housing has for making a positive community contribution," notes Williams. "The townships are not large enough to go out individually and do this."

For more information, contact Cherrie Turner, executive director of SMHA at 330-454-8051 or email info@starkmha.org

National Forum Partners with Greenprints 2001

After our successful forums in San Antonio and Las Vegas, the planning committee for the National Forum 2001 is orchestrating an exceptional event at the Westin Peachtree Plaza in Atlanta, March 13-15.



This year's Forum is unique in that, for the first time, Rebuild America will be partnering with Southface Energy Institute's Greenprints Conference to reach a greater number of people in the energy efficiency and design fields and to expand the scope of the conference. Greenprints 2001 will be held March 15-16.

Southface is a natural choice for collaboration. Established in 1978, the Institute has earned a national reputation for its educational efforts and research in energy, building science and environmental technologies, receiving awards from the U.S. Department of Energy, U.S. Environmental Protection Agency, American Institute of Architects, American Society of Heating, Refrigeration and Air

Conditioning Engineers, American Concrete Institute and the Georgia Environmental Council. Each year, the Institute hosts the Greenprints Conference and Tradeshow for architects, engineers and designers.

The National Forum 2001 and Greenprints 2001 will combine their synergies on March 15. This will be the not-to-miss day, when Rebuild and Greenprints agendas will integrate to offer attendees a day of innovative sessions that

cover new building technologies, sustainable land uses, ecological approaches to town planning, downtown revitalization, rethinking construction waste and the eco-impacts of construction.

The National Forum 2001 promises to be your gateway to connect with people from across the nation who are actively working toward an energy-efficient future for communities and citizens. Be on the lookout for more news of the Forum in upcoming editions of the *Partner Update*, in the electronic *Flash Report* and on the Rebuild America website (www.eren.doe.gov/buildings/rebuild).

For more information about the Rebuild America National Forum 2001, contact Christina Van Vleck at 301-588-4229 or at rebuildamerica@drintl.com. To sign up for the Flash Report, contact Anita Denning at adenning@drintl.com.

Profile

Continued from page 1

energy-efficiency opportunities and strategies. The team assists by drafting requests for proposals and qualifications; identifying suppliers, contractors and financing sources; and reviewing bids and contracts to ensure that each project works for both the partner and the contractor.

"Basically, we're providing a really good one-on-one education, and it pays off – especially in larger facilities," Alexander says.

Since its inception in 1999, the partnership has far exceeded its original goal of assisting municipalities, schools, housing authorities and businesses in reducing energy consumption by implementing energy-efficiency measures into their buildings.

Seeing Beyond Today

Through Rebuild New Mexico, Alexander has shown that Rebuild America can function as a gateway for community projects.

One particularly successful endeavor is a collaborative project called the Youth Conserving Energy (YCE) program, which provides

young people who are at-risk with energy-efficiency vocational training, helping to prepare them for careers that can benefit communities across the state. The YCE program has formed an unusual alliance with the Youthbuild New Mexico Coalition, the San Cristobal Ranch Foundation, Rebuild New Mexico, **Rebuild Central New Mexico**, the City of Albuquerque, and the state's Energy Conservation Office and Youth Conservation Corps.

YCE has touched many lives already, helping students who never completed high school to earn their diploma. Instead of facing a future of minimum wage jobs, YCE provides them with an opportunity to excel in a meaningful and rewarding career. The program consists of an intense classroom curriculum and supervised fieldwork, where students learn the basics of energy-efficiency analysis and remediation. They also learn about political and market issues that impact energy use, prices and policy. The students are paid for their time and receive credit toward their high school diplomas. (*See July-August 2000 Partner Update.*)

Thanks to YCE, **Estevan Jordon**, once a troubled teen with an unclear future, is considering a career in engineering. "I like working with my hands and being active, and I've done a lot already, from roofing to construction and drywall," he says. "This program is giving me a lot of basic knowledge in energy efficiency. Eventually, I want to work in the field of renewable energy, like solar, so I can help reduce

pollution and make the environment better."

According to **Robert Baade**, classroom coordinator for the program, both students and teachers are excited about the program. "Every day we get presentations from volunteer local experts in everything from energy policy to water conservation. It's a lot for the kids to take in, but they're highly motivated to keep up," he says.

A Role Model for the State

Alexander's hard work has not gone unnoticed. At a ceremony on October 4, New Mexico Gov. **Gary Johnson** and Environment Secretary **Pete Maggiore** presented a Green Zia Award to Alexander for the Rebuild New Mexico program, citing in particular its strengths in "Leadership" and "Customer Involvement." The voluntary program is designed to support and assist New Mexico businesses and subscribes to the basic premise that waste is the result of inefficiency and that by reducing waste, an organization can increase its productivity and, therefore, its profits. Green Zia Awards are

presented on three levels: commitment, achievement, and the highest level – excellence. Alexander was especially pleased that his commitment-level Green Zia was awarded specifically for energy efficiency.

"The Rebuild New Mexico program provides free technical assistance and financial advice to help building owners and

managers reduce utility bills while improving building performance," Alexander explained to the 155 attendees as he accepted the award.

Alexander also noted an important new strategic partnership between the Green Zia program and Rebuild New Mexico. "The analytical processes and end results of both programs are complementary," he said. He noted that Rebuild New Mexico and Green Zia have already collaborated to host a workshop at the Santa Fe City Hall, where they identified more than \$200,000 in potential annual energy savings in one building.

To date, the Green Zia program has not yet awarded an excellence level award, which would indicate complete integration of values and systems for environmental improvement into every level and aspect of an organization's operations. Needless to say, Peter Alexander has settled on a new goal.

For further information, contact Peter Alexander at 505-243-5703 or Pat Gallagher of the New Mexico Environment Department at 505- 827-0677.



YCE program participants get hands-on experience in energy efficiency.

Call for Entries: 2001 Energy Champion Awards

At its National Forum 2001, the Rebuild America program will recognize excellence among its partnerships and partners through the Energy Champion Awards. The 2001 Energy Champion Awards present a special opportunity to highlight people and organizations of distinction, and a chance to publicly recognize the hard work and measurable improvements brought to communities nationwide through Rebuild America. The 2001 Energy Champion Awards recognize accomplishments and activities that substantially occurred during the period January 1 - December 31, 2000.

The awards ceremony will occur during the Rebuild America National Forum 2001, March 13-16, 2001, in Atlanta. The winners will be notified in advance. The categories for the 2001 Energy Champion Awards are as follows:

1. Partnership Leader of the Year
2. Partnership of the Year
3. Business Partner of the Year
4. State Partnership Program
5. Commercial Buildings
6. K-12 Schools
7. Universities and Colleges
8. Local Government
9. Public and Affordable Housing
10. Native American Partnership



1999 Energy Champion Award winners pose with Mark Ginsberg, lower right.

Rules

- Entrants must be participants in the Rebuild America program during the year 2000, including individuals and organizations representing partnerships, local partners and Business Partners.
 - You may enter yourself or your organization, or you may nominate another person or organization. You may enter the same person or organization in up to three categories; each entry requires a separate form.



- A panel of judges will evaluate the entries using a point system to determine the winner.
- All entries become the property of the U.S. Department of Energy and will not be returned.

Deadline for Entries: February 1, 2001

How to Enter

- Download an entry form from Rebuild America's web site at www.eren.doe.gov/buildings/rebuild or contact Maureen O'Brien of Potomac Communications Group at mobrien@pcgpr.com or 202-466-7391 to receive an entry form by email or fax.
- For each category entered, submit four copies of both the entry form and a write-up of no more than 850 words that responds to the selection criteria. Entries cannot be submitted electronically. Entries should include relevant supplementary materials such as photographs, outreach materials, letters of commendation, news clippings, etc. Photo prints, slides and digital photos on disk are all acceptable. Each copy of an entry must include an identical set of supplementary materials.
- Send your entry to: Maureen O'Brien, Potomac Communications Group, 2025 M Street, NW, Suite 350, Washington, DC 20036.

Award Categories and Criteria

For a more complete description of the criteria, download an entry form from the Rebuild America web site or contact Potomac Communications Group.

Partnership Leader of the Year

Eligibility: Designated leader or main representative of a Rebuild America partnership

Criteria:

- **Leadership and Commitment** - What steps has the individual taken to shape and lead the partnership toward its goals?
- **Challenges and Solutions** - What challenges has the individual encountered and overcome in their efforts to build an effective partnership and implement energy-saving measures?
- **Partnership Progress/Improvement** - How has the partnership progressed or improved as a result of this individual's efforts?
- **Results** - Indicate gains for the partnership this person leads.



Curt Nichols accepts the 1999 Partnership of the Year Award for the Portland (OR) Partners for Energy Efficiency.

Continued from page 6

Partnership of the Year

Eligibility: Designated Rebuild America partnerships

Criteria:

- **Partnership Progress/Improvement** – How has the partnership progressed and improved since its inception?
- **Challenges and Solutions** – What challenges has the partnership encountered and

overcome in an effort to grow in strategic directions and implement energy-saving measures?

- **Community Improvement/Contributions** – How has this partnership made a difference in its community?
- **Results** – Indicate gains the partnership has produced.

Business Partner of the Year

Eligibility: Designated Rebuild America Business Partner organizations

Criteria:

- **Commitment to Rebuild America** - How has the Business Partner demonstrated a commitment to the program?
- **Program/Partnership Contribution** - What specific contributions has the Business Partner made to the Rebuild America program or to specific partnerships?
- **Value (tangible/intangible) of Service(s) Provided** - Describe how the Business Partner's contribution brought value to the program or to a partnership(s).
- **Results** - Describe any program, partnership or environmental gains (e.g., dollars and energy saved, emissions reduced) that have resulted from the Business Partner's involvement in Rebuild America.

State Partnership Program Award

Eligibility: Partnerships operated by a state government department or agency, such as a state energy office.

Criteria:

- **Leadership and Commitment** - What steps has the partnership taken to shape and lead an effective statewide partnership program?
- **Challenges and Solutions** - What challenges has the

partnership encountered and overcome in its efforts to create an effective statewide partnership network?

- **Partnership Development/Support** - How has the state partnership contributed to helping partnerships in its state develop, grow and succeed?
- **Results** - Indicate gains the state has made overall with the Rebuild America program that can be attributed in part to activities of the state partnership.

Market Sector Awards

Commercial Buildings Award • K-12 Schools Award • Universities and Colleges Award • Local Government Award • Public and Affordable Housing Award • Native American Partnership Award

Eligibility: Rebuild America partnerships and partner organizations active in the designated sectors

Criteria:

- **Partnership Progress/Improvement** - How has the partnership progressed and improved since its inception?
- **Challenges and Solutions** - What challenges has the partnership encountered and overcome in an effort to grow in strategic directions and implement an action plan?
- **Community Improvement/Contributions** - In what ways has the community benefited from the partnership's activities?
- **Results** - Indicate gains the partnership has achieved.



Rebuild America Business Partners and Strategic Partners at the 1999 Forum.

Enter today!

Don't miss this opportunity to highlight your partnership's achievements in implementing energy-saving projects. Visit Rebuild America's web site www.eren.doe.gov/buildings/rebuild to download an entry form or contact Maureen O'Brien of Potomac Communications Group at mobrien@pcgpr.com or phone 202-466-7391.

Briefs

Atlanta Peer Exchange... More than 60 people attended the first Atlanta Regional Peer Exchange in Orlando, FL on September 18-20. Presentations and work groups addressed a variety of topics including the "Seven Habits of Effective Partnerships," EnergySmart Schools, multi-family housing, historic preservation and downtown revitalization. The event offered an opportunity for partnerships from across the southeastern U.S. to share both challenges and the keys to their success. Partnerships and Business Partners worked together to identify actionable solutions. Other activities included a tour of the Nature Conservancy's Disney Wilderness Preserve Conservation Learning Center and Disney's Planning Community Celebration, which highlighted sustainable building practices and traditional neighborhood design. The event was sponsored by Tampa Electric Company and the Florida Gas Transmission Company. *For more information, contact Greg Andrews at 404-562-0573 or greg.andrews@ee.doe.gov.*

Ohio Partners Honored... Stark Metropolitan Housing Authority, partner of **Rebuild Ohio**, and Neighborhood Housing Services, partner of **Rebuild Toledo**, both have been selected to receive a Governor's Award for Excellence in Energy Efficiency for their activities to improve communities through energy efficiency. Gov. **Bob Taft** will present the award in November 2000.



CHA's Sullivan Senior House

CHA Focuses on Seniors... The Chicago Housing Authority (CHA), a Rebuild America partnership, plans to begin comprehensive rehab work at all of its senior properties next year, completing approximately 500 units. By the end of 2003, all 10,000 senior units will be fully rehabbed. The work planned is part of CHA's ambitious 10-year, \$1.5 billion Plan for Transformation to improve its properties and give residents better access to social services. "This plan reflects my belief that we need to take care of our most vulnerable people

first - our seniors, our children and families struggling to find work, raise their kids and improve their lives," says CHA Chief Executive Officer Terry Peterson. "That's what's on the front burner for next year."



Hawaii Partnership Leaders Honored...Rebuild Hawaii Island partnership leader **Ray Carr** and **Rebuild Kauai County** leader **Glenn Sato** have been honored by the Seattle Regional Office for outstanding leadership of their respective partnerships. Carr, energy coordinator for Hawaii County, came through for the County during tough economic times by arranging performance contracts to implement energy conservation measures. As a result, the Hawaii County Building, public safety buildings in Hilo and Kona, and 27 county fire and police stations have all benefited from the energy-efficiency upgrades and the County has received utility rebates on these projects. Sato, energy coordinator for Kauai County, is an energy innovator and proponent of community development through energy efficiency and of performance contracting to finance retrofits. He has helped improve the energy performance of numerous County buildings including base yards, police and fire stations, and 29 neighborhood centers. Sato helps leverage County projects with state funds and federal programs such as Rebuild America, the Federal Energy Management Program and Motor Challenge. His partnership activities have attracted recent press coverage in *The Honolulu Advertiser* and the *Garden Island* newspapers. Rebuild America National Program Manager **Mark Bailey** and the U.S. Department of Energy's Seattle Regional Office Director **Kathy Pierce** presented recognition awards to Carr and Sato in September.

City Light Marks Progress... Rebuild America's **Seattle City Light** partnership celebrated the weatherization of the 1,000th building under the utility's Multifamily Conservation Program on October 11. City Light shares weatherization costs with owners of electrically heated multifamily buildings. The program conserves electricity and reduces the amount of high-priced electricity City Light must buy when demand exceeds the supply of its hydroelectric dams. From 1986 to 1999, the program saved more than 27,000 megawatt-hours, or enough energy to supply power to about 2,700 homes per year in the Seattle City Light service territory. The utility estimates there are about 1,600 more electrically heated multifamily buildings left to be weatherized, with enough potential energy savings to power an additional 4,300 homes per year.

Building Above Code... The Wisconsin Energy Initiative (WEI-2) partnership held its annual symposium on energy efficiency in schools on October 27, drawing 200 participants. This year's symposium presented the many benefits of exceeding the state's energy code in the new construction and rehabilitation of school buildings. The event drew a mix of school administrators, facility managers, lenders, architects, engineers, utility representatives and energy service companies.

Guam Enacts Energy-Efficiency Code

The Guam Energy Office, lead partner of **Rebuild Guam**, has announced the enactment of the Guam Energy Code, an energy-efficient amendment to the island's current building code.

Due to climatic conditions, structures on Guam are designed with more emphasis placed on withstanding weather phenomena such as typhoons and earthquakes. In the past, little or no emphasis was placed on energy efficiency or conservation. With residential electric bills averaging \$400 per month for a 1,500 square-foot home, energy usage has become a major factor in the cost of living and doing business on Guam, according to the Guam Energy Office. Local leaders recognized that lower energy usage and energy costs would result in long-term benefits for the island community and its environment and decided to amend the Guam Building Code with energy-efficient revisions.

Rebuild Guam and the Guam Energy Office, working with the Department of Public Works and Guam Power Authority, co-sponsors of the new energy-efficient amendment, began to revise the building code in 1997. The building code amendments establish minimum energy-efficient requirements for the design and construction of new buildings, those undergoing major renovations, and for new systems and equipment in existing buildings. Funding for this project was provided by a competitive grant from the U.S. Department of Energy. The Department of Public Works began enforcing the new code on November 1, 2000.

In other news, Rebuild Guam and the Guam Energy Office sponsored an energy training seminar at the Hilton Hotel Resort and Spa on September 20-22. **John Taijito**, director of the Guam Energy Office, and **Madeleine Bordallo**, lieutenant governor of Guam, delivered opening remarks. **Charles Eley** of the San Francisco-based Eley & Associates provided training and demonstrated the compliance software. The new code and the software can be downloaded from the new Guam Energy Office web page: www.guamenergy.com. Over 250 professionals, including local architects, engineers, building contractors, real estate developers, government compliance officers and officials from other government agencies, attended the seminar. Local exhibitors were on hand to showcase various energy-saving products that are currently available on the island. *For more information, contact James Mummert of the Guam Energy Office at jammum@netpci.com.*

Midwestern Schools Celebrate Solar

The **1500 Days Central Ohio** partnership, led by **Glen Kizer** of the Foundation for Environmental Education, has helped introduce solar energy to numerous schools. Several schools have hosted successful events to dedicate their new photovoltaic panel arrays. These photos were taken at recent dedications in Ohio and Indiana.



Elaine Barnes of Ohio Energy, a 1500 Days partner, gives teachers pointers on how to teach solar energy to their students. Barnes participated in the solar array dedication at Cuyahoga Falls Elementary School on October 5.



Students at Cuyahoga Falls Elementary School elicit audience participation during a solar quiz show.



Elementary school students sing during the dedication of a solar panel array at Science Central, an educational exhibit center in Fort Wayne, IN. They were joined by Indiana Gov. Frank O'Bannon, Fort Wayne Mayor Graham Richard, Dr. Thomas Fowler-Finn, superintendent of Fort Wayne schools, and many others. The event made a splash with the press, including local television news coverage.

Making Energy Efficiency Work on a Tight Budget

Finding the funds to implement energy-efficiency improvements in public housing can be a challenge for housing authorities on a tight budget. **Rebuild Salisbury (NC)**, led by the Salisbury Housing Authority (SHA) and the Housing Authority of Henry County (HAHC), a partner in **Rebuild Kewanee (IL)**, have managed to persevere with planned energy-efficiency improvements, proceeding on a pay-as-you-go basis in the face of budgetary constraints.

Rebuild Salisbury selects properties for improvement on a "greatest need" basis. Partnership leader **Hilary Edwards**, SHA special programs manager, knew that all of the 559 housing units under their purview could benefit from energy-efficiency improvements. She also had limited funds and decided to begin with properties that housed elderly and disabled residents.

Last Spring, Rebuild Salisbury completed upgrades on a 21-building complex for seniors and disabled persons that has resulted



A SHA property for seniors and disabled persons

in a 22 percent decrease in gas and electric costs. Upgrades included the replacement of electric baseboard heating systems with central gas heating and the installation of new central cooling systems in a complex that had been without air conditioning. New insulation and weatherized doors were installed as well. The addition of air conditioning was needed to reduce vacancies and make the housing units more competitive with the private housing market.

Rebuild Salisbury installed new heating and cooling systems in another seniors housing property built in 1969. The partnership plans to provide new insulation and new weatherized doors when funds become available in about two years.

Next on Rebuild Salisbury's agenda is the 61-unit, multifamily East Lafayette property. The partnership has targeted inefficient 30-year-old heating systems for replacement and plans to install new insulation. SHA expects to save 25 percent in energy costs with

these improvements and reduce maintenance costs as well. The partnership plans to

introduce central air conditioning to the property once funds become available.



HAHC's Fairview development

HAHC Steps up to Plate

HAHC is a charter partner of Rebuild Kewanee, a Rebuild America partnership serving the small town of Kewanee in western Illinois.

Led by the Kewanee Chamber of Commerce, Rebuild Kewanee is taking a multi-tiered approach to addressing local energy issues and is developing programs and incentives to increase awareness among residents and businesses of the benefits of adopting energy-saving practices.

The housing authority, which is responsible for 465 public housing units, is doing its part by making energy-saving upgrades to boost the quality of public housing in Kewanee. Two-thirds of the housing units in its portfolio were built in 1939. HAHC's comprehensive approach to modernization includes evaluating the mechanical, electrical and architectural design of its buildings, and the performance of such components as roofing and windows, to best determine where to focus its efforts.

Despite limited building improvement funds, the HAHC has managed to implement energy-saving measures and make apartment living more comfortable for many residents. HAHC has implemented a number of energy-efficiency measures in four of its developments since January 1999.

Eight buildings at the 172-unit Fairview property have received new boiler systems. About 25 percent of Fairview housing units received low-volume showerheads and toilets, compact fluorescent lighting (CFL) fixtures, and insulation of domestic hot water lines. New efficient gas ranges with electronic ignition replaced old ranges with pilot lights. Ninety units also received new energy-efficient windows.

At the 44-unit Lakeland Terrace property, new energy-efficient, frost-free refrigerators were installed. CFLs replaced incandescent light fixtures at two other properties and additional energy-saving measures are planned once funds become available. Additional plans call for replacing windows at the housing authority's Hollis House and installing a new boiler and domestic hot water heater this spring at the Lincoln House Apartments.

For more information, contact Hilary Edwards of Rebuild Salisbury at 704-636-1410 or email h.edwards.sha@cbiinternet.com or Mark Mikenas of Rebuild Kewanee at 309-852-2175 or email kchamber@kewanee-il.com.

Western Regional Coalition Goes National

In response to feedback from East Coast energy offices, energy services companies (ESCOs), contractors and engineers, the Western Regional Coalition (WRC) has changed both its capacity and name. The newly unveiled Energy Services Coalition (ESC) is intended to serve the entire country in much the same way the WRC served the 18 western states, promoting performance contracting opportunities from a grass roots level.

The ESC's mission is to aid practitioners working at state and community levels to increase the delivery of energy- efficiency services through performance contracting. It is committed to rapidly addressing performance contracting issues that aid project implementation among building owners, state energy offices, ESCOs, finance companies and others.

"This coast-to-coast network will help organizations at all levels see the unity and success of the performance contracting industry," says ESC President **Bret Hunter** of CMS Viron, a Rebuild America Business Partner.

"The beauty is diversity - a large group of people from multiple backgrounds, all trying to accomplish

the same goal: to improve efficiencies and comfort, reduce utility costs, protect the environment and control deferred maintenance issues. This helps everyone across the board from agencies to ESCOs."

The organization is changing its role with Rebuild America as well. On September 19, the ESC signed a strategic partnership agreement with Rebuild America pledging to work with the program to increase the implementation of energy-efficient improvements and upgrades in buildings. By joining Rebuild America as a Strategic Partner, the ESC will complement the work of the National Association of Energy Service Companies, another Strategic Partner that serves as the primary national advocate for the ESCO industry.

The ESC was announced to 40 attendees of a performance contracting conference, co-hosted by Rebuild America and Rebuild New Mexico, on September 18-19 in Albuquerque.

For additional information about the Energy Services Coalition, contact Michael Army at michaelarmy@leonardoacademy.org

View from DC

Continued from page 2

economic growth should help dispel the fears of those who are concerned that a cleaner environment is at odds with economic prosperity.

The good news continues as more partnerships track the impact their activities are having on their communities. In 2000, Rebuild America estimates that its partnerships collectively will avoid over 1.6 million tons in CO₂, SO₂ and NO_x emissions, most of this amount in CO₂ reductions.

By helping to improve air quality, Rebuild America partnerships are making an important contribution to quality of life in communities across the country.



John Devine is Team Leader of DOE's Chicago Regional Office.

Vital Statistics: Lives in Westmont, IL, with his wife, Ruth, and children, Megan, 5, and Kiel, 7.

What experiences led you to your current role with Rebuild

America? I have worked in energy conservation and renewables since 1982. Prior to working for DOE, I worked for Washington State University's Energy Program. Most of my work centered on energy codes, building science research and indoor air quality research.

When the Rebuild Team Lead position opened up last August, I quickly made my interest known. I felt that it represented something different than what I had been doing - instead of working with just buildings, I would be working with people *and* buildings.

What is the most rewarding aspect of your work? Since I've only been with the program a short time, I imagine that seeing projects completed will be the most rewarding aspect. For now, it's fun to advocate energy efficiency by helping to establish partnerships that actively promote and implement energy efficiency throughout the region.

What has been your greatest challenge? Figuring out who everyone is, what everyone does, and whom they work for.

What is your dream job? To be my boss' boss.

What do you enjoy doing with your spare time? Organic gardening and natural landscaping, fishing and spending time with my children.

What have you never tried but would like to? Deep sea diving, because it's a completely different environment and you're flying underwater. The plants and creatures are like nothing on land - they're unique, new and unusual.

If I were to try it, however, I would do it with a great respect for the natural world. I earned a special reverence for nature after being stung on the hand by a stingray while snorkeling in Mexico.

Total Number of Active Partnerships..... **303**

Total Square Feet Committed For Retrofit..... **544** million sq. ft.

Number of States and Territories with Partnerships..... **51**



Everything's coming up solar in Ohio. (See p. 9 of this issue.) Attending a PV array dedication at Cuyahoga Falls Elementary School are, from left: Glen Kizer, 1500 Days Central Ohio partnership; John Devine, Chicago Regional Office; Ohio State Rep. Kevin Coughlin; Mayor Don Robart; Jack Riordan, Ohio Dept. of Development; and Mark Shanahan, Ohio Air Quality Development Authority.

Share Your Success

To submit news or story ideas, contact:

- Elise G. Rand, 202-466-7391, or email erand@pcgpr.com
- Anita Denning, 301-588-9387, or email adenning@drintl.com

To be placed on the mailing list for *Rebuild America Partner Update*, e-mail rebuildamerica@drintl.com.

Rebuild America Welcomes 15 New Partnerships



U.S. Dept. of Energy
Rebuild America

Rebuild America is a network of community partnerships – made up of local governments and businesses – that save money by saving energy. These voluntary partnerships, working with the U.S. Department of Energy, choose the best ways to improve the energy efficiency of commercial, government and apartment buildings. Rebuild America supports them with business and technical tools and customized assistance.

By the year 2003, Rebuild America partnerships will be involved in over 2 billion square feet of building renovations, which will save \$650 million every year in energy costs, generate \$3 billion in private community investment, create 26,000 new private sector jobs, and reduce air pollution by 1.6 million tons of carbon dioxide a year.

Rebuild America
Office of Building Technology,
State and Community Programs
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585-0121

U.S. DEPARTMENT OF
Energy

Address Correction Requested



Printed on Recycled Paper
Check us out: www.eren.doe.gov/buildings/rebuild or 1-800-DOE-3732