

How America's Cities and Counties are Using Federal Energy Block Grants to Create Jobs, Save Energy and Prevent Pollution







Energy Block Grants Work! CAMPAIGN TO SAVE EECBG

Local Government Action – Leading the Way to Promote Clean Energy

America's local governments have led the movement to strengthen American energy independence by reducing energy consumption, deploying clean energy technologies, and fostering green economic development so that clean energy jobs become American jobs. Local

governments are providing leadership on these issues because they are ideally situated to reduce energy consumption and greenhouse gas emissions. Localities are able to set standards and create incentives for enhanced energy efficiency in residential and commercial buildings; lead on transit and smart growth initiatives that reduce fuel consumption; and pioneer innovative financing mechanisms to hasten widespread renewable energy generation deployments. Furthermore, local governments are invested in this debate, because it is local governments that are the first responders who must deal with the impact of climate change. Drought, heat waves, water shortages, wildfires, flooding, rising sea levels, changes in weather patterns, public health threats and economic shifts all pose severe threats to communities in coming years if the challenge of climate change is not met today.

Did You Know?

Commercial and residential buildings consume enormous amounts of electricity and are responsible for more than 40 percent of America's energy consumption. Local governments are best suited to improve building codes and provide financial incentives to increase efficiency and reduce energy use in buildings and houses.

EECBG – A Federal Investment in Creating Local Jobs and Enhancing American Energy Independence

Congress authorized the Energy Efficiency and Conservation Block Grant (EECBG) program in the *Energy Independence and Security Act of 2007* as part of a national strategy to decrease American dependence upon foreign oil. The EECBG program leverages the capabilities of local governments by providing localities throughout the country with the resources to develop and implement ambitious energy efficiency and conservation projects.

The EECBG program encourages local innovation by allowing grantees flexibility in formulating individual projects, but ensures effectiveness by requiring grantees to produce outcomes related to the four primary program goals:

- Lower total energy consumption;
- Create and retain jobs;
- Improve energy efficiency; and
- Reduce carbon pollution.

The American Recovery and Reinvestment Act of 2009 provided the first round of funding for

the EECBG program — a total of \$3.2 billion in formula and competitive grants. In the past year, more than two thousand cities, counties and Indian tribes have received these funds and begun to create substantial benefits for their communities and the nation as a whole. Efficiency improvements are saving local governments, businesses and residents millions of dollars in electricity costs per year; thousands of local green jobs are being created; solar, wind, geothermal, biomass, landfill gas and other resources are being utilized to generate thousands of megawatt-hours of zero-carbon electricity; and hundreds of thousands of metric tons of carbon pollution are being avoided.

Communities throughout the nation are utilizing EECBG funding to actively participate in our nation's economic recovery and its fight to become less dependent on foreign nations for energy production. Many of their stories are detailed in this publication. However, for every community that is profiled here, there are dozens more nationwide implementing similar initiatives.

Did You Know?

The EECBG program was modeled after the U.S. Housing and Urban Development's highly successful Community Development Block Grant (CDBG) program. While the CDBG program enhances local capacity to provide affordable housing and economic opportunities for low and moderate income residents, the EECBG program builds capacity to implement innovative energy programs and projects.

Energy Block Grants Work! Campaign

Led by cities and counties throughout America, the Energy Block Grants Work! campaign is showcasing the contributions that local governments are making to national energy security and economic recovery. The decision of Congress to dedicate \$3.2 billion over the past year to provide additional resources for local energy efficiency and renewable energy projects has led to an explosion of new initiatives in communities throughout the country. Federal funding is being leveraged with local and private funds, enhanced by local ingenuity, and utilized by localities to yield significant decreases in energy consumption, lower electricity bills for millions of Americans, create thousands of new clean energy jobs, and lessen national dependence upon fossil fuels produced abroad.



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Antioch Leverages Federal Funding to Reduce CO₂ Emissions

The City of Antioch, California is investing its Energy Efficiency and Conservation Block Grant (EECBG) funding to complete Phase II of its Building & Street Light Energy Efficient Retrofit project. Honeywell International is managing Antioch's project, and has guaranteed the City annual energy savings in order to ensure that the project reduces Antioch's greenhouse gas emissions while remaining budget-neutral.

Antioch is using EECBG funding to...

- Retrofit 7 City buildings with energyefficient fluorescent lighting.
- Replace 8700 existing High Pressure Sodium street, park and public parking lot lights with Induction Lighting, which will not only reduce energy consumption but also maintenance costs by increasing the service life of these lights fivefold.

Before

Impact on Antioch, CA

- \$600,000 in EECBG funding
- Federal funding leveraged at ratio of 7.7:1
- \$543,000 in annual savings
- 1,825 metric tons of CO2e emissions prevented

After

 Create jobs in the community for local contractors while enhancing light quality throughout the City.

For more information about Antioch's EECBG activities, contact Ron Bernal at (925) 779-6950, or rbernal@ci.antioch.ca.us



Bellflower Combats Climate Change

The City of Bellflower, California is working with Willdan Energy Solutions to improve the City's environmental performance with its Energy Efficiency and Conservation Block Grant (EECBG) funding. Bellflower and Willdan are significantly reducing the City's annual energy consumption through upgrades to the City's HVAC systems, traffic and pedestrian signals and parking lot lighting, as well as enhanced community outreach.

Impact on Bellflower, CA

- \$654,000 in EECBG funding
- More than 157,000 kWh in annual energy savings
- Development of a Climate Action Plan
- Creation of a greenhouse gas inventory

Bellflower is using EECBG funding to...

- Establish a greenhouse gas baseline for the City and **develop a Climate Action Plan** that sets targets for future performance.
- Weatherize its City Hall by removing old and damaged window sealants and re-caulking exterior doors.
- Replace the roof of Bellflower's Thompson Park Community Center with a new ENERGY STAR-compliant roof that will increase solar reflectance from 45 percent to 70 percent.



For more information about Bellflower's EECBG activities, contact Jake Berlin at jberlin@willdan.com



Pico Rivera Works to Reduces Energy Consumption

The City of Pico Rivera, California is working with Willdan Energy Solutions to maximize the impact of its Energy Efficiency and Conservation Block Grant (EECBG) funding. Pico Rivera and Willdan are significantly reducing the City's annual energy consumption through upgrades to the City's HVAC systems, traffic and pedestrian signals and parking lot lighting, as well as enhanced community outreach.

Impact on Pico Rivera, CA

- \$579,400 in EECBG funding
- 437 traffic/pedestrian signal lights replaced with LED lights
- 5 obsolete HVAC units at municipal facilities replaced

Pico Rivera is using EECBG funding to...

- Replace 437 of its existing incandescent traffic/pedestrian signal lights with high-efficiency LED lights.
- Launch a community outreach program that will educate residents on energy conservation and help them make more informed energy choices.
- **Upgrade five outdated HVAC units** at three City-owned facilities to enhance energy efficiency.



For more information about Pico Rivera's EECBG activities, contact Jake Berlin at iberlin@willdan.com



Sacramento County Prevents Pollution with Clean Energy

Sacramento County, California is utilizing its Energy Efficiency and Conservation Block Grant (EECBG) funding to build upon regional sustainability efforts, while working aggressively to reduce energy consumption within the community. The County has already leveraged its EECBG funding to obtain a \$16.5 million award from the California Energy Commission to serve as a demonstration community for "CaliforniaFIRST" — the first statewide Property Assessed Clean Energy financing program in the nation.

Sacramento County is using EECBG funding to...

- Establish a revolving loan fund for energy efficiency retrofits at County-owned facilities that will reduce energy consumption by implementing short-term payback retrofit projects.
- Partner with Sacramento International Airport to install a 1
 MW cogeneration system that will produce electricity for
 airport operations while also cooling the airport through a
 waste-heat absorption chiller.
- Launch a countywide Streetlight Conversion Project to convert
 1,300 outdated and inefficient high pressure sodium and mercury vapor streetlights to highly-efficient LED technology.

For more information about Sacramento County's EECBG activities, contact Cecilia Jensen at (916) 875-3077, or jensenc@saccounty.net

Impact on Sacramento County, CA

- \$5.4 million in EECBG funding
- Over 311 metric tons of CO2e emissions prevented
- 1 MW CHP system installed

Before After



Sonoma County Conserves Energy

Sonoma County, California is using its Energy Efficiency and Conservation Block Grant (EECBG) funding to enhance regional collaboration on energy efficiency initiatives and invest in clean energy. In order to enhance the impact of this funding, Sonoma is partnering with area cities to develop a regional residential energy efficiency retrofit program.

Sonoma County is using EECBG funding to...

Impact on Sonoma County, CA

- \$1.98 million in EECBG funding
- 750 kW of renewable generation capacity deployed
- 14 electric vehicle charging stations installed
- Deploy a 750 kW solar array at the County's juvenile detention facility, which will both reduce the County's carbon footprint and promote clean energy generation within the Sonoma community.
- Install a total of 14 electric vehicle charging stations on County-owned properties to promote transportation electrification within Sonoma.
- Implement Xeriscaping projects at Veterans Buildings throughout the county in order to conserve water and reduce maintenance while preserving natural habitats in the region.



For more information about Sonoma County's EECBG activities, contact John Haig at (707) 565-6167, or ihaig@sonoma-county.org



Wilmington Uses Performance Contracting to Leverage Funds 18:1

The City of Wilmington, Delaware is investing its Energy Efficiency and Conservation Block Grant (EECBG) funding to install 3,400 solar panels as part of a broader \$14.5 million energy retrofit and renewable energy program that will decrease utility costs and greenhouse gas emissions tied to City-owned facilities and infrastructure. Wilmington has also managed to highly leverage its EECBG funding by entering into a 20-year performance contract with Honeywell International that guarantees \$1.14 million in annual energy savings and projects an additional \$16 million in savings above the minimum guaranteed level over the length of the contract — leveraging EECBG funds at a ratio of 18:1.

Impact on Wilmington, DE

- \$800,600 in EECBG funding
- Federal funding leveraged at ratio of 18:1
- 4.4 million metric tons of CO2e emissions prevented
- 3,400 solar panels installed

Wilmington is using EECBG funding to...

- Supplement an existing \$14.5 million initiative to conduct energy efficiency retrofits and install renewable energy technologies on municipal facilities – including 3,400 solar panels.
- Utilize performance contracting in order to not only produce significant financial savings but also reduce electricity consumption by 2.8 million kilowatt-hours a year.
- Meet its environmental commitments under the U.S. Conference of Mayors Climate Protection Agreement.



For more information about Wilmington's EECBG activities, contact Aaron Parker at (763) 954-4257, or Aaron.Parker@honeywell.com



Clearwater Leverages EECBG Funds to Save Millions of Dollars

The City of Clearwater, Florida is investing its Energy Efficiency and Conservation Block Grant (EECBG) funding in a comprehenisve performance contract to significantly reduce the City's energy consumption and mitigate its carbon footprint. The performance contract was awarded to Honeywell International and is projected to result in an average annual energy savings of \$281,000, for a total of \$4,217,851 over the 15 year term period.

Impact on Clearwater, FL

- \$463,400 in EECBG funding
- Leveraged federal funds at 7.5:1 ratio
- More than \$281,000 in average yearly savings
- 38 jobs to be created

Clearwater is using EECBG funding to...

- Install highly efficient HVAC equipment in municipal facilities to provide significant energy savings and reduce the City's carbon footprint.
- Upgrade light fixtures and ballast in municipal facilities to utilize highly efficient fluorescent bulbs, occupancy sensors to reduce light usage, and programmed 365-day time clocks to control outdoor lighting.
- Deploy full building manager program in 20 municipal facilities to give remote, centralized control over thermostats to approved City employees, enabling finer control over heating and cooling systems.



For more information about Clearwater's EECBG activities, contact Bueno Prades at (407) 909-9344, or Bueno.Prades@honeywell.com



Cedar Rapids is Building a More Sustainable Future

The City of Cedar Rapids, IA is working with HDR to ensure that its Energy Efficiency and Conservation Block Grant (EECBG) funding provides cost-effective reductions in energy consumption and greenhouse gas emissions. Drawing upon the technical expertise provided by HDR, Cedar Rapids has developed a City-wide strategy for improving energy efficiency and enhancing sustainability.

Cedar Rapids is using EECBG funding to...

- Develop and begin implementation of LEED standards to guide the rehabilitation and new construction of municipal facilities.
- Study the feasibility of replacing an incinerator at Cedar Rapids' Water Pollution Control Facility, damaged during a devastating 2008 flood, with a more efficient waste-to-energy incinerator.
- Upgrade lighting and controls in municipal buildings to reduce energy consumption and lower greenhouse gas emissions.

Impact on Cedar Rapids, IA

- \$1.5 million in EECBG funding
- 24,056 metric tons of CO2e prevented annually
- 15 jobs to be created
- More than 20,000 MWh of electricity saved annually



For more information about Cedar Rapids' EECBG activities, contact Patrick Ball at (319) 286-5910, or p.ball@cedar-rapids.org



Dubuque Enhances Sustainability

The City of Dubuque, Iowa is **leveraging regional public-private partnerships** to amplify the potential benefits of their Energy Efficiency and Conservation Block Grant (EECBG) funding. Through projects that emphasize education, awareness of personal energy consumption and improved energy standards, Dubuque continues to make progress towards a more sustainable future.

Dubuque is using EECBG funding to...

- Partner with IBM and local utilities to make Dubuque a
 demonstration "Smart City" a comprehensive and ambitious
 initiative that will create a national model for reducing energy consumption, vehicle miles
 traveled, and greenhouse gas emissions in cities with populations under 200,000.
- Establish a Commercial Building Revolving Loan
 Fund that provides financing for business owners to install ENERGY STAR-certified mechanicals and appliances.
- Leverage State of Iowa funding to create a Sustainability Education and Training program that will build the community's technical capacity to conduct energy efficiency retrofits and help foster local job creation.

Impact on Dubuque, IA

- \$574,700 in EECBG funding
- 5992 metric tons of CO2e emissions prevented
- 16 jobs to be created or retained



For more information about Dubuque's EECBG activities, contact Cori Burbach at (563) 589-4110, or cburbach@cityofdubuque.org



Montgomery County Accelerates Energy Efficiency Programs

Montgomery County, Maryland is utilizing its Energy Efficiency and Conservation Block Grant (EECBG) funding to launch coordinated programs providing education on energy efficiency, workforce training, and a variety of building retrofits to help achieve the County's climate and energy goals. Each EECBG-funded program is fully scalable and designed to be as sustainable as possible.

Montgomery County is using EECBG funding to...

- Install energy-efficiency and renewable energy improvements across residential, multi-family and commercial buildings using loans, grants, and funded retrofits of government buildings and affordable housing.
- Train tomorrow's energy workforce including auditors and building operators, and educate businesses and residents on energy efficient practices.
- Provide a "boots on the ground" network of mentors, through the Energy Community Leaders Program, to leverage peer relationships and accelerate behavior change in diverse communities.

For more information about Montgomery County's EECBG activities, contact Eric Coffman at (240) 777-7754 or Eric.Coffman@montgomerycountymd.gov

Impact on Montgomery County, MD

- \$7.6 million in EECBG funding
- Hundreds homes, businesses, and public buildings expected to be retrofitted.
- Broad training and education in energy efficiency and sustainability





Washtenaw County Builds Regional Capacity to Save Energy

Washtenaw County, Michigan has leveraged its Energy Efficiency and Conservation Block Grant (EECBG) funding to strengthen regional capacity for energy efficiency initiatives. This strategy is already paying lucrative dividends. The Southeast Michigan Regional Energy Office – established with formula EECBG funds from Washtenaw and other nearby municipalities – recently partnered with Michigan Department of Energy, Labor and Economic Growth to obtain a \$30 million EECBG Retrofit Ramp-Up grant from the U.S. Department of Energy.

Washtenaw County is using EECBG funding to...

- Install a demonstration solar photovoltaic system that will not only produce zero-carbon renewable energy, but also serve as a catalyst to enhance public education about solar energy throughout the County.
- Create a Community-Wide Energy Financing Program to provide low-cost financing to homeowners for investments in distributed renewable generation or energy efficiency retrofits.
- Enhance regional cooperation by establishing the Southeast Michigan Regional Energy Office and developing a Comprehensive Washtenaw County Energy Policy.

Impact on Washtenaw County, MI

- \$766,690 in EECBG funding
- 39 jobs to be created or retained
- Up to 7,500 metric tons of CO2e emissions prevented annually
- An estimated 7,426 MWh of electricity saved





For more information about Washtenaw County's EECBG activities, contact Brett Lenart at (734) 222-3860, or lenartb@ewashtenaw.org



Kalispell Saves Energy and Money

The City of Kalispell, Montana is utilizing its Energy Efficiency and Conservation Block Grant (EECBG) funding to strengthen its ongoing efforts to reduce energy consumption and forge partnerships with local organizations and small businesses. While the City is already underway with several major energy efficiency initiatives, it continues to use EECBG funding to leverage resources from different sectors throughout the community.

Kalispell is using EECBG funding to...

- Conduct energy efficiency retrofits for multiple municipal facilities, to improve space utilization, reduce energy
 - costs and lengthen the lifespan of City infrastructure.
- Complete a local initiative to implement efficiency upgrades with short payback periods, including installations of LED lighting.
- Establish and maintain partnerships with organizations from multiple sectors including grassroots community organizations, local educational institutions, and companies invested in emerging technologies.

Impact on Kalispell, MT

- \$200,000 in EECBG funding
- Reduced municipal energy costs
- Enhanced partnership with community organizations



For more information about Kalispell's EECBG activities, contact Jane Howington at (406) 758-7701, or jhowington@kalispell.com



Raleigh Invests in Green Technologies

The City of Raleigh, North Carolina is currently implementing eleven projects with Energy Efficiency and Conservation Block Grant (EECBG) funding. By emphasizing increased energy awareness throughout residential communities, as well as instituting energy efficiency measures in municipal buildings, Raleigh is emerging as a leader in sustainability action.

Raleigh is using EECBG funding to...

- Organize a Green Buildings Training Series, which targets the construction industry by offering classes on greening development projects, including green plumbing, performing energy audits, and LEED and BPI standards.
- Install two electric vehicle charging stations and deploy seven electric vehicles within the city, as part of a multi-community pilot program in North Carolina.
- Establish a building retrofit program that has already resulted in the deployment of 22 solar thermal water heating stations at fire stations throughout Raleigh to help manage energy use and increase resource efficiency.

For more information about Raleigh's EECBG activities, contact Paula Thomas at (919) 996-4658, or paula.thomas@ci.raleigh.nc.us

Impact on Raleigh, NC

- \$3.8 million in EECBG funding
- 2,050 kWh of renewable energy produced
- Goal of LEED Silver certification for all new municipal buildings larger than 10,000 square feet





Memphis Helps Residents Save on Energy Bills

The City of Memphis, Tennessee is currently implementing four projects with Energy Efficiency and Conservation Block Grant (EECBG) funding. By helping low- and moderate-income residents upgrade the energy efficiency of their homes, **Memphis is ensuring its EECBG funding makes a difference to those who need it most**.

Memphis is using EECBG funding to...

- Partner with Memphis Light, Gas and Water to provide energy efficiency improvements to moderate-income homeowners, an initiative that is expected to assist Memphis residents in reducing their heating and cooling costs.
- Establish a 1.0-1.5 MW capacity cogeneration facility designed to process waste gases into renewable energy and consequently reduce the city's greenhouse gas emissions.
- Offer at no cost the replacement of old manual thermostats with new, more energy efficiency programmable thermostats in residential areas, in an effort to reduce heating and cooling costs in impacted households by approximately 10% annually.

For more information about Memphis' EECBG activities, contact Pamela Jackson at (901) 636-6535, or Pamela.jackson@memphistn.gov

Impact on Memphis, TN

- \$6.76 million in EECBG funding
- 39 jobs to be created
- 17,168 metric tons of CO2e emissions prevented
- 20 million kWh/year of renewable energy generated





Corpus Christi Reduces Energy Consumption from Vehicles

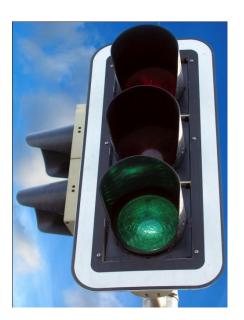
The City of Corpus Christi, Texas is utilizing its Energy Efficiency and Conservation Block Grant (EECBG) funding to build local capacity for energy efficiency initiatives and make common-sense improvements to reduce energy consumption. Working with the assistance of HDR, Corpus Christi held workshops with community stakeholders and gathered local input to develop a comprehensive City-wide energy efficiency strategy.

Corpus Christi is using EECBG funding to...

- Improve the coordination and timing of City traffic signals in order to reduce the number of vehicles idling at stoplights and avoid unnecessary greenhouse gas emissions.
- Convert municipal vehicles to run on Compressed Natural Gas and use Compressed Nitrogen to fill vehicle tires, saving tens of thousands of gallons of unleaded gasoline annually.
- Offer rebates to residents that purchase high-efficiency toilets in order to drastically reduce the amount of water wasted annually in Corpus Christi.

Impact on Corpus Christi, TX

- \$2.8 million in EECBG funding
- 25,920 metric tons of CO2e prevented annually
- 34 jobs to be created
- Nearly 50,000 MWh of electricity saved annually



For more information about Corpus Christi's EECBG activities, contact Oscar Martinez at (361) 826-3897, or oscarm@cctexas.com



McKinney Takes a Comprehensive Approach to Sustainability

The City of McKinney, Texas has contracted with HDR to develop a comprehensive strategy for reducing energy consumption throughout the City with their Energy Efficiency and Conservation Block Grant (EECBG) funding. By laying the groundwork with **preliminary visioning workshops conducted years before EECBG funding became available**, McKinney was able to quickly develop and being implementing a series of innovative projects to enhance local sustainability.

McKinney is using EECBG funding to...

- Determine the City's energy consumption baseline and set realistic goals for reducing energy usage across multiple sectors.
- Commence an Urban Forest Study that will increase utilization of greenspace and green infrastructure throughout the City.
- Develop a City-wide Bicycle and Pedestrian Master Plan, to enhance the transportation options open to McKinney residents.

Impact on McKinney, TX

- \$1.1 million in EECBG funding
- 11,431 metric tons of CO2e prevented annually
- 14 jobs to be created
- More than 20,000 MWh of electricity saved annually



For more information about McKinney's EECBG activities, contact Julie Smith at (972) 547-7616, or jsmith2@mckinneytexas.org



Loudoun County Creates Green Jobs

Loudoun County, Virginia is investing its Energy Efficiency and Conservation Block Grant (EECBG) funding to ensure that the clean energy economy of the future begins in Loudoun today. Loudoun County has already used EECBG funds to create a County Energy Strategy that was **selected to serve as a national model of community-wide energy planning** by the National Association of Counties.

Loudoun County is using EECBG funding to...

- Deploy LED lights, powered by photovoltaic solar panels, on light
 poles integrated with plug-in electrical vehicle charging stations thus
 powering zero-emission vehicles and energy efficient lights with renewable energy.
- Educate County residents and businesses about how they can save money through energy efficiency upgrades and incentivize innovative methods of reducing energy consumption through initiatives like the "Green Business Challenge," which recognizes companies that are dedicated to sustainability.
- Commence studies that will analyze data center energy usage and the feasibility of installing a combined heat and power system in Loudoun, so that the County will be positioned to leverage local, private and federal funding and realize significant gains in energy efficiency and greenhouse gas reductions.

Impact on Loudoun County, VA

- \$2.21 million in EECBG funding
- 220 kW of renewable generation installed
- More than \$125,000 in annual savings
- 68 jobs to be created
- 942 metric tons of CO2e emissions prevented



For more information about Loudoun County's EECBG activities, contact Najib Salehi at (703) 737-8442, or najib.salehi@loudoun.gov



King County Leverages Millions for Clean Energy

King County, Washington is working with a wide variety of local and private sector partners to enhance the impact of its Energy Efficiency and Conservation Block Grant (EECBG) funding. Altogether, King County expects to implement a total of 23 separate projects to enhance energy efficiency, encourage the demonstration of innovative new clean energy technologies, and speed the transformation of Northwest Washington's transportation sector.

King County is using EECBG funding to...

- Install electric vehicle charging stations at County facilities, part of a \$20 million regional initiative with the Cities of Seattle and Bellevue, Ecotality, and Nissan, as well as a second USDOE funded project with Charge Northwest that will leverage federal, local and private funding to support the widespread electrification of the Puget Sound region's transportation section.
- Partner with Farm Power Northwest to demonstrate anaerobic digestion technology that will generate renewable energy using manure produced at dairy farms in King County.
- Upgrade the energy efficiency of new affordable housing units, saving some King County low-income residents thousands of dollars on their annual electricity bills, while reducing energy consumption and preventing greenhouse gas emissions.

Impact on King County, WA

- \$6.14 million in EECBG funding
- ~\$25 million in federal/local/private funding leveraged
- More than \$430,000 in annual savings
- 162 jobs to be created or retained



For more information about King County's EECBG activities, contact David Morrison at (206) 684-2154, or david.morrison@kingcounty.gov