



To: Clay Pearson, City Manager
From: Marina Neumaier, Assistant Finance Director
Date: June 7, 2010
Subject: Energy Efficiency and Conservation Block Grant Update

6/7/10
To: Mayor - City Council/Make
Marina, our staff Green Venture Team, and AKT Peerless are doing a great job getting after putting these dollars to good use.

The Department of Energy (DOE) approved Novi's Energy Efficiency and Conservation Strategy (EECS) on March 13, 2010. Specifically, EECBG Funds will be used to support the following major components of the EECS:

- **Energy Efficiency Retrofits** - install energy conservation measures to reduce energy consumption in six municipal facilities by 12.5% and reduce greenhouse gas emissions by 15%. Approximately 220,365 square feet of municipal building space will be retrofitted (71% of 312,000 total square feet of municipal building space) reducing annual operating costs by an estimated \$97,153.
- **Development and Implementation of Transportation Programs** - update and expand Novi's non-motorized plan to identify strategic opportunities to reduce vehicle miles traveled throughout Novi. Since its adoption in December of 2006, the City of Novi's Pathway and Sidewalk Prioritization Analysis and Process (PSPAP or Non-motorized Plan) has been used as a tool to help develop the City's sidewalk and pathway construction schedules. The City intends to update and expand the plan. It will serve as the basis for the future development of non-motorized infrastructure improvements within Novi.

EECS Implementation Progress to-date: Novi has awarded \$88,520 or 17% of our total \$533,100 grant to our energy consultant, AKT Peerless. AKT has completed/reviewed designs and subsequent separate invitations to bid for the following four EECS projects which will all be ready for award in July 2010:

- Non-motorized pathway/sidewalk master plan.
- Ice Arena retrofits which include rebuild of two existing refrigeration compressors, installation of hot water systems off compressor waste heat, installation of a chiller sized and dedicated to AC for the building, remove and replace heat exchanger pipe in ice melting pit and furnish and install an Ice Plant automated management system.
- Civic Center HVAC re-design audit - this in-depth engineering analysis will identify specific retrofit needs within the Civic Center.
- DPS rooftop furnace and makeup air unit replacement and retro-commissioning of the existing exhaust dampers.

AKT is currently working on securing an internal lighting design for both the Civic Center and DPS facility. This strategy will result in Novi getting the best possible lighting retrofit in terms of energy reduction and user comfort (lighting levels). Once the lighting design is complete, we will send the retrofit bid package out for bid including the Civic Center, DPS, Fire Station #1/#4 and Meadowbrook Commons. Our goal will be to take the lighting retrofits to City Council for award by August 2010.

- In total, reflecting all of the above projects, Novi will have obligated approximately 72% of our total grant award. We feel our progress has been very aggressive given

the fact that the grant originally allowed us until March 6, 2011 to have all funds obligated and under contract. The balance of the remaining grant award will be obligated upon completion of work to be indentified in the Civic Center HVAC audit.

A summary of the final approved grant award (cost of implementation assistance and on-going reporting included within the respective project allocations) is as follows:

Activity/ECM	Final DOE Award Amount	Summary
Energy Efficiency Retrofits	\$430,155	In addition to the respective energy retrofits to be completed within various City facilities, also includes \$27,700 for the Civic Center duct work audit as well as \$12,530 for on-going reporting and \$28,045 for implementation assistance.
Energy Efficiency and Conservation Program	\$ 5,000	Install a Civic Center dashboard display at the Civic Center for public outreach. The dashboard will display the Civic Center energy model on a continuous loop, energy savings and energy program updates.
Non-Motorized Pathway/Sidewalk Master Plan	\$50,000	To identify through a Master Plan approach a program to link current and future pathways, sidewalks and trails within the City.
EECS Development	\$47,945	\$60,475 was awarded to AKT Peerless on September 28, 2009 of which \$47,945 was awarded to develop EECS and \$12,530 for on-going reporting.
Total	\$533,100	

In order to meet the spending requirements of the grant, the above projects **must** be obligated or committed no later than March 6, 2011 and all funds must be expended no later than September 6, 2012.