

ENROLLED ORDINANCE 166-6

AMEND WAUKESHA COUNTY CAPITAL PROJECT 200918 ENERGY EFFICIENCY
AND CONSERVATION BLOCK GRANT IMPLEMENTATION FOR
ADDITIONAL PROJECT REVENUES AND EXPENDITURES

WHEREAS, the Federal American Recovery and Reinvestment Act of 2009, Public Law 111-5, appropriates funding for the Department of Energy (DOE) to issue formula-based grants to states, U.S. territories, units of local government, and Indian tribes under the Energy Efficiency and Conservation Block Grant (EECBG) Program, and

WHEREAS, the Energy Efficiency and Conservation Block Grant Program provides grants to U.S. local governments, states, territories, and Indian tribes, to fund projects that reduce energy use, fossil fuel emissions, and improve energy efficiency, and

WHEREAS, Waukesha County was identified as an entitlement community under the EECBG and received an allocation of \$2,217,900, and

WHEREAS, other planned projects under the EECBG have allowed the County to be eligible for various rebates in the amount of \$120,000 from We Energies and Wisconsin Focus on Energy.

THE COUNTY BOARD OF SUPERVISORS OF THE COUNTY OF WAUKESHA ORDAINS that Capital Project 200918, Energy Efficiency and Conservation Block Grant Implementation, be modified to increase revenue and expenditures by \$120,000 from the energy efficiency rebates received from other planned EECBG projects.

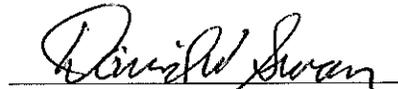
AMEND WAUKESHA COUNTY CAPITAL PROJECT 200918 ENERGY EFFICIENCY
AND CONSERVATION BLOCK GRANT IMPLEMENTATION FOR
ADDITIONAL PROJECT REVENUES AND EXPENDITURES

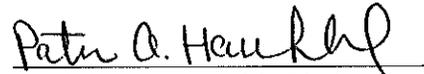
Presented by:
Executive Committee

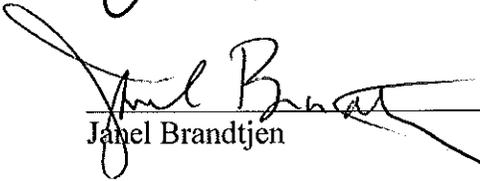
Approved by:
Public Works Committee

Approved by:
Finance Committee

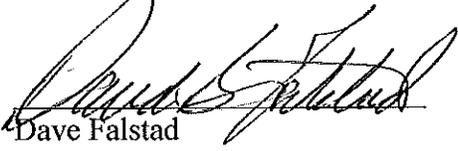

James T. Dwyer, Chair

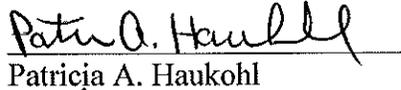

David W. Swan, Chair


Patricia A. Haukohl, Chair


Janel Brandtjen

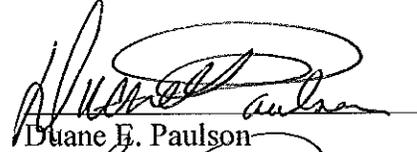

Kathy A. Chiaverotti


Dave Falstad

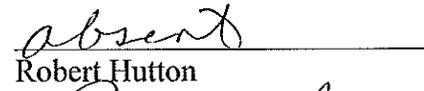

Patricia A. Haukohl

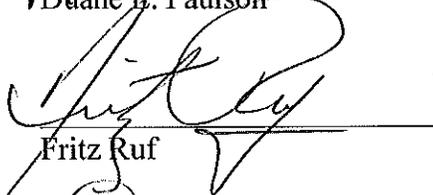

Peter Gundrum


James A. Heinrich

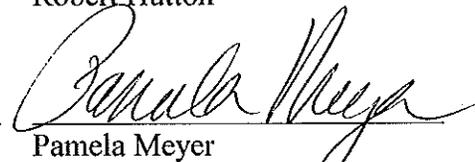

Duane E. Paulson

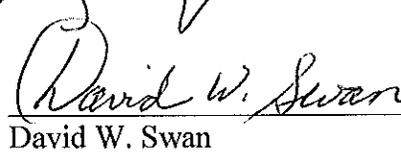

Pauline T. Jaske


Robert Hutton


Fritz Ruf


Walter L. Kolb

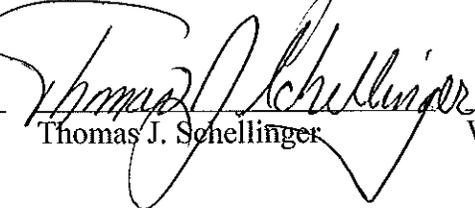

Pamela Meyer

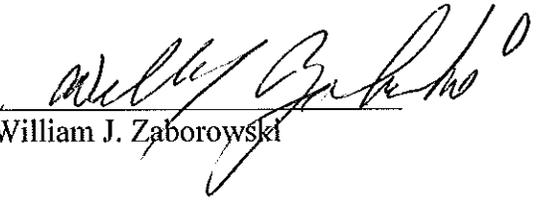

David W. Swan


Pamela Meyer


Ted Rolfs


Jean Tortomasi


Thomas J. Schellinger

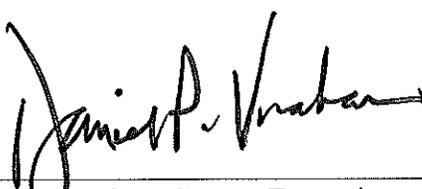

William J. Zaborowski

The foregoing legislation adopted by the County Board of Supervisors of Waukesha County, Wisconsin, was presented to the County Executive on:

Date: 4-29-2011, 
Kathy Nickolaus, County Clerk

The foregoing legislation adopted by the County Board of Supervisors of Waukesha County, Wisconsin, is hereby:

Approved: X
Vetoed: _____

Date: 4-29-11, 
Daniel R. Vrakas, County Executive

Project #	200918	Project Title:	Energy Efficiency and Conservation Block Grant Implementation
Department:	Parks and Land Use / Public Works	Sponsor:	Mark Keckeisen Duane Grimm
Phase:	Construction	Manager:	Dale Shaver, Parks and Land Use Director Allison Bussler, Public Works Director
Date:	April 6, 2011		

REVISED BY ORDINANCE

CAPITAL BUDGET SUMMARY				
Year	2009	2010	2011	Total
Project Phase	In House Design	Construction	Construction	Project
Expenditure Budget	\$0	\$1,931,900	\$280,000	\$2,211,900
Revenue Budget	\$0	\$1,931,900	\$280,000	\$2,211,900
Net County Cost	\$0	\$0	\$0	\$0
COST DOCUMENTATION		REVENUE		
Design	\$0	Energy Efficiency & Conservation		
Construction	\$2,211,900	Block Grant (EECBG)		\$2,091,900
Contingency	\$0	Energy Rebates		\$120,000
Total Project Cost	\$2,211,900	Total Revenue		\$2,211,900
EXPENDITURE BUDGET	\$2,211,900	REVENUE BUDGET		\$2,211,900

Project Scope & Description

The American Recovery and Reinvestment Act of 2009, Public Law 111-5, appropriates funding for the Department of Energy (DOE) to issue/award formula-based grants to states, U.S. territories, units of local government, and Indian tribes under the Energy Efficiency and Conservation Block Grant (EECBG) Program. Funding was provided to cities with populations of at least 35,000 or that are one of the top ten highest populated cities and counties with a population of over 200,000 or counties of any size population that are one of the ten highest-populated cities or counties of the State in which they are located.

The Departments of Parks and Land Use, Public Works and Administration cooperatively submitted a series of projects under the EECBG to assist in implementing the Waukesha County Sustainability Plan completed in March 2008 and consistent with the Waukesha County Sustainability Policy adopted through Resolution 163-R-006 by the County Board on December 16, 2008. Energy Rebate revenue received for completed projects will be appropriated to the project to expand amount of lighting work that can be accomplished.

Projects under this capital project include replacing interior and exterior lighting fixtures at designated facilities; incorporating a geo-exchange heat pump system to offset conventional heating and air conditioning at the Retzer Nature Center and Planetarium; installation of a dehumidification system that utilizes "waste" heat from the chiller refrigeration system to dehumidify the Nagawaukee Ice Arena in lieu of a natural gas desiccant dehumidifier; upgrade/replace HVAC equipment and controls, and replacement of desiccant system, potential use of waste heat for interior heat or dehumidification at the Eble Ice Arena; replace County Highway's luminaries to LED's associated with signalized intersections; Installation of a Solar Thermal System for hot water supply for the Waukesha County Jail and Law Enforcement Center and installing spread spectrum radio technology to interconnect traffic signals to reduce vehicle delay, thereby reducing emissions and fuel use.

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Department:	Parks and Land Use / Public Works	Sponsor:	Mark Keckelsen Duane Grimm
Phase:	Construction	Manager:	Dale Shaver, Parks and Land Use Director Allison Bussler, Interim Public Works Director
Date:	April 6, 2011		

Location

Administration Center; Courthouse; Highway Operations Center; Communications Center; Juvenile Center; Law Enforcement Center; Public Health Building; Retzer Nature Center; Eble and Nagawaukee Ice Arenas.

Analysis of Need

With improvements in lighting and mechanical equipment technology and the increasing cost of energy and water, it is in Waukesha County's best interest to continually evaluate opportunities to conserve and reduce utility cost and water usage as well as implement those projects that have reasonable return on investment.

The projects submitted under the EECBG and therefore included in this capital project were chosen because of the short return on investment (8-9 years and under); use alternative energy systems (waste heat capture and geo-thermal); and demonstrate a broad implementation of the Waukesha County Sustainability Plan (traffic signal interconnection).

Project	Design / Construction Year	Estimated Cost	Estimated ROI * Years
Ice Arena Heat Recovery and HVAC	2010	\$ 790,000	8-10 years
County Jail Solar Thermal system	2010/ 2011	\$ 275,000	8 years
Lighting- Internal, Exterior Street Lighting	2010/ 2011	\$ 881,900	2-4 years
Retzer Renewable Energy (geo-thermal) Project	2009 / 2010	\$ 225,000	6-10 years
Traffic Signal Interconnection	2010 / 2010	\$ 40,000	N/A

*Based on manufacturer's anticipated return on investment, potential rebates and maintenance savings and incremental cost of replacing some equipment

Alternatives

Do not accept the EECBG funding or take advantage of opportunities to reduce utility cost and water usage.

Ongoing Operating Costs

Initiation of these projects should result in a reduction in energy consumption of 20% for interior lighting and up to 65% for exterior lighting, geothermal and waste heat collection. The Departments of Parks and Land Use and Public Works will reduce utilities budgets in 2011 based on actual utility rates and reduced consumption.

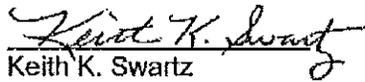
Previous Action

New project in 2010-2014 Plan

FISCAL NOTE

AMEND WAUKESHA COUNTY CAPITAL PROJECT 200918 ENERGY EFFICIENCY AND CONSERVATION BLOCK GRANT IMPLEMENTATION FOR ADDITIONAL PROJECT REVENUES AND EXPENDITURES

The ordinance modifies the 2011 Capital Project 200918 Energy Efficiency and Conservation Block Grant Implementation to increase expenditures and revenues by \$120,000 to \$2,211,900 to include additional lighting changes. The ordinance appropriates energy rebate revenue earned to date resulting in no direct tax levy impact. Additional lighting will also result from doing a solar thermal system only at the Waukesha County Jail. According to the Facilities Manager, the solar thermal system had been planned for both the County Jail and Law Enforcement Center, however the bids received did not result in a reasonable payback for the Law Enforcement Center.



Keith K. Swartz
Budget Manager
4/6/11
LGW

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Referred on: 04/07/11

File Number: 166-O-006

Referred to: EX - PW - FI

WAUKESHA COUNTY BOARD OF SUPERVISORS

V

DATE-04/26/11

(ORD) NUMBER-1660006

1 D. FALSTAD.....AYE
 3 R. HUTTON.....
 5 J. JESKEWITZ.....AYE
 7 P. HAUKOHL.....AYE
 9 J. HEINRICH.....AYE
 11 F. RUF.....AYE
 13 P. DECKER.....AYE
 15 P. MEYERS.....AYE
 17 J. TORTOMASI.....AYE
 19 S. WIMMER.....
 21 W. ZABOROWSKI.....AYE
 23 K. ^{Vacant}~~CHIAVEROTTI~~....
 25 G. YERKE.....AYE

2 T. ROLFS.....
 4 J. DWYER.....AYE
 6 J. BRANDTJEN.....AYE
 8 T. SCHELLINGER....AYE
 10 D. SWAN.....AYE
 12 P. WOLFF.....AYE
 14 M. INDA.....AYE
 16 D. PAULSON.....AYE
 18 K. CUMMINGS.....AYE
 20 P. JASKE.....AYE
 22 P. GUNDRUM.....AYE
 24 W. KOLB.....AYE

TOTAL AYES-21

TOTAL NAYS-00

CARRIED.....

DEFEATED.....

UNANIMOUS

X

TOTAL VOTES-21