


<div style="text-align: center;"> A U S T I N C I T Y C O U N C I L  <b>AGENDA</b> </div> <div>  </div>				
<b>Recommendation for Council Action (CLMD)</b>				
Austin City Council		Item ID:	62985	Agenda Number
Meeting Date:	October 6, 2016			
Department:	Capital Contracting Office			
Subject				
<p>Authorize award and execution of a construction contract with FLINTCO, LLC, for Austin Energy's Domain District Cooling Plant Cooling Tower Improvements Project, in the amount of \$11,360,000 plus a \$1,136,000 contingency, for a total contract amount not to exceed \$12,496,000. (District 7)</p>				
Amount and Source of Funding				
<p>Funding in the amount of \$12,496,000 is available in the Fiscal Year 2016-2017 Capital Budget of Austin Energy.</p>				
Fiscal Note				
<p>A fiscal note is attached.</p>				
Purchasing Language:	Lowest responsive bid of three bids received through a competitive Invitation for Bid solicitation.			
Prior Council Action:	November 6, 2014 – Council approved Professional Services Agreement with Jacobs Engineering Group, Inc. to provide engineering services for this project.			
For More Information:	Rolando Fernandez, 512-974-7749; Sarah Torchin, 512-974-7141; Jim Collins, 512-322-6426; John Routh, 512-505-7820.			
Boards and Commission Action:	To be reviewed by the Electric Utility Commission on September 19, 2016.			
Related Items:				
MBE / WBE:	This contract will be awarded in compliance with City Code Chapter 2-9A (Minority Owned and Women Owned Business Enterprise Procurement Program) through the achievements of Good Faith Efforts with 6.17% MBE and 0.00% WBE participation.			
Additional Backup Information				
<p>The Domain District Cooling Plant is located at 3120 Kramer Lane, on the east side of the Domain development in an area populated with businesses, retail, and housing. It was built in the 1980s as an integral part of the IBM campus. The City of Austin acquired the plant in 2001. The objective of this project is the decommissioning of the existing 10 cooling tower cells and associated infrastructure and appurtenances, with a total capacity of 19,700 tons, with five new, more reliable and efficient cells for a total capacity of 15,000 tons. Endeavor, the property management firm of the Domain development, is in support of the project. The existing 30-year old cooling towers are at the end of their useful life and are experiencing failures which impact safety and reliability. This project is critical in providing reliable service to chilled water customers at the Domain. A delay in award could result in a loss of service to surrounding Austin Energy customers.</p>				

Due to the potential for the contractor to encounter underground utilities associated with the historical IBM facilities and potential schedule adjustments requested by Endeavor, a 10% contingency in funding has been included to allow for the expeditious processing of any change orders. This contingency is an additional amount of money added to the construction budget to cover any unforeseen construction costs associated with the project.

Austin Energy operates four district cooling plants, two in Downtown Austin, one at the Domain, and one at Mueller. These plants deliver chilled water through a system of underground pipes to 60 customers. The chilled water is used to cool and dehumidify customers' buildings, mainly large hotels, office buildings, condominiums, apartments, and in the case of Mueller, the Dell Children's Medical Center of Central Texas. These plants operate 24 hours a day, seven days a week. A valuable feature of these district cooling plants includes thermal storage which allows Austin Energy to produce chilled water and ice during off electric peak hours at night, and then discharge it during peak hours when it is needed most, which benefits all customers.

The contract allows 545 Calendar days for completion of this project. This project is located within zip code 78758 (District 7). The project will be managed by Austin Energy.

FLINTCO, LLC is located in Austin, Texas.

Information on this solicitation is available through the City's Financial Services Austin Finance Online website. Link: [Solicitation Documents](#).

# AUSTIN ENERGY'S DOMAIN DISTRICT COOLING PLANT COOLING TOWERS IMPROVEMENTS PROJECT





## **M/WBE Summary – Construction Contract w/contingency**

Public notice was given for this solicitation, RFQS 6100 CLMP607 Domain District Cooling Plant and Cooling Tower Improvements, through the City's Vendor Connection web portal which resulted in 341 entities receiving notification. Eighty-three (83) entities obtained the bid documents and THREE bids were received and opened on July 28, 2016. None of the bids received were from MBE/WBE certified firms. FLINTCO, LLC submitted the lowest responsive bid of 3 bids received:

FLINTCO, LLC, Austin, Texas	\$11,360,000
R.E.C. INDUSTRIES, INC., Bryan, Texas	\$12,089,000
BILFINGER WESTCON, INC., Deer Park, Texas	\$12,999,995

The contractor's choice of work methodology provides for 12 areas of subcontracting opportunities which are listed below. Project specific sub-goals stated in the solicitation were 1.26% African American; 2.05% Hispanic; 1.00% Native/Asian, 2.21% WBE. Total participation estimated on base bid amount of \$11,360,000.00:

<b>NON M/WBE – PRIME</b>	<b>\$2,665,362</b>	<b>23.46%</b>
FLINTCO, LLC, Austin, Texas	\$2,665,362	23.46%
<b>MBE TOTAL – SUBCONTRACTORS</b>	<b>\$701,026</b>	<b>6.17%</b>
<u>African American Subtotal</u>	<u>\$0.00</u>	<u>0.00%</u>
	\$0.00	0.00%
<u>Hispanic Subtotal</u>	<u>\$701,026</u>	<u>6.17%</u>
(MH) JS Electric Buda, Texas (Electrical)	\$701,026	6.17%
<u>Native/Asian Subtotal</u>	<u>\$0.00</u>	<u>0.00%</u>
	\$0.00	0.00%
<b>WBE TOTAL – SUBCONTRACTORS</b>	<b>\$0.00</b>	<b>0.00%</b>
	\$0.00	0.00%
<b>NON M/WBE TOTAL – SUBCONTRACTORS</b>	<b>\$7,993,612</b>	<b>70.37%</b>
Environmental Allies, Houston, Texas (Erosion Control)	\$19,751	0.17%
Precision Demolition, Houston, Texas (Demolition)	\$83,857	0.74%
Waco Metal Building Products, Houston, Texas (Structural Steel)	\$467,045	4.11%
Chamberlin Roofing & Waterproofing, Austin, Texas (Roofing)	\$25,686	0.23%
Texas Air Products, San Antonio, Texas, (Louvers)	\$13,213	0.12%
Alpha Painting and Decorating Co., Round Rock, Texas (Paint)	\$5,353	0.05%
Kilgore, Austin, Texas (Mechanical)	\$2,698,111	23.75%
Texas Air Systems, Austin, Texas (Cooling Towers)	\$2,488,915	21.91%
Prime Controls, Sugar Land, Texas (Mechanical (Controls)	\$1,892,398	16.66%
Lehne Construction, Austin, Texas (Earthwork, Excavation, Utilities)	\$265,308	2.33%
Towns Land Services, Austin, Texas (Landscape)	\$33,975	0.30%

The Contractor submitted a MBE/WBE Compliance Plan that demonstrated a Good Faith Effort and was approved by the Small and Minority Business Resources Department. Second and third low bidder information is provided.

SECOND BIDDER - R.E.C. INDUSTRIES, INC., Bryan, Texas \$12,089,000  
47.98% NON M/WBE prime participation; 2.07% African American; 6.25% Hispanic; 0.0% Native/Asian; 5.80% WBE; 37.91% Non M/WBE subcontractor participation.

THIRD BIDDER - BILFINGER WESTCON, INC., Deer Park, Texas \$12,999,995  
44.80 NON M/WBE prime participation; 1.35% African American; 15.04% Hispanic; 1.08% Native/Asian; 2.45% WBE; 35.28% Non M/WBE subcontractor participation.



## Recommendation for Council Action (Purchasing)

Austin City Council	Item ID:	62724	Agenda Number	
Meeting Date:	October 6, 2016			
Department:	Purchasing			
Subject				
<p>Authorize award and execution of a 12-month contract with GREAT WESTERN MANAGED SERVICES CORP. (WBE), to provide grounds maintenance services, in an amount not to exceed \$125,070, with four 12-month extension options in an amount not to exceed \$125,070 per extension option, for a total contract amount not to exceed \$625,350.</p>				
Amount and Source of Funding				
<p>Funding in the amount of \$125,070 is available in the Fiscal Year 2016-2017 Operating Budget of Austin Energy. Funding for the extension options is contingent upon available funding in future budgets.</p>				
Fiscal Note				
A fiscal note is not required.				
Purchasing Language:	The Purchasing Office issued an Invitation for Bids (IFB) LAG0025 for these goods and services on May 24, 2016 which closed on June 14, 2016 with three offers received. The recommended offer is the lowest offer submitted by a responsible offeror. Additional information on the solicitation is included below the line. The recommended offeror is not the current provider for these goods and services.			
Prior Council Action:				
For More Information:	Gage Loots, Corporate Purchasing Manager, 512-322-6251			
Boards and Commission Action:	September 19, 2016 - To be reviewed by the Electric Utility Commission.			
Related Items:				
MBE / WBE:	This solicitation was reviewed for subcontracting opportunities in accordance with City Code Chapter 2-9C Minority Owned and Women Owned Business Enterprise Procurement Program. For the goods and services required for this solicitation, there were insufficient subcontracting opportunities; therefore, no subcontracting goals were established.			
Additional Backup Information				

The contract will provide grounds maintenance, mowing, landscaping, and sprinkler maintenance and repair services at various Austin Energy locations including Town Lake Center, Kramer Lane Service Center, St. Elmo Service Center, and Justin Lane Reclamation Center. The contract requirements provide a consistent standard for landscaping, ground maintenance, and irrigation services to ensure appropriate landscape and lawn care management. The Contractor will be responsible for providing and maintaining all equipment necessary for proper maintenance at each location.

The City intends to reduce emissions by requiring the use of cleaner-burning, reduced-emissions powered equipment on contracts for these types of services. The staff from the Office of Sustainability provided guidelines for emissions reduction, which were included in this project. These guidelines include use of alternative fuels rather than gasoline powered equipment, and native plants and landscape materials.

### **BID TABULATION**

IFB LAG0025

Grounds Maintenance Services at Various Austin Energy Locations





[15 line items]

<u>Vendor</u>	<u>Total Bid Amount-12 months</u>
<b>Great Western Managed Services Corp. (WBE)</b>	<b>\$125,070</b>
Maldonado Nursery and Landscaping, Inc.	\$165,590
Greater Texas Landscape Services, Inc.	*

\*Deemed Non-Responsive – Did not meet the requirements of the solicitation.

A complete solicitation package, including a bid tabulation, is on file in the City's Purchasing Office and is available on the City's Financial Services Austin Finance Online website. Link: [Solicitation Documents](#)

<b>GREAT WESTERN MANAGED SERVICES CORP. (WBE)</b>				
	<b># months</b>	<b>Contract Amount</b>	<b>Contract Amendment</b>	<b>Revised Amount</b>
Original Term	12	\$ 125,070	n/a	n/a
Extension Option 1	12	\$ 125,070	n/a	n/a
Extension Option 2	12	\$ 125,070	n/a	n/a
Extension Option 3	12	\$ 125,070	n/a	n/a
Extension Option 4	12	\$ 125,070	n/a	n/a
<b>TOTAL</b>	<b>60</b>	<b>\$ 625,350</b>	<b>\$ -</b>	<b>\$ -</b>

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<b>Recommendation for Council Action (Purchasing)</b>				
Austin City Council	Item ID:	62695	Agenda Number	
Meeting Date:	October 6, 2016			
Department:	Purchasing			
Subject				
<p>Authorize award and execution of a 12-month contract with INTEGRATED ENVIRONMENT, to provide maintenance and repair of stormwater ponds, in an amount not to exceed \$102,620, with four 12-month extension options in an amount not to exceed \$102,620 per extension option, for a total contract amount not to exceed \$513,100.</p>				
Amount and Source of Funding				
<p>Funding in the amount of \$94,068 is available in the Fiscal Year 2016-2017 Operating Budget of Austin Energy. Funding for the remaining one month of the original contract period and extension options is contingent upon available funding in future budgets.</p>				
Fiscal Note				
A fiscal note is not required.				
Purchasing Language:	The Purchasing Office issued an Invitation for Bids (IFB) APC0009REBID for these goods and services on June 20, 2016 which closed on July 5, 2016 with two of offers received. The recommended offer is the lowest offer submitted by a responsible offeror. Additional information on the solicitation is included below the line. The recommended offeror is not the current provider for the services.			
Prior Council Action:				
For More Information:	Annie Atwood, Buyer I, 512-322-6472			
Boards and Commission Action:	September 19, 2016 - To be reviewed by the Electric Utility Commission.			
Related Items:				
MBE / WBE:	This solicitation was reviewed for subcontracting opportunities in accordance with City Code Chapter 2-9C Minority Owned and Women Owned Business Enterprise Procurement Program. For the goods and services required for this solicitation, there were insufficient subcontracting opportunities, therefore, no subcontracting goals were established.			
Additional Backup Information				

The contract will provide repair and maintenance services to stormwater ponds maintained by Austin Energy. Austin Energy currently maintains seven ponds located at its service centers, substations, and other facilities.

These services are required for compliance with city and state environmental design criteria and regulations.

The Contractor will furnish all mobilization costs, erosion/sedimentation controls including re-sodding, labor, permits, material, machinery, tools, supplies, equipment, and incidentals, and horticultural supervision required to maintain ponds in accordance with specified regulations. Maintenance work shall include but not be limited to: removal of debris, trimmings, trash, and litter; removal of saplings and other vegetation; removal of sediment build-up, and re-sodding areas of remediation.

### **BID TABULATION**

IFB APC0009REBID

Maintenance and Repair of Sedimentation /Filtration Ponds  
15 line items

Vendor

Total Annual Bid

**Integrated Environment**

**\$102,620**

Gruene Environmental Co


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\* Deemed Non-Responsive – Did not meet the requirements of the solicitation.

A complete solicitation package, including a bid tabulation, is on file in the City's Purchasing Office and is available on the City's Financial Services Austin Finance Online website. Link: [Solicitation Documents](#)

<b>INTEGRATED ENVIRONMENT</b>				
	<b># months</b>	<b>Contract Amount</b>	<b>Contract Amendment</b>	<b>Revised Amount</b>
Original Term	12	\$ 102,620	n/a	n/a
Extension Option 1	12	\$ 102,620	n/a	n/a
Extension Option 2	12	\$ 102,620	n/a	n/a
Extension Option 3	12	\$ 102,620	n/a	n/a
Extension Option 4	12	\$ 102,620	n/a	n/a
<b>TOTAL</b>	<b>60</b>	<b>\$ 513,100</b>	<b>\$ -</b>	<b>\$ -</b>



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<b>Recommendation for Council Action (Purchasing)</b>				
Austin City Council	Item ID:	62606	Agenda Number	
Meeting Date:	October 6, 2016			
Department:	Purchasing			
Subject				
<p>Authorize negotiation and execution of an 84-month contract with TEXAS ELECTRIC COOPERATIVES, to provide electric meters for Austin Energy's residential meter replacement project, in an amount not to exceed \$29,100,000.</p>				
Amount and Source of Funding				
<p>Funding in the amount of \$4,157,143 is available in the Fiscal Year 2016-2017 Capital Budget of Austin Energy. Funding for the remaining 72 months of the original contract period is contingent upon available funding in future budgets.</p>				
Fiscal Note				
A fiscal note is attached.				
Purchasing Language:	Sole Source			
Prior Council Action:				
For More Information:	Darralyn N. Johnson, Buyer II, 512-505-7293			
Boards and Commission Action:	August 15, 2016 - To be reviewed by the Electric Utility Commission.			
Related Items:				
MBE / WBE:	This contract is exempt from the City Code Chapter 2-9C Minority Owned and Women Owned Business Enterprise Procurement Program; therefore, no subcontracting goals were established.			
Additional Backup Information				
<p>The contract is for the purchase of residential electric meters to be deployed throughout Austin Energy's service territory over a seven-year period to provide customers and the utility with increased functionality and reliability. Austin Energy plans to replace approximately 245,000 residential meters installed in its service area. The meters were installed between 2006 and 2009 to replace manually-read meters with electronically-read meters.</p> <p>At the Austin Energy Utility Oversight Committee meeting on September 19, Council members received a briefing on the Residential Meter Replacement Project. As reported, due to changes in technology since deployment, the old meters have limited capabilities that do not support more advanced functions and requirements such as superior outage notification, theft and maintenance detection, and over-the-air programming. This procurement will allow the replacement of the old meters over a seven-year period. The meters will provide advanced functionality to support customer experience and operational requirements, and streamline complex metering operations to reduce costs for</p>				

## Austin Energy.

Austin Energy utilizes Landis + Gyr's Grid Stream and Command Center as its Advanced Metering Infrastructure communication network and headend system. Only Landis + Gyr meters will interface with this proprietary system to allow Austin Energy to optimize usage of the features and functionality of the new meters, including over-the-air programming, and temperature measurement. Over-the-air programming allows the meter to be reprogrammed from the office, eliminating a truck roll and meter exchange in the field. The new meter can send an alert if its temperature exceeds the specified level indicating a wiring issue or hot socket.

These meter system features and functions support Austin Energy's strategic goals and objectives regarding system reliability and outage management, safety, and reduction of greenhouse gas emissions.

Landis+Gyr is the sole manufacturer of these proprietary products and Texas Electric Cooperatives is the exclusive authorized distributor of Landis+Gyr products for the public power market in Texas.

**CITY OF AUSTIN  
REQUEST FOR COUNCIL ACTION  
VENDOR: STEM, INC.**

**COUNCIL DATE: 10/06/2016**

**SUBJECT:** Authorize negotiation and execution of a contract with STEM, INC., to provide integrated energy storage systems and control software implementation services for Austin Energy's SHINES project, in an amount not to exceed \$750,000.

**AMOUNT AND SOURCE OF FUNDING:** Funding is available in the Fiscal Year 2016-2017 Capital Budget of Austin Energy.

**FISCAL NOTE:** A fiscal note is attached.

**PURCHASING:** Austin Energy is designating this purchase as a Critical Business Need in accordance with Senate Bill 7, as adopted by the City as Resolution No. 040610-02.

**FOR MORE INFORMATION CONTACT:** Terry V. Nicholson, Senior Buyer Supervisor, 512-322-6586

**BOARD AND COMMISSION ACTION:** September 19, 2016 – To be reviewed by the Electric Utility Commission. September 20, 2016 – To be reviewed by the Resource Management Commission.

**MBE/WBE:** This contract will be awarded in compliance with City Code Chapter 2-9C Minority Owned and Women Owned Business Enterprise Procurement Program. MBE/WBE goals will be established prior to execution of a contract.

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The contract will provide Austin Energy (AE) with integrated energy storage systems and control software implementation services in support of the "Austin SHINES" project underway at AE. The Contractor will be responsible for the development, deployment, and integration of batteries and smart inverters to be located at several commercial sites, along with aggregation control software that will communicate with AE's Distributed Energy Resource control system.

In February of 2016, the U.S. Department of Energy (DOE) awarded the City of Austin a \$4,300,000 cooperative agreement grant under the DOE Sustainable and Holistic Integration of Energy Storage and Solar PV (SHINES) program. AE's proposal for the Austin SHINES project includes the design, development, and demonstration of integrated photovoltaic (PV) and energy storage solutions that are scalable, secure, reliable and cost-effective. The integration of field assets is supported by a software management platform that optimizes the use of solar PV and energy storage. The goal of the DOE funding opportunity is to enable holistic design and widespread sustainable development of low-cost, flexible, and reliable solutions that have energy storage as one of the key components, for successful integration of increasing levels of solar PV generation. Austin SHINES is a pilot project in Austin to demonstrate the capabilities of energy storage at the utility, commercial, and residential scale with solar PV integration. AE presented an overview of the Austin SHINES project to the AE Utility Oversight Committee in March 2016.

The Austin SHINES project aims to establish a template for other utilities and regions to follow to cost-effectively maximize the penetration of distributed solar PV. In addition, the proposed solution will enable distribution utilities to mitigate potential negative impacts of high penetration levels of PV caused by the intermittency and variability of solar production, which causes stress to the grid. Specific objectives include the installation of approximately four mega-watts of distributed battery storage, approximately 30 smart inverters and other enabling technologies. All of these resources will be integrated and optimized at the utility level using an approach that allows a variety of management strategies and drives development of enabling standards as well as technology innovation.

The application process for this DOE funding opportunity required the compilation of a diverse project team to provide a holistic study and solution, and Stem, Inc. has been chosen through a competitive process to provide the commercial storage aggregator services. Due to the stringent requirements outlined in the federal grant, the development phase of this contract must be completed by the end of June 2017 to maintain funding.



## MEMORANDUM

**TO:** Gage Loots, Corporate Purchasing Manager  
**FROM:** Mark Dombroski, Interim General Manager  
**DATE:** March 25, 2016  
**SUBJECT:** Critical Business Need to Contract with Grant-Funded Project Team Members

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### Action:

As detailed below, and in accordance with City Council approved purchasing procedures, I have designated the following purchases associated with a U.S. Department of Energy (DOE) Cooperative Agreement Grant as a Critical Business Need of Austin Energy (AE). All four partners below were named in the DOE \$4.3 million grant SHINES award, thus the need for the unique deviation from the usual Purchasing process:

1. AE seeks to purchase Pecan Street Inc.'s services to design, deploy, manage, analyze and report on the performance of residential distributed energy resources (DER) (solar photovoltaics (PV), energy storage systems and smart inverters) in the Mueller development. Expected contract authorization of \$900,000.
2. AE seeks to purchase 1Energy Systems' DER management platform, services for economic analysis and reporting, and an approximately 1.5 MW energy storage system to support the high penetration of residential and commercial solar PV. Expected contract authorization of \$4,540,000.
3. AE seeks to purchase Ideal Power Inc.'s products and services to deploy smart inverters and energy storage systems for commercial applications to maximize the value of associated solar PV to commercial customers and the utility. Expected contract authorization of \$60,000.
4. AE seeks to purchase Clean Power Research's solar forecast services to enhance 1Energy's DER management platform with input about expected solar generation customized to the Austin area. Expected contract authorization of \$100,000.

Total contracts awarded as Critical Business Needs are estimated to be \$5,600,000.

AE has made arrangements to present information on the SHINES award to the AE Utility Oversight Committee in March 2016. Additionally, AE has coordinated with Purchasing to bring related RCAs to City Council, expected in May 2016.

### Background:

One of the key renewable metrics in Austin Energy's Generation Plan (approved by Austin City Council in December 2014) is deployment of distributed energy resources (DER), including specific goals for local energy storage and local solar PV. To support the *City Council goal, this project will advance AE's experience and deployment with emerging technologies* such as energy storage and smart inverters to support the increase of solar penetration within the AE service



area. AE proposes a limited deployment of battery energy storage and smart inverters and the development of a DER management software tool as further described below.

AE partnered with 1Energy Systems and Pecan Street, Inc. along with other named partners to apply for and receive a \$4.3 million cooperative agreement grant from the U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy (EERE) for its "Austin SHINES" project. The Grant awarded to Austin Energy and the Austin SHINES proposal participants, #DE-EE0007177, was announced by the DOE in January 2016. The Sustainable and Holistic Integration of Energy Storage and Solar PV (SHINES) program develops and demonstrates integrated solar PV and energy storage solutions that are scalable, secure, reliable, and cost-effective. One of the goals of SHINES is to create a credible pathway towards enabling increasing amounts of solar to be integrated reliably and cost effectively onto the electric grid. Ideal Power Inc. and Clean Power Research were also included in the grant application and identified in the award.

The application process for this DOE funding opportunity required the compilation of a project team from the onset of the project's proposal. Specifically, the Funding Opportunity Announcement (FOA) states, "The project team should include at least one utility, and is also expected to have a PV module supplier/solar installer, inverter company, energy storage supplier, and other key stakeholders as applicable, as part of their team, in designing, developing, and deploying the proposed SHINES solution." AE addressed this requirement by developing its Austin SHINES project in collaboration with several parties including those described below.

**Pecan Street Inc.** of Austin, TX is a 501(c)(3) research and development organization located at the University of Texas at Austin. Pecan Street's research focuses on accelerating innovation in energy by analyzing technology and behavior. It has a network of over 1,300 voluntary participants across the nation, the first of its kind commercialization lab, and the largest source of disaggregated customer energy data used by utilities, university researchers and industry-leading companies around the world. To accomplish the residential component of the Austin SHINES project, AE will rely on Pecan Street's expertise to design and deploy residential energy components then collect and analyze granular data to measure performance and advancement of project objectives. Pecan Street will leverage their extensive knowledge of and existing relationships with stakeholders and residents in the Mueller community to identify residential participants who will partner in project activities. As a neighborhood within AE's service territory with a high penetration of solar PV, the Mueller community is an ideal location, from an electrical perspective, to deploy energy storage and smart inverters to complement and maximize the value of existing renewable generation. Pecan Street is uniquely qualified to perform the residential component of the project, having over five years of experience implementing consumer energy research programs within the Mueller Development, an existing data collection and management platform, and pre-existing relationships within the Mueller community.

**1Energy Systems** is currently engaged with AE to provide the Kingsbery Pilot Energy Storage System (ESS) which uses the open, non-proprietary Modular Energy Storage Architecture (MESA) standard for ESS communications developed and patented by 1Energy. The MESA-ESS standard for integration of the ESS and utility IT infrastructure enables future systems to be integrated with minimal additional integration cost. AE has determined the best path forward to implement ESS's that will most fully comply with future standards is to be part of the current research and development to establish uniform standardization for this type of technology. The proposed systems under the DOE grant also rely on the MESA standards for integrating real-time control and automation of the ESS's, allowing for robust, standardized control and optimal performance. AE seeks to build upon the current relationship and advance its energy storage deployment through the DOE grant by obtaining 1Energy services to





- Develop and customize the 1Energy DER Optimizer (DERO), a control management platform intended to optimize the use of DER using open, non-proprietary standards driving toward the scalable goal of “plug-and-play” solutions;
- Perform economic modeling and analysis using the “System Levelized Cost of Electricity (LCOE) to Serve Load” metric defined by 1Energy to identify the optimal mix of devices and control schemes that result in the lowest system cost at the highest possible PV penetration; and
- Provide a second grid-scale energy storage system to advance City Council-approved goals for distributed energy storage and support the increasing penetration of solar PV in the Mueller development.

**Ideal Power Inc.** of Austin, Texas is a manufacturer of multi-port smart inverters that allow for integration of solar PV and energy storage systems for commercial customers utilizing patented “Power Packet Switching Architecture” technology. Ideal Power’s technology significantly improves the weight, size, cost, efficiency and reliability of electronic power converters for the renewable energy and electric vehicle charging markets. Ideal Power is a member of the SunSpec Standards Alliance, a trade alliance of over 70 solar and storage distributed energy industry participants, together pursuing information standards to enable “plug & play” system interoperability. The use of open standards for all assets installed as part of the Austin SHINES project will allow AE to have a highly integrated system to optimize performance. Ideal Power is also providing a corporate in-kind contribution of \$60,000 to support integration aspects of the DOE grant activities. Ideal Power is uniquely qualified to partner on this project, having a full array of commercially ready products to match the needs for commercial smart inverters able to accommodate storage and PV within one system, a local presence in Austin, the willingness to dedicate \$60,000 in matching funds to support the grant application and successfully demonstrated ability to execute on projects of a similar nature in Austin in the past.

**Clean Power Research** will advance Austin SHINES objectives by helping to optimize the value of PV and increase reliability through solar prediction services. Clean Power Research’s unique software, SolarAnywhere FleetView, will reliably integrate the distributed and utility-scale solar in this project into grid planning and operations through modeling and production forecasting. The product is scalable for use down to the feeder level, as well as across the entire AE grid. The output provides a unique combination of high accuracy satellite and numerical weather model-derived forecasting techniques with a PV simulation model that leverages the PV systems specific to AE. Energy predictions will help not only in load balancing but also in estimating the impact of increased PV penetration. Clean Power Research is uniquely qualified to partner on this project, having already worked extensively with AE to map out solar PV systems in Austin, and on a number of other initiatives, including ongoing development and updates to AE’s Value of Solar.

The unique opportunities presented with the Austin SHINES project serve as a foundation to help AE develop best practices and programs for future deployments and ultimately advance the city’s renewable energy goals to include distributed solar and storage.

**CC:** Marc A. Ott, City Manager

<div style="text-align: center;"> <div style="display: flex; justify-content: space-around; font-weight: bold; letter-spacing: 0.5em;">A U S T I N C I T Y C O U N C I L</div> <div style="background-color: #0056b3; color: white; padding: 5px; font-weight: bold; font-size: 1.2em; margin: 5px auto; width: 80%;">A G E N D A</div> <div style="display: flex; justify-content: space-around;">     </div> </div>				
Recommendation for Council Action (Purchasing)				
Austin City Council	Item ID:	62710	Agenda Number	
Meeting Date:	October 6, 2016			
Department:	Purchasing			
Subject				
<p>Authorize award and execution of a contract with TSE INTERNATIONAL, INC., for a cable puller/tensioner, in an amount not to exceed \$130,576.</p>				
Amount and Source of Funding				
<p>Funding is available in the Fiscal Year 2016-2017 Capital Budget of Austin Energy.</p>				
Fiscal Note				
<p>A fiscal note is attached.</p>				
Purchasing Language:	<p>The Purchasing Office issued an Invitation for Bids (IFB) MMO0111 for the item on June 13, 2016 which closed on July 7, 2016 with two offers received. The recommended offer is the lowest offer submitted by a responsible offeror. Additional information on the solicitation is included below the line.</p>			
Prior Council Action:				
For More Information:	Marian Moore, Buyer II, 512-974-2062			
Boards and Commission Action:	October 3, 2016 - To be reviewed by the Electric Utilities Commission.			
Related Items:				
MBE / WBE:	<p>This solicitation was reviewed for subcontracting opportunities in accordance with City Code Chapter 2-9D Minority Owned and Women Owned Business Enterprise Procurement Program. For the item required for this solicitation, there were no subcontracting opportunities and no certified M/WBEs; therefore, no subcontracting goals were established.</p>			
Additional Backup Information				

The contract is for the purchase of a trailer mounted cable puller/tensioner for the installation and removal of electrical conductors. Austin Energy regularly performs these operations to maintain and upgrade electrical infrastructure to ensure continuity of service to its customers. This cable puller/tensioner replaces equipment that has been in use since 1975.

Fleet Services and the Office of Sustainability worked together to develop a purchasing process to progress towards our Citywide objective of carbon neutrality by 2020. The purchasing standard incorporates the following criteria: pollutant and greenhouse gas emissions impact, available technologies on the market, physical demands on the equipment, service application, and life-cycle cost. These criteria are applied to all purchase requests submitted to Fleet Services.

This equipment is powered by an engine capable of operating on B20 biodiesel (20% biodiesel blended with 80% petro-diesel). The B20 biodiesel the City currently purchases is soy-based biodiesel blended with Texas Commission on Environmental Quality, Low Emissions Diesel compliant ultra-low sulfur diesel. A new technology piece of equipment operating on B20 produces at least 10% less particulate matter, at least 10% less carbon monoxide, and at least 10% less unburned hydrocarbons than one running on petro-diesel, while also reducing life-cycle greenhouse gas emission by at least 15%.

Without this equipment, electrical conductor upgrades and maintenance will be delayed and interrupt delivery of electrical service to Austin Energy customers.

**BID TABULATION**

IFB MMO0111





Cable Puller/Tensioner

1 Line Item

<b><u>Vendor</u></b>	<b><u>Total Bid</u></b>
<b>TSE International, Inc.</b>	<b>\$130,576</b>
JTE Company LLC	\$229,936

A complete solicitation package, including a bid tabulation, is on file in the City's Purchasing Office and is available on the City's Financial Services Austin Finance Online website. Link: [Solicitation Documents](#)



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<b>Recommendation for Council Action (Purchasing)</b>				
Austin City Council	Item ID:	62977	Agenda Number	<ITEM_OUTLINE>
Meeting Date:	October 6, 2016			
Department:	Purchasing			
Subject				
<p>Authorize negotiation and execution of two 24-month contracts with MEGAWATT MACHINE SERVICES, LLC and SETPOINT INTEGRATED SOLUTIONS, INC., or one of the other qualified offerors to Request For Proposals CAK0003REBID, to provide power plant valve repair, replacement, testing, and maintenance, in an amount not to exceed \$1,000,000 each and combined, with two 24-month extension options in an amount not to exceed \$750,000 per extension option each and combined, for a total contract amount not to exceed \$2,500,000 each and combined.</p>				
Amount and Source of Funding				
<p>Funding in the amount of \$500,000 is available in the Fiscal Year 2016-2017 Operating Budget of Austin Energy. Funding for the remaining 12 months of the original contract period and extension options are contingent upon available funding in future budgets.</p>				
Fiscal Note				
<p>A fiscal note is not required.</p>				
Purchasing Language:	<p>The Purchasing Office issued a Request for Proposals (RFP) CAK0003REBID for these goods and services on May 23, 2016 which closed on June 28, 2016 with five offers received. The recommended offers are the best evaluated offers submitted by responsible offerors. Additional information on the solicitation is included below the line. The recommended offerors are not the current provider for these goods and services.</p>			
Prior Council Action:				
For More Information:	Cheryl A. Kaufman, Senior Buyer, 512-505-3545			
Boards and Commission Action:	September 19, 2016 - To be reviewed by the Electric Utility Commission.			
Related Items:				
MBE / WBE:	<p>This solicitation was reviewed for subcontracting opportunities in accordance with City Code Chapter 2-9C Minority Owned and Women Owned Business Enterprise Procurement Program. For the goods and services required for this solicitation, there were an insufficient number of certified M/WBEs; therefore, no subcontracting goals were established.</p>			
Additional Backup Information				

The contracts provide labor, materials, and expertise for the repair of all power plant valves in order to facilitate emergency and maintenance activities at Austin Energy power plants. Valve repair is used on an as-needed basis to repair all types of valves in the power plants. Many of the valves are very costly and require specialized equipment and training to repair.

Multiple contractors are required to ensure the ability to perform each scope of work in a timely manner. As projects are identified, each contractor will be given the opportunity to submit pricing. The contractor submitting the lowest quote that meets the schedule and other requirements of the individual project will be awarded the work.

An evaluation team with expertise in this area evaluated the offers and scored Megawatt Machine Services, LLC and Setpoint Integrated Solutions, Inc. as the best to provide these services based on technical solution and program, experience, and qualifications, safety, total evaluated cost, and local business presence.

This request allows for the development of a contract with a qualified offeror selected by Council. If the City is unsuccessful in negotiating a satisfactory contract with the selected offeror(s), negotiations will cease and staff will return to Council so that another qualified offeror may be selected, authorizing new contract negotiations.

The current contract expires November 23, 2016, therefore, a new contract is required to ensure that the maintenance plans of the power plants stay on schedule.

A complete solicitation package, including a response list, is on file in the City's Purchasing Office and is available on the City's Financial Services Austin Finance Online website. Link: [Solicitation Documents](#)

**MEGAWATT MACHINE SERVICES, LLC and SETPOINT INTEGRATED SOLUTIONS, INC.**





	# months	Contract Amount	Contract Amendment	Revised Amount
Original Term	24	\$ 1,000,000	n/a	n/a
Extension Option 1	24	\$ 750,000	n/a	n/a
Extension Option 2	24	\$ 750,000	n/a	n/a
<b>TOTAL</b>	<b>72</b>	<b>\$ 2,500,000</b>	<b>\$ -</b>	<b>\$ -</b>

EVALUATION MATRIX  
RFP CAK0003REBID  
Valve Repair, Replacement, Testing, & Maintenance

Evaluation Category	Maximum Points	Megawatt Machine Services LLC	Setpoint Integrated Solutions, Inc.	GE Oil & Gas Dresser Inc.	Celtex Industries Inc.	Team Industrial Services, Inc.
Technical Solution & Program	30	19	23.7	15	*	*
Experience & Qualifications	35	24.3	19.7	15	*	*
Safety	10	5.3	7	3.3	*	*
Cost	15	15	11.5	13	*	*
Local Business Presence	10	0	0	0	*	*
<b>Total</b>	100	63.6	61.9	46.3	*	*

\* Deemed Non-Responsive – Did not meet the requirements of the solicitation related to the Minority Owned and Women Owned Business Enterprise Procurement Program.

NOTE: As per Section 252.049 of the local government code, contents of a proposal shall remain confidential until a contract is awarded. Therefore, the matrix will include points awarded for price but exact pricing will not be disclosed.

<div style="text-align: center;"> <div style="display: flex; justify-content: space-around; font-weight: bold; letter-spacing: 0.5em;">A U S T I N C I T Y C O U N C I L</div> <div style="background-color: #0056b3; color: white; padding: 5px; font-weight: bold; font-size: 1.2em;">A G E N D A</div> <div style="display: flex; justify-content: space-around;">     </div> </div>				
<b>Recommendation for Council Action (Purchasing)</b>				
Austin City Council	Item ID:	62722	Agenda Number	
Meeting Date:	October 6, 2016			
Department:	Purchasing			
Subject				
Authorize award and execution of a contract with CANNON INSTRUMENT COMPANY, to provide an automatic kinematic viscometer, in an amount not to exceed \$71,136.				
Amount and Source of Funding				
Funding is available in the Fiscal Year 2016-2017 Capital Budget of Austin Energy.				
Fiscal Note				
A fiscal note is attached.				
Purchasing Language:	The Purchasing Office issued an Invitation for Bids (IFB) GGH0162 for these goods and services on February 3, 2016 which closed on March 22, 2016 with two offers received. The recommended offer is the sole responsive offer submitted by a responsible offeror. Additional information on the solicitation is included below the line.			
Prior Council Action:				
For More Information:	Gabriela G. Harthcock, Buyer I, 512-322-6118			
Boards and Commission Action:	September 19, 2016 - To be reviewed by the Electric Utility Commission.			
Related Items:				
MBE / WBE:	This solicitation was reviewed for subcontracting opportunities in accordance with City Code Chapter 2-9D Minority Owned and Women Owned Business Enterprise Procurement Program. For the goods and services required for this solicitation, there were insufficient subcontracting opportunities; therefore, no subcontracting goals were established.			
Additional Backup Information				



The contract is for the purchase of an automatic viscometer used to measure oil's resistance to flow at a certain temperature. The viscosity of oils is regularly monitored at Austin Energy power generation facilities to ensure that equipment is properly lubricated, which is essential in maintaining reliability.

The new viscometer will replace an outdated, less efficient and less accurate manual model, allowing Austin Energy to more accurately and quickly measure viscosity. This upgrade will improve data quality, decrease processing time per sample, and free personnel to perform other duties. The viscometer will be used at various locations including the Sand Hill Energy Center, Decker Creek Power Station, Mueller Energy Center, and Domain District Cooling Plant.

The manual viscometer currently used by Austin Energy is at the end of its useful life. Without an accurate viscometer, Austin Energy will be unable to analyze and interpret the condition of the oils in its power generation equipment which may jeopardize proper maintenance.

**BID TABULATION**

IFB GGH0162

Automatic Kinematic Viscometer

4 Line Items – Qty. 1

Vendor

Extended Price

Cannon Instrument Company

\$71,135.26

Integral Logistics Corp.

\*

\* Deemed Non-Responsive: Did not meet the requirements of the solicitation.

A complete solicitation package, including a bid tabulation, is on file in the City's Purchasing Office and is available on the City's Financial Services Austin Finance Online website. Link: [Solicitation Documents](#)