



## COUNTY BOARD ADDENDUM

*County of Champaign, Urbana, Illinois*  
*Thursday, December 17, 2009 – 7:00 p.m.*

---

*Lyle Shields Meeting Room, Brookens Administrative Center*  
*1776 East Washington Street, Urbana, Illinois*

### **XI. Committee Reports:**

#### **D. Finance Committee:**

9. \*\*Adoption of Resolution No. 7239 – Emergency Budget Amendment #09-00115  
Fund/Dept: 613 Court Automation Fund/030 Circuit Clerk  
Increased Appropriation: \$25,000  
Increased Revenue: \$0  
Reason: To appropriate funding required to pay portion of salary for Courts  
Technology Coordinator position.
10. Adoption of Resolution No. 7240 Authorizing Champaign County Application for  
Energy Efficiency Conservation Block Grant on Behalf of Champaign County Schools

\*Roll Call  
\*\*Roll call and 18 votes  
\*\*\*Roll call and 21 votes  
\*\*\*\*Roll call and 14 votes

Except as otherwise stated, approval requires the vote of a majority of those County Board members present.

*County Board members and guests are encouraged to park in the north parking lot, off Lierman Avenue, and enter the Brookens facility through the north door. The Brookens Administrative Center is an accessible facility.  
For additional information, contact Kay Rhodes in the County Administrator's Office at (217) 384-3776*

RESOLUTION NO. 7239  
EMERGENCY BUDGET AMENDMENT

December 2009

FY 2009

WHEREAS, an immediate emergency exists within the following fund; and

WHEREAS, the following amendment has not been approved by the Finance Committee, and the department has requested immediate action by the County Board;

NOW, THEREFORE, BE IT RESOLVED that the Champaign County Board approves the following amendment within the 2008-2009 budget; and

BE IT FURTHER RESOLVED that the County Auditor be authorized and is hereby requested to make the following amendment to the 2008-2009 budget.

Budget Amendment #09-00115

Fund 613 Court's Automation Fund  
Dept. 030 Circuit Clerk

<u>ACCOUNT DESCRIPTION</u>		<u>AMOUNT</u>
Increased Appropriations:		
533.29 Computer Services		<u>\$25,000</u>
	Total	\$25,000
Increased Revenue:		
None: from Fund Balance		<u>\$0</u>
	Total	\$0

REASON: To cover shortage created by paying Automation's share of Kirk Bedwell's salary last March.

PRESENTED, ADOPTED, APPROVED AND RECORDED this 17<sup>th</sup> day of December, A.D.  
2009.

\_\_\_\_\_  
C. Pius Weibel, Chair  
Champaign County Board

ATTEST: \_\_\_\_\_  
Mark Shelden, County Clerk  
and ex-officio Clerk of the  
Champaign County Board

FUND 613 COURT'S AUTOMATION FUND DEPARTMENT 030 CIRCUIT CLERK

INCREASED APPROPRIATIONS:

ACCT. NUMBER & TITLE	BEGINNING BUDGET AS OF 12/1	CURRENT BUDGET	BUDGET IF REQUEST IS APPROVED	INCREASE (DECREASE) REQUESTED
613-030-533.29 COMPUTER SERVICES	25,000	5,000	30,000	25,000
TOTALS	25,000	5,000	30,000	25,000

INCREASED REVENUE BUDGET:

ACCT. NUMBER & TITLE	BEGINNING BUDGET AS OF 12/1	CURRENT BUDGET	BUDGET IF REQUEST IS APPROVED	INCREASE (DECREASE) REQUESTED
None: from Fund Balance				
TOTALS	0	0	0	0

EXPLANATION: TO COVER SHORTAGE CREATED BY PAYING AUTOMATION'S SHARE OF KIRK BEDWELL'S ALARY LAST MARCH.

DATE SUBMITTED: 12-15-09 AUTHORIZED SIGNATURE: *Heidi S. French* \*\* PLEASE SIGN IN BLUE INK \*\*

APPROVED BY BUDGET & FINANCE COMMITTEE: DATE:


**RESOLUTION NO. 7240**

**RESOLUTION AUTHORIZING CHAMPAIGN COUNTY APPLICATION FOR ENERGY EFFICIENCY CONSERVATION BLOCK GRANT ON BEHALF OF CHAMPAIGN COUNTY SCHOOLS**

**WHEREAS**, the Champaign County Regional Planning Commission, in working with Champaign County school districts, seeks to apply for a Department of Energy Grant to provide the school districts in Champaign County funding support for energy efficiency projects currently being planned by the various school districts; and

**WHEREAS**, the proposed Champaign County Energy Efficiency Retrofit Program documented in the Department of Energy Grant Application represents a small scale model for rural communities to fund energy efficiency retrofits in the public school facilities leveraging dedicated sales tax revenue with the Energy Efficiency Grants;

**WHEREAS**, the recent passage of the Schools Facilities Sales Tax in Champaign County affords all fourteen Champaign County School Districts revenue required to leverage the funds available through the Department of Energy Block Grants;

**NOW, THEREFORE, BE IT RESOLVED**, by the Champaign County Board, that it approves the application for, and if awarded, acceptance of the Department of Energy – Energy Efficiency Conservation Block Grant on behalf of the Champaign County Schools; and

**BE IT FURTHER RESOLVED**, by the Champaign County Board that County Board Chair, C. Pius Weibel, is hereby authorized to execute said grant award documents upon receipt from the Department of Energy.

**PRESENTED, ADOPTED, APPROVED and RECORDED** this 17<sup>th</sup> day of December, A.D. 2009.

ATTEST:

---

C. Pius Weibel, Chair  
Champaign County Board

---

Mark Shelden, County Clerk and *Ex-Officio*  
Clerk of the Champaign County Board

## Project Narrative

---

### Goals and Objectives of Project

Champaign County Retrofit Ramp-Up Program for the local school districts within the County will serve as a national model demonstrating how small rural local governments, , can reduce energy usage and encourage reduction in Greenhouse Gases (GHG) across diverse communities and prove effective players in fundamentally and permanently transforming energy markets. By combining the unique voice and position that local governments play in the daily lives of their constituents with the strategic planning and implementation taking place at the state and national level; these energy initiatives will have a have a real impact on meeting our Country's aggressive energy reduction goals

The Champaign County Energy Efficiency Retrofit Program offers the Department of Energy:

- A small scale model for rural communities to fund energy efficiency retrofits in the public school facilities leveraging dedicated sales tax revenue with Energy Efficiency Grants

Market transformation strategies that have been given consensus through a collaborative process involving Regional Planning Commissions, Energy service Companies, and local school districts. "IOUs")

- Coordination with over 14 school districts within Champaign County . Participating school districts will play an active role in promoting green jobs within their respective communities.
- Finally, the Champaign County Energy Efficiency Program team assures the right mix of experience, expertise and knowledge of the community to effectively meet the Program's objectives.

Champaign County, Illinois is located in the heart of East Central Illinois, at Latitude 40.14030 North, Longitude 88.19610 West. US Interstates 57, 72 & 74 intersect in the County which puts Champaign County approximately 2 hours south of Chicago Illinois; 3 hours north-northeast of St. Louis, Missouri; and 2 hours west of Indianapolis, Indiana.

Champaign County was incorporated on February 20, 1833. Township form of government was adopted in 1859. The County Board currently has 9 Districts, with three members representing each District for a total of 27 Board members. The County Board Chair is elected from the Board members. The County currently has an Administrator hired by the County Board to oversee the day-to-day operations of the County.

Champaign County is a leader in education, health care, government, high technology, light industry and agriculture. Champaign County comprises 1008 square miles, the majority of which are involved in agriculture.

The 2000 US Census lists Champaign County as the 11th largest County in the State of Illinois with a population of 186,800. The largest urban areas in the County are the City of Champaign (67,518), the City of Urbana (36,595), and the Village of Rantoul (12,857).

Champaign County Regional Planning Commission (RPC) is an intergovernmental membership organization that provides and administers a variety of planning, community & economic development, early childhood education, and social services for Champaign and surrounding counties. As a multi-purpose agency RPC delivers 100 different programs and services with an annual operating budget of about \$20+ million and a staff of

approximately 180 employees. The RPC administers grants for the County and year to date has overseen the distribution of \$16 million~~xxxx~~ in Grant funds from Federal, State and Local entities.

The school districts of Champaign County, particularly in the larger cities of the County, are predominantly older buildings with outdated energy systems that are inefficient. Increases in property taxes have traditionally been the method of funding school capital projects. This requires a vote of the people in a xxx ratio and it has been difficult to obtain voter approval over the years. On April 7 Champaign County passed a referendum for the school districts within the County that increases sales taxes by one percent for all residents living in Champaign County. The referendum stated "*Shall Champaign County be authorized to impose a retailers' occupation tax and a service occupation tax (commonly referred to as a "sales tax") at a rate of 1 percent to be used exclusively for school facility purposes?*"

The RPC is seeking a Department of Energy grant to provide the school districts n Champaign County funding support for energy efficiency projects currently being planned by the various school districts. Projections are that the sales tax will bring in an additional 18 million dollars annually for Champaign County school district facilities?. Proposed projects include installing energy-efficient air conditioning systems, lighting, and other energy efficiency measures. The County has identified the Unit 4 School District (Champaign) as a qualified sub grant recipient and the information related to their projects are contained in this proposal. The Unit 116 (Urbana) District and Unit x (Rantoul) have been identified as Districts currently in the process of auditing their facilities and selecting energy service companies. The other school districts in Champaign County will be required by RPC to submit plans/projects when they are ready to go in a manner similar to the plans/projects contained in this proposal for the Unit 4 energy efficiency retrofit program. The RPC expects both Rantoul and Urbana to be in position to qualify for a sub grant award in 2010.

RPC is requesting a total block grant of \$3,520,350,000 to be distributed as follows:

Unit 4 School District – \$1,600,000.

Remaining School Districts in County - \$1,600,000

RPC administration costs - \$320,000~~+50,000~~

The RPC Energy Efficiency Grant program for the Champaign County schools will leverage the sales tax money being allocated to the various districts beginning January 1 2010. The RPC Energy efficiency Grant program will provide a game changing effect on the amount of carbon emission reductions and energy savings achieved by the school districts in Champaign County. The ability to utilize the grants with leverage from the sales tax creates a larger operational savings ratio for the school districts and allow for future long term planning for energy efficiency retrofit investment financed by a combination of future sales tax revenue and operational savings achieved by the RPC energy efficiency grant program.

The Unit 4 allocation of \$1.6 million of the grant and its purposes and objectives are described below:

#### Champaign Schools Energy Efficiency Plan

The Champaign Community Unit School District #4 has assessed the needs of its existing school buildings and has developed a comprehensive infrastructure improvement implementation plan that is ready-to-go and can be completed by February 17, 2012. With funding through this grant program, the district can address the greatest needs of its oldest schools and save energy and substantial operations and

maintenance cost savings and reduce the risk of critical equipment failure (many of the boilers are original and have far exceeded their useful life).

With the availability of this grant, the district would proceed forward on the installation of renewable technologies such as geothermal heating and cooling systems to Bottenfield, Robeson, Westview and Kenwood, (Elementary Schools) where such projects have been deemed feasible. Geothermal systems not only provide heating and cooling for a lower energy cost than heating alone with a conventional system, they provide the opportunity to upgrade the existing electrical systems (thereby addressing inadequate technology systems) as well as the building control systems (providing much-needed remote monitoring and control for a district of this size). The district has already embraced this renewable technology and has completed a geothermal project at Garden Hills Elementary School.

The benefits of the district’s School Modernization Plan include:

- ✓ Modernization of the district’s oldest schools
- ✓ Reduction of energy and operating costs in a challenging economic environment
- ✓ Reducing expenses can reduce the need to cut programs and possibly jobs
- ✓ Reducing the risk of critical equipment failure and school shutdowns
- ✓ Improving the overall learning environment for existing and future students
- ✓ Construction projects of this magnitude stimulate the economy by providing the opportunity to purchase local goods and services

## Merit Review Criteria Discussion

---

### Criterion 1: Project Impact

Champaign Community Unit 4’s Comprehensive District-Wide Energy Efficiency and Safety Plan can be completed by February 17, 2012. These projects are “shovel ready”. The investment in energy efficiency improvements in the District’s buildings will reduce energy costs and maintenance cost savings and reduce the likelihood of critical equipment failure. Most importantly, however, all students in this very diverse, urban school district (56%/44% minority-non-minority make-up) will have an improved opportunity to learn in high performance facilities with safe and comfortable learning environments that result in the highest academic performance possible. Students at Garden Hills participated in “on site” class participation for the geothermal project recently completed there learning the valuable lessons of preserving our environment and energy efficiency technology. Unit 4 intends to replicate this class involvement at the Elementary Schools described in this proposal.

Unit 4 intends to enter the second phase of their energy efficiency program leveraging their sales tax revenue through the issuance of municipal bonds. As part of a larger bond issue to fund new construction and extensive renovation of two schools in the predominantly minority neighborhoods of Champaign, a portion of the bond proceeds will be allocated to the district’s energy efficiency program. Specifically four schools Bottenfield, Robeson, Westview, and Kenwood will undergo retrofits with a total project budget of approximately \$8.7 million. After the success of its phase one project at Garden Hills Elementary School, the District is launching the second phase with these 4 schools. With this type of large ramp up from one school to four the Districts plan to retrofit all of the xx Elementary Schools over the next 5-10 years will be accelerated with the \$1.6 million in grant proceeds providing extra projects when leveraged with proceeds from the Unit 4 bond issue scheduled to be sold in February A portion of the future sales tax revenue allocated to Unit 4 will be applied to the District’s energy efficiency program.

By leveraging the grant proceeds with sales tax bond proceeds in the second phase, the District will achieve a higher operational annual budget savings per sales tax/bond fund dollars spent, which will provide the District greater flexibility to launch additional projects over the long term.

The momentum created by the powerful combination of a well prepared plan, a consistent source of funding from the local community sales tax base, and grant proceeds from the Department of Energy, positions Champaign Schools to be a model for school districts all across Illinois whom have the power to pass the same sales tax referendum for their facilities. Only five districts in the State of Illinois to date have passed this sales tax referendum which became law in xxxxx 2008, The success of the Champaign Schools energy efficiency retrofit program will serve as a beacon for other district administrators to utilize Champaign Schools as a real time example of how the results of success can transform a school district.

*Description of how many and what kinds of buildings will be targeted and their geographic location*

The Robeson Elementary School, located in Champaign, Illinois, was originally constructed in 1967, an addition was added in 1968. The school is a single story building that covers 46,396 square feet. The construction is block and brick. The school educates approximately 516 students between kindergarten and 5<sup>th</sup> grade. The elementary school is primarily used only during the regular school year and normal occupancy is between the hours of 7 am through 6 pm.

Heating for the building is provided by a boiler plant consisting of a single (1) steam boiler. The boiler is over 40 years old. The boiler provides steam for comfort heating. Steam is distributed via a piping system to serve unit vents, cabinet heaters and fin tube radiation.

Heating and ventilation at the school is provided by unit ventilators. The unit ventilators are over 40 years old. Some exhaust fans are utilized at the school for ventilation. Minimal cooling is available at the school through window air conditioning units.

The building control technology in the school is primarily pneumatic. The front end BAS is by Invensys (TAC) and is direct digital control (DDC) while the local controls are pneumatic. The DDC system controls the boiler and is used to monitor zones in the building. This system is modular and can be expanded in the future by adding unit controllers, network controllers, sensors, peripheral devices, etc. The terminal units (fan coil units, unit ventilators, etc.) located in class rooms and similar areas are controlled with pneumatic controls. While these controls perform adequately, they but do not provide the precise/accurate control offered by direct digital controls. In addition, these controls become a high maintenance item as they age (moisture and oil in the pneumatic lines often prove to be the demise of pneumatic controls). These controls are also becoming obsolete, as more and more new facilities and renovations of existing facilities opt for electronic or direct digital controls.

The Bottenfield Elementary School, located in Champaign, Illinois, was originally constructed in 1955. The school is a single story building that covers 29,972 square feet. The construction is block and brick. The school educates approximately 419 students between kindergarten and 5<sup>th</sup> grade. The elementary school is primarily used only during the regular school year and normal occupancy is between the hours of 7 am through 6 pm.

Heating for the building is provided by a boiler plant consisting of a single (1) steam boiler. The boiler is over 50 years old. The boiler provides steam for comfort heating. Steam is distributed via a piping system to serve unit vents, cabinet heaters and fin tube radiation.

Heating and ventilation at the school is provided by unit ventilators. The unit ventilators are original to the building construction (over 50 years old). Some exhaust fans are utilized at the school for ventilation. Minimal cooling is available at the school through window air conditioning units.

The building control technology in the school is primarily pneumatic. The front end BAS is by Invensys (TAC) and is direct digital control (DDC) while the local controls are pneumatic. The DDC system controls the boiler and is used to monitor zones in the building. This system is modular and can be expanded in the future by adding unit controllers, network controllers, sensors, peripheral devices, etc. The terminal units (fan coil units, unit ventilators, etc.) located in class rooms and similar areas are controlled with pneumatic controls. While these controls perform adequately, they but do not provide the precise/accurate control offered by direct digital controls. In addition, these controls become a high maintenance item as they age (moisture and oil in the pneumatic lines often prove to be the demise of pneumatic controls). These controls are also becoming obsolete, as more and more new facilities and renovations of existing facilities opt for electronic or direct digital controls.

The Westview Elementary School, located in Champaign, Illinois, was originally constructed in 1950, an addition was added in 1955. The school is a two story building that covers 36,267 square feet. The construction is block and brick. The school educates approximately 407 students between kindergarten and 5<sup>th</sup> grade. The elementary school is primarily used only during the regular school year and normal occupancy is between the hours of 7 am through 6 pm.

Heating for the building is provided by a boiler plant consisting of a single (1) steam boiler. The boiler is over 50 years old. The boiler provides steam for comfort heating. Steam is distributed via a piping system to serve unit vents, cabinet heaters and fin tube radiation.

Heating and ventilation at the school is provided by unit ventilators. The unit ventilators are over 50 years old. Some exhaust fans are utilized at the school for ventilation. Minimal cooling is available at the school through window air conditioning units.

The building control technology in the school is primarily pneumatic. The front end BAS is by Invensys (TAC) and is direct digital control (DDC) while the local controls are pneumatic. The DDC system controls the boiler and is used to monitor zones in the building. This system is modular and can be expanded in the future by adding unit controllers, network controllers, sensors, peripheral devices, etc. The terminal units (fan coil units, unit ventilators, etc.) located in class rooms and similar areas are controlled with pneumatic controls. While these controls perform adequately, they but do not provide the precise/accurate control offered by direct digital controls. In addition, these controls become a high maintenance item as they age (moisture and oil in the pneumatic lines often prove to be the demise of pneumatic controls). These controls are also becoming obsolete, as more and more new facilities and renovations of existing facilities opt for electronic or direct digital controls.

Kenwood is an Elementary School located in one of

### Proposed Solution

An analysis of these Elementary Schools has shown them to be excellent candidates for a geothermal conversion. The single floor level, slab-on-grade configuration with sufficient outdoor spaces allows for a centralize bore field located immediately adjacent the classrooms.

An additional benefit of the geothermal option at the Four Elementary Schools is the ability to provide cooling at no additional costs versus a heating only system.

The heating, ventilation and air conditioning (HVAC) system at the Elementary Schools is outdated, consisting of a gas-fired steam boiler unit ventilators and miscellaneous heating devices, which shall be replaced with a ground-source heat pump (GSHP) system. The system shall provide heating, cooling and ventilation for the building usage. A detailed design, including specification and detail will be presented to the District and to the ROE for permit before construction starts.

A centralized bore field will be drilled on the grounds adjacent to the building on school property. The bore field will provide 150 tons of capacity. The ground loops will consist of approximately (98) 300-350 ft deep wells and piping grid. Individual heat pumps can be located within each classroom to provide individual control of temperatures, heating and cooling. These units will replace the existing unit vents.

The new ground source heat pump system will consist of classroom water-source heat pumps, plus a small amount of electric baseboard heaters in auxiliary areas. The heat pumps (typically 2-1/2 to 3 ton size) shall have filters, hose kit, automatic on/off valve in the return line and a flow control valve in the return line. Each heat pump unit contains a compressor, coils and fan unit.

Electrical modifications will be required to power the heat pumps. Electrical modifications will include all required service upgrades, transformers, power quality devices and power wiring. Individual heat pumps can be located within each classroom to provide individual control of temperatures, heating and cooling. These units will simply replace the existing unit ventilators. Loads for each of the heat pumps will vary depending on design parameters.

As part of the upgrades the control system will be upgraded. The Elementary Schools shall be equipped with network level controllers to take advantage of the District's Ethernet network. These controllers would give District personnel the capability to schedule and monitor all equipment currently controlled by the existing DDC system from a single point via an internet site. The scope of work shall include the following.

- Connect Existing Building Management System (BMS) to District WAN:
- Provide network controllers and connect to existing BMS controllers.
- Provide Enterprise Server software and desktop PC.
- Provide Ethernet cabling to nearest switch in building.
- Provide graphics, alarms, trending and scheduling for existing BMS controllers.
- Provide operator training

Digital Controls for the Ground Source Heat Pump Upgrade:

- New room sensors with temperature, set point, set point adjustment with occupancy override options.
- DDC interface controls for ground source heat pumps.
- Interface with lighting circuit for occupied/unoccupied control of room heat pump.
- Integration and graphics for each room, floor plan.

- Wiring in concealed spaces to be plenum cable properly secured.
- Wiremold to be utilized for sensor drops.

**With the assistance of the DOE Energy Efficiency Program grant, Champaign Schools will be able to create and/or retain 158 jobs.**

This energy conservation project will save Unit 4 \$76,088 utility costs annually, while improving the facility's infrastructure and reduce greenhouse gas emission by 460 metric tons. In addition, we want our students to grow up to be good citizens; we feel it is important to teach our children about their responsibilities to the environment as well. With ever increasing energy costs and diminishing fuel supplies, we feel it is our duty as educators to teach our students that energy-related choices today will directly impact their future. Unit 4 intends to implement class participation by the students establishing "Green Teams" at the Elementary Schools with interactive games and activities related to the projects described in this proposal. This type of hands on learning will have a lasting impact on teaching our kids the value of protecting our environment and utilizing energy more efficiently.

*Importance of project in terms of the utility of the outcomes and target community of beneficiaries*

The availability of \$3.2-52 million in DOE Energy efficiency grant funds as a sub award under the Champaign County program in this proposal will have a transformational effect on the County school's facilities. It will create or retain over 300 jobs and reduce greenhouse emissions by over 900 metric tons. The successful ramp up of the Champaign schools energy efficiency program leveraging the proposed sub award of \$1.6 million in DOE energy efficiency grant funds, we believe will provide a powerful inducement for all of the school districts within Champaign County, 14 in all, to undertake and engage in an energy efficiency retrofit program on their school facilities. This type of public school retrofit activity funded by leveraging \$3.2-52 million of DOE grant funds with approximately \$17.62-\$15 million in allocated sales tax revenue investment by the Champaign County School Districts will have a game changing impact on the reduction of greenhouse emissions by the schools of Champaign County. It will have a substantial impact on the community as a whole creating jobs, educating children on the value of our environment and reducing the energy costs for the School Districts operational budgets freeing up resources for educational purposes.

## **Criterion 2 : Project Approach**

The Champaign County Regional Planning Commission professional staff will administer the grant on a macro level within Champaign County implementing a grant disbursement process for the school districts within the County. Working with the Regional Office of Education the RPC will identify school districts that are implementing energy efficiency projects utilizing the County Sales Tax for school facilities. RPC has already identified the two other larger school districts, Urbana and Rantoul as likely sub grant recipients under the program.

Champaign School District will serve as the model for other districts in the County implementing the Elementary School retrofits leveraging the Energy Grant proceeds with the County Sales Tax for School Facilities. Other Districts within the County that develop energy efficiency projects incorporating energy service companies, sales tax proceeds, and significant impact on the reduction of greenhouse emissions will be eligible for sub grants.

The Champaign School District Energy efficiency retrofit program is overseen by senior officers of the district administration in partnership with senior executives of Energy Systems Group. They have a collaborative approach born out by their existing energy policy and commitment of funding towards those goals.

The District and ESG will consider these objectives as it implements its Energy Efficiency retrofit program.

- Making informed choices about energy use, facility upgrades, and maintenance results in financial stability.
- A significant portion of the facilities operating budget is dedicated to energy costs. Minimizing this cost is imperative to maximize the resources available for education.
- Any expansion or construction efforts should incorporate design features that enhance energy efficiency and do not increase overall energy consumption.
- Any construction projects should maximize energy efficiency and environmentally friendly features, such as:
  - Energy-efficient HVAC systems and geothermal systems, when feasible
  - Energy efficient lighting systems and day lighting, when possible
  - Non-toxic and durable building materials
  - Building envelope and systems that perform beyond code
  - Recycling
  - Energy efficient appliances

## Project Tasks and Schedule

### Champaign County Regional Planning Commission

Date	Activity	Estimated project Cost	projected sub Grant award
March 2010	Receive <del>\$3,552,000</del> Grant award from DOE		
	Sub Award to Champaign School District -	\$8,742,350 -	\$1,600,000
	Distribute Sub award guidelines to remaining 13 school districts in County		
May 2010	Allocate sub awards to Urbana and Rantoul School Districts -	\$5,000,000 -	\$1,000,000
August 2010	Allocate sub awards to remaining school districts in County -	\$2,500,000 -	\$600,000

August 2011 Complete Construction on all projects that receive sub grant awards.

**Champaign School District - \$1,600,000 sub grant award**

Project Name/Description	Total Project Cost	Ready to start construction / let contracts by:
Westview Elementary School: lighting retrofit, windows, , boiler replacement, geothermal HVAC	\$2,346,000	First Half2010
Bottenfield Elementary School: lighting retrofit, windows, boiler replacement, geothermal HVAC	\$1,945,000	First Half2010
Kenwood Elementary School: lighting retrofit, windows, , boiler replacement, geothermal HVAC	\$1,879,000	First half2010
Robeson Elementary School: lighting retrofit, windows, boiler replacement, geothermal HVAC	\$2,572,150	First Half2010

**Program Monitoring and Verification**

The RPC has a unique resource available to monitor the results of the projects. The energy service companies and facilities staff of the school districts will be required to maintain monitoring of the activities funded by grant proceeds.

The RPC may also utilize the services of The Smart Energy Design Assistance Center (SEDAC) to provide an independent assessment of results if deemed necessary. SEDAC provides advice and analyses enabling private and public facilities in the State of Illinois to increase their economic viability through the efficient use of energy resources. SEDAC is sponsored by the Illinois Department of Commerce and Economic Opportunity in partnership with ComEd and Ameren Illinois Utilities and provides valuable services at no cost to for-profit businesses and public facilities. SEDAC is managed by the School of Architecture at the University of Illinois at Urbana-Champaign and the 360 Energy Group.

**Criterion 3 : Partnership Structure and Capabilities**

Champaign School District 4 has partnered with Energy Systems Group to implement this project. This energy conservation project includes replacing existing mechanical heating, cooling and ventilation system with close loop ground source geothermal heat pump system.

Energy Systems Group (ESG) is a NAESCO-accredited, \$150+million per year energy services company (ESCO) specializing in turnkey construction projects with a focus on optimizing energy and operational efficiencies. ESG has developed and installed more than 275 energy projects valued at over \$900 million since our 1994 start-up to more than 250 customers nation-wide. ESG provides a wide range of services for customers including facility assessments and audits, engineering, design, equipment selection, subcontractor selection, project management, billing, contract administration, training and guaranteed energy savings. Energy performance contracting is ESG’s core and only business ensuring product and vendor independence and neutrality for each and every customer project.

The Chicago Office of ESG in a Licensed Professional Design Firm with five professional engineers on staff. ESG is prepared to assist Champaign CUSD #4 in indentifying ways to curb energy demand at its facilities. This team of professional engineers and experienced project managers installed the geothermal system at Garden Hills Elementary School.

It is this type of partnership that gives Unit 4 a strong grant utilization profile for the Department of Energy because the Elementary School projects outlined have been audited by a reputable energy service company

Champaign County RPC will strongly favor partnerships with energy service companies for sub grant awards to the other school districts in the County utilizing Champaign Schools as a model for successful ESCO partnerships. Both Rantoul and Urbana school districts are in the competitive process for selecting an energy service company and the RPC expects others within the District to follow. The availability of \$1.6 million in DOE Energy efficiency grant funds as a sub award under the Champaign County program in this proposal, combined with the successful ramp up of the Champaign schools program utilizing the proposed \$1.6 million in DOE energy efficiency grant funds, we believe will provide a powerful inducement for all of the school district within Champaign County, 14 in all, to undertake and engage in an energy efficiency retrofit program. This type of retrofit activity funded by leveraging \$3.2 million of DOE grant funds with approximately ~~\$17.62~~-\$15 million in allocated sales tax revenue project investment by the Champaign County School Districts will have an game changing impact on the reduction of greenhouse emissions by the schools of Champaign County. It will have a substantial impact on the community as a whole creating jobs, educating children on the value of our environment and reducing the energy costs for the School Districts operational budgets freeing up money for educational purposes.

## Roles of Participants

---

Champaign County – Grant Recipient ~~Deborah Busey~~ Pius Weibel – County Administrator ~~Board Chair~~

Champaign County Regional Planning Commission – Grant Administrator Cameron Moore – Chief Executive Officer

Champaign School District Unit 4 – Sub Grant Recipient

Arthur Culver Superintendent

Gene Logas – Chief Financial Officer Energy Services Group – Project Energy Service Company

### Criterion 3

The projects described in this proposal will commence in March 2010 and continue through August 2011. It will create or retain over 300 jobs and reduce greenhouse emissions by over 900 metric tons

The rural school districts within Champaign County will have an increased impact because the grant funds will leverage their sales tax funds significantly. For example the Ludlow School District is projected to receive \$65,000 annually in sales tax revenues, a sub award of \$65,000 would double the amount of work performed on their sole elementary school.