

# Electrify Heartland Plan

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## Appendix W: Contributors



**Project title:** Kansas – Missouri  
Community Readiness for EV and EVSE

**Funded by:** US DOE DE-EE0005551

**By:** Metropolitan Energy Center  
and Kansas City Regional Clean Cities Coalition

**With:** Black & Veatch





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This work was developed in response to the federal funding opportunity announcement titled Clean Cities Community Readiness and Planning for Plug-in Electric Vehicles and Charging Infrastructure. FOA: DE-FOA-0000451

CFDA Number 81.086



# Electrify Heartland Plan

## Electrify Heartland Project Abstract

Electrify Heartland is an electric vehicle planning project managed by Metropolitan Energy Center. It is a product of the Greater Kansas City Plug-In Readiness Initiative, co-chaired by Kansas City Regional Clean Cities Coalition. Our goal is to produce a regional plan to prepare public resources and secure the economic and environmental benefits of plug-in vehicles within targeted metro areas with estimated 2.7M population. The targeted metro areas include Kansas City, MO & KS; Jefferson City, MO, Wichita, KS; Salina, KS; Lawrence, KS; and Topeka, KS. (14 Counties: Cass, Clay, Cole, Douglas, Jackson, Johnson, Leavenworth, Miami, Platte, Ray, Saline, Sedgwick, Shawnee, Wyandotte).

## Electrify Heartland Steering Committee

Team	Organization	Name
Charging Stations	Initiatives	Troy Carlson
Charging Stations	LilyPadEV	Larry Kinder
Charging Stations	Logios	Gustavo Collantes
Government Policy	Polsinelli Shughart PC	Alan Anderson
Government Policy	Black & Veatch	Bill Roush
Project Administration	Metropolitan Energy Center	Ruth Redenbaugh
Project Administration	Metropolitan Energy Center	Kelly Gilbert
Public Education	Nation Ranch Marketing, Inc.	Bill Patterson
Training	Kansas City Kansas Community College	Bob McGowan
Training	National Electrical Contractors Association	Jim Cianciolo
Utility Grid	Black & Veatch	Sam Scupham
Vehicle & Fleet	University of Missouri at Kansas City	Henry Marsh

Exhibit i-i. Electrify Heartland Steering Committee Members



## Table of Appendices

The following appendices are in separate files on [www.ElectrifyHeartland.org](http://www.ElectrifyHeartland.org)

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- B. Greater Kansas City Plug-in Readiness Strategy
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- D. EVSE Permitting Recommendations
- E. Federal Highway Administration Signage Memorandum
- F. EV Business Coalition
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- J. Electric Vehicle Fleet Tools
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- M. Initial Website Map
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- O. EV Ready Communities
- P. Sample Presentations about EV Forecasts and Redirected Spending Potential
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# Appendix W: Contributors

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## Synopsis:

In this appendix of the Electrify Heartland Plan, we acknowledge individuals and organizations for their contributions to the development and public release of our plan for EV and EV charging equipment. Detailed biographies are provided for steering committee members who led a team on a particular subject matter.

## Section Author:

Ruth Redenbaugh, Metropolitan Energy Center

## W.1 Individual Contributors

### Biographies of Team Leaders and Authors

#### Alan Claus Anderson of Polsinelli Shughart

**Alan Claus Anderson** is the vice chair of the firm's national Energy practice group. He has extensive experience representing and serving as lead deal counsel and outside general counsel to public and private companies in the energy industry. He advises domestic and international oil and gas, wind and solar companies in all phases of the development and finance process. Mr. Anderson also regularly represents oil & gas companies and serves as their outside general counsel. He advises energy clients in the full range of activities including reviewing, structuring and negotiating acquisitions and development projects both domestically and internationally, and was selected for membership in the Association of International Petroleum Negotiators. A former in-house counsel at a publicly traded oil and gas company, he has led numerous successful negotiated oil and gas acquisitions and joint development projects domestically and internationally.

Mr. Anderson also represents developers, lenders, investors and suppliers in renewable energy projects throughout the country that represent more than 3,500 MW in wind and solar projects under development and more than \$2billion in wind and solar projects in operation. He also has significant experience assisting non-United States companies on their entry into the United States market; including one of the largest Germany-based solar companies on its entry into the United States and successful projects throughout North America.



An active participant in the energy industry, Mr. Anderson is a frequent speaker and writer on energy issues. Mr. Anderson has also been selected to lead two U.S. Department of Energy projects related to distributed solar finance issue and electric vehicle deployment as well serving as the Chair of the Kansas City Area Development Council's Advanced Energy and Manufacturing Advisory Council. He received his undergraduate degree from Washington State University and his law degree from the University of Oklahoma.

#### **Troy Carlson of Initiatives**

**Troy Carlson** is a business executive with 25 years of diverse business development and leadership experience. He has a proven track record for driving business growth and increasing market share in a competitive environment. Throughout his career, he has consistently taken various businesses to the next level through vision, strategic planning and execution. He led a business development project with a consortium of construction labor and management groups called the Kansas City Construction Partners (KCCP) where he received the Labor Management Cooperation Leadership Award. Mr. Carlson also led the establishment of the Kansas Logistics Park that now serves as the foundation for the wind energy manufacturing and logistics industry cluster. In 2009, he helped land its first client: a \$66million wind energy manufacturing facility that will employ over 400 people. Mr. Carlson graduated Magna Cum Laude with a BA from Wichita State University. His professional affiliations include selection as a “40 under 40” business leader in 2001 by the Wichita Business Journal, 2000-2002 Past Chairman of the Wichita Area Outlook Team for the Center for Economic Development and Business Research, 1997 Past President for the Central Kansas Association of Health Underwriters, current member of KansasBio, MoBio, the Better Business Bureau of Greater Kansas City and a member of the Greater Kansas City Chamber of Commerce. Mr. Carlson understands the challenges and rewards of leading and managing a profitable business from both the top and bottom lines.

#### **Crista Childers of Metropolitan Energy Center**

**Crista Childers** assisted Electrify Heartland project management as an intern with the transportation programs of Metropolitan Energy Center. Ms. Childers earned a Bachelor of Science in Geology from University of Missouri – Kansas City where she was involved in undergraduate research, worked and traveled with mentors and graduate students, funded by the SEARCH grant.

#### **Jim Cianciolo of Kansas City Joint Apprenticeship and Training Center**

**Jim Cianciolo** is a 35-year member of the International Brotherhood of Electrical Workers. He is a licensed Master Electrician and a BICSI Registered Communications Distribution Designer (RCDD). Mr. Cianciolo is currently the Training Director for the Kansas City Joint Apprenticeship and Training Center for Local Union 124 of the IBEW. He is a Master



Instructor for the Electric Vehicle Infrastructure Training Program (EVITP), serves on the curriculum development committee and also volunteers for Electrify Heartland.

#### **Gustavo Collantes of Logios**

**Gustavo Collantes** is the President and CEO of Logios ([www.logios3i.com](http://www.logios3i.com)), a company dedicated to advanced solutions for the integration of renewable energy and to consulting in clean transportation. Dr. Collantes provided valuable expertise to Electrify Heartland by preparing the EVSE planning along traffic corridors. He has 12 years of experience in clean transportation analysis and policy with particular emphasis on transportation electrification.

Dr. Collantes chaired the State Plug-in Electric Vehicle Task Force in the State of Washington, where he headed seminal efforts on transportation electrification, including the multi-stakeholder development of the first charging infrastructure development regulations in the United States and the planning of the first regional electric vehicle corridor along I-5 and US-2.

#### **Kelly Gilbert of Metropolitan Energy Center**

**Kelly Gilbert** has been with Metropolitan Energy Center since 2008, coordinating its Kansas City Regional Clean Cities Coalition, and was named Transportation Director in 2010. She led a proposal group of 17 partners that received a \$15 million Clean Cities Recovery Act grant, which supports the installation of a variety of alternative fuel refueling stations and the deployment of more than 350 alternative fuel and advanced technology vehicles. She co-chaired the Greater Kansas City Plug-In Readiness Initiative to prepare the metro area for electric vehicles. The effort led to a second grant award to MEC in 2011 for Electrify Heartland to further develop EV-readiness in Kansas and Missouri.

Under Mrs. Gilbert's leadership, the Clean Cities coalition facilitates partnerships among government, fleets, and service providers; holds quarterly stakeholder meetings and events; provides technical assistance to fleets and coordinates grant opportunities for stakeholders and members. It launched a Green Fleet initiative in 2010.

Mrs. Gilbert serves on the board of directors of the Squash Blossom Food Cooperative, a corporation dedicated to bringing local natural foods to Greater Kansas City, and is a Master Food Volunteer through the MU Extension. Prior to her work at Metropolitan Energy Center, Mrs. Gilbert worked in the publishing industry.

#### **Luke Hagedorn of Polsinelli Shughart**

**Luke A. Hagedorn** focuses on assisting public utilities, energy industry organizations, and renewable developers on a number of complex legal issues related to transactional matters and state and federal regulatory compliance. His energy practice also helps renewable



energy developers navigate a broad range of complex legal issues arising out of the development of renewable resources, including land leasing, state and federal environmental and endangered species requirements, farmland conservation, project finance, tax equity, sites and permits and purchase power agreements. Mr. Hagedorn also created and is the main author of a blog focusing upon renewable energy legal issues, [www.RenewableEnergyLawInsider.com](http://www.RenewableEnergyLawInsider.com).

#### Larry Kinder of LilyPad EV

**Larry Kinder** is the CEO and founder of LilyPad EV, a provider of electric vehicle charging stations. Mr. Kinder is committed to a cleaner world with increased energy independence by using domestic electricity as a transportation fuel in a manner that makes solid business sense. He formed LilyPad EV to help create the charging infrastructure needed by drivers of plug-in electric vehicles that are arriving from almost all auto manufacturers.

He doesn't just 'talk the talk'; he 'drives the drive'. Having driven over 14,000 electric miles, Mr. Kinder is a knowledgeable electric transportation advocate and entrepreneur striving to help communities, businesses, and individuals benefit from electric transportation.

The LilyPad EV team has worked with many customers, large and small, to purchase, install and maintain electric charging stations. Mr. Kinder regularly speaks to communities and organizations to educate and help prepare them for plug-in readiness, economic growth, and a cleaner, greener future.

#### Henry Marsh of University of Missouri-Kansas City

**Henry Marsh** is a Fleet Supervisor and Store Room Supervisor for eighteen years with the University of Missouri-Kansas City. He oversees the fleet of 94 vehicles and manages maintenance supplies for Facilities Management, monitors and schedules vehicles for maintenance, advises departments on vehicle replacement, assists with vehicle purchase specifications, purchases fuel, writes bid specifications for parts, tools, equipment, services, and vehicles, is responsible for the university campus shuttle bus operation, and provides input for safety, DOT requirements and vehicle replacement budget. As project manager for a recycling project, he helped implement a recycling program for the University and currently serves on the Sustainability Committee for the improvement of the campus environment. The recycling project involved campus-wide training in ten selected buildings, distribution of recycling containers, and tracking man hours and resources for the University of Missouri-Kansas City commitment to the program. Through his project management for a Recovery Act – funded grant, Midwest Region Alternative Fuels Project, he added an electric medium-duty truck and one public-access electric vehicle charging station. Mr. Marsh earned a Bachelor of Arts Management from Park University and





Associate of Applied Science in Automotive Technology from Metropolitan Community College, Longview Campus.

#### **Bob McGowan of Kansas City Kansas Community College**

**Bob McGowan** is Associate Professor of Auto Technology at Kansas City Kansas Community College, where he initiated the Hybrid and Electric Vehicle Program to allow students to apply the technical skill necessary to repair hybrid electric, electric, and fuel celled vehicles. Mr. McGowan developed the program of study based on a survey he conducted of colleges in the area and includes high voltage safety, high voltage batteries, charging, inverter/converter operation, cooling systems, transmission, engines, and basic fuel cell technologies. Mr. McGowan is currently developing a program for students to concurrently earn a GED while earning an Automotive Technology certificate. The Hybrid and Electric Vehicle Program immerses the student in the latest theory, demonstration, and hands-on practice of this technology. Students use tools and diagnostic equipment from industry to understand, diagnose, and repair hybrid and electric vehicles in a professional atmosphere. Mr. McGowan believes actual "hands-on" training is essential because it allows students to learn by gaining job experience combined with the related technical information. Applied training at the college's Technology Education Center includes on-campus repairs to vehicles brought in by the public, insurance companies and manufacturing industry.

#### **Bill Patterson of Nation Ranch**

**Bill Patterson** is founder and president of Nation Ranch, a marketing communications company specializing in brand management, public relations and crisis communications.

As a member of the Electrify Heartland Steering Committee, Mr. Patterson helped create public communications and outreach materials to educate civic and business leaders and the community at large on the positive economic and environmental impact the electric vehicle and related industries have in the region.

A native Kansas Citian, Mr. Patterson has more than 20 years' experience in marketing communications, representing a variety of industries including aviation, hospitality and tourism, financial services and economic development.

He holds a Bachelor of Science Degree from Boston University.

#### **Sebastian Ramos of Metropolitan Energy Center**

**Sebastian Ramos** completed research in a variety of alternative fuel and emerging technologies as an intern with the transportation programs of Metropolitan Energy Center. Mr. Ramos earned a Bachelor of Environmental Science from University of Missouri – Kansas City.



### Ruth Redenbaugh of Metropolitan Energy Center

**Ruth M. Redenbaugh** is a grant manager for Clean Cities projects at Metropolitan Energy Center. Ms. Redenbaugh has developed and led a strong team of community leaders on the Electrify Heartland project since 2011. Key areas of training, building codes, permitting processes, utility grid, public outreach, marketing, and incentives were all addressed. Prior to Electrify Heartland, Ms. Redenbaugh led the Midwest Region Alternative Fuel Project from 2010-2011. The \$40M Recovery Act project partners with energy industry pioneers to reduce petroleum use, create infrastructure, and deploy vehicles that use alternative fuels in MO, KS, and NE.

Ms. Redenbaugh earned a Bachelor of Applied Science in Data Processing Management from St Mary's University in San Antonio, TX. She garnered her years of technology experience to lead special projects such as ways of making television interactive, telecommunications leading-edge, communication more productive and publishing more sensible. Sometimes she can be found volunteering her time as an elected precinct committee woman or by assisting neighborhood associations or gardening, sewing, or listening to Kansas City blues.

### William Roush of Black & Veatch

**William Roush** is a renewable energy specialist in Black & Veatch's Consulting Engineering Services group, providing feasibility studies, due diligence, planning, and project development support for a variety of energy technologies, including wind, biomass, solar, energy storage and electric vehicles. Mr. Roush has nearly 30 years of experience with renewable energy. This includes 10 years as the owner of a solar photovoltaic product manufacturing and system integration company. Mr. Roush is currently the President of the Heartland Chapter of the Solar Energy Industries Association. In addition, he serves on the Solar Electric Power Association's Central Region Advisory Board and was a founding member of the Mid-America Electric Auto Association.

### Sam Scupham of Black & Veatch

**Sam Scupham** is the Kansas City Office Manager for Black & Veatch's Renewable Energy services business. The group provides technical assistance for energy companies, investors, governmental agencies, and industrials. Mr. Scupham is actively involved in analyses of commercial and developing renewable and energy storage technologies. These analyses are varied to include studies of technology selection, resource assessment, due diligence, feasibility, screening, supply-side analysis, and site evaluation. These studies frequently include conceptual design and estimates of thermal performance, capital cost, and operations and maintenance costs. Mr. Scupham graduated from the University of Colorado



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in Boulder with a degree in civil engineering and is a licensed Professional Engineer in Kansas. Mr. Scupham lives in Kansas City with his wife and daughter.



### Contributing Individuals

first name	last name	organization	title
Stan	Abrahamson	Metropolitan Community Colleges (MCC)	Director Automotive
Ron	Achelpohl	Mid America Regional Council (MARC)	Assistant Director Transportation Planning
Stan	Adkins	Independence Economic Development Council	Business Liaison
Alan	Anderson	Polsinelli Shughart PC	Shareholder
Justin	Brockway	Kansas City Journeymen Apprentice Training Center (KCJATC)	Instructor
Kevin	Bryant	Kansas City Power & Light (KCPL)	VP Risk & Strategy
Troy	Carlson	Initatives, LLC	CEO
Crista	Childers	Metropolitan Energy Center (MEC)	Intern
Jim	Cianciolo	Kansas City Journeymen Apprentice Training Center (KCJATC)	Director of EVITP
Gustavo	Collantes	Logios	co-founder
Joseph	Connor	Unified Government Kansas City Kansas (UG KCK)	Director of Public Health
David	Corliss	City of Lawrence Kansas	City Manager
Leon	Daggett	Independence Power & Light (IPL)	
David	Deihl	Platte Clay Electric Cooperative (PCEC)	
Blake	Elliott	Kansas City Board of Public Utilities (KCK BPU-UG KCK)	
Larry	Erickson	Kansas State University	Professor Chemical Engineering
Bill	Estes	Platte Clay Electric Cooperative (PCEC)	
Kelly	Gilbert	Metropolitan Energy Center (MEC)	Director of Transportation
Marcie	Gragg	Independence Power & Light and City of Independence Missouri	Councilwoman
Luke	Hagedorn	Polsinelli Shughart PC	Attorney Energy Law Practice Group
Colin	Hansen	Kansas Municipal Utilities	
Kevin	Herdler	St. Louis Regional Clean Cities	Coordinator
Eileen	Horn	City of Lawrence and County of Douglas Kansas	Sustainability Coordinator
Kay	Johnson	City of Wichita Kansas	Sustainability Director
Nolan	Jones	NIC USA	Director of eGovernment Innovations
Kevin	Kelley	Metropolitan Community Colleges (MCC)	Automotive Instruction Director
Larry	Kinder	LilyPad EV	Founder
Robert	Layton	City of Wichita Kansas	City Manager
Matt	Lehrman	Westar Energy	Smart Star Program Analyst
Tom	Lesnak	Independence Economic Development Council	President
Paul	Mahlberg	Independence Power & Light (IPL)	
Roland	Maliwat	Kansas City Power & Light (KCPL)	Sustainability Manager
Henry	Marsh	University of Missouri at Kansas City (UMKC)	Fleet Manager
Erik	Mayer	Pittsburg State University	Automotive Instruction Director
Chad	Mazurek	Black & Veatch	Power System Studies Electrical Engineer
Bob	McGowan	Kansas City Kansas Community College (KCKCC)	Automotive Instruction Director
Lucas	Oehlerking	Black & Veatch	Renewable Energy Consultant
Jay	Patel	Kansas City Power & Light (KCPL)	
Bill	Patterson	Nation Ranch Marketing	Founder
Bob	Peck	City of Salina	Fleet Manager
Rory	Perrodin	Metropolitan Community Colleges (MCC)	Automotive Instruction Director
Al	Pugsley	Mid America Electric Automobile Association (MAEAA)	President
Sebastian	Ramos	Metropolitan Energy Center (MEC)	Intern
Ruth	Redenbaugh	Metropolitan Energy Center (MEC)	Grant Manager
Steve	Rees	Mind Drive	CEO
Bill	Roush	Black & Veatch	Renewable Energy Consultant
Sam	Scupham	Black & Veatch	Manager Renewable & Energy Efficiency
David	Springe	State of Kansas	Consumer Counsel for Citizens Rate Payer Board
Gregory	Thomas	Kansas University (KU)	Director Center for Design and Research
Steve	Tiesing	Independence Power & Light (IPL)	Director
Craig	Weinaug	County of Douglas Kansas	County Administrator



## W.2 Organizations

### Supporting Organizations of the Electrify Heartland steering committee



#### Black & Veatch

**Black & Veatch** is an employee-owned, global leader in building Critical Human Infrastructure™ in Energy, Water, Telecommunications and Government Services. Since 1915, we have helped our clients improve the lives of people in over 100 countries through consulting, engineering, construction, operations and program management. Our revenues in 2011 were US\$2.6 billion. Follow us on [www.bv.com](http://www.bv.com) and in social media.

#### Initiatives

**Initiatives** provide the expertise to ask the right questions and get the right answers from the right people. We develop and execute market-based strategies that drive results by providing business development services that work. Over the years since establishment in 2005, Initiatives has proven success serving private investors, large medium and small companies, unions, universities, and public/private partnerships.

#### Kansas City Kansas Community College (KCKCC)

**Kansas City Kansas Community College** is a public, urban, open-door, and comprehensive community college committed to excellence in higher education. Through an accessible and supportive learning environment, the college mission is to provide higher education and lifelong learning to the varied communities, primarily in its service area of Wyandotte and



Leavenworth counties. KCKCC was founded in 1923 and is accredited by The Higher Learning Commission, a commission of the North Central Association and the Kansas Board of Regents. The College is approved by the Kansas Veterans Commission and the Veterans Administration for veterans' college training. The Technical Education Center (TEC) offers over 20 hands-on technical skill training programs during the day which lead to certificates and employment in office and computer technology, service and health occupations, or trade and industrial fields. Anyone wanting to improve his/her employment potential including college graduates, home makers, dislocated workers, high school seniors, those no longer in school, and senior citizens will receive the hands-on technical education that employers want. TEC curriculum is aligned with business and industry standards. Advanced students may participate in work-based learning experiences or internships. Leadership skills are also developed through opportunities with national student organizations.

### **Kansas City Regional Clean Cities Coalition**

**Kansas City Regional Clean Cities Coalition** Administered by Metropolitan Energy Center, the coalition is a public-private partnership among fleet managers and manufacturers, vendors and service providers in the alternative fuels and vehicle industries. It works in communities across Kansas and in western Missouri. Kansas City's coalition is a partner since 1998 with the U.S. Department of Energy's Clean Cities Program, whose mission is to advance the energy, economic, and environmental security of the United States by supporting local actions to reduce petroleum use in transportation. The coalition administers more than \$40 million in clean transportation projects in Kansas, Missouri, Iowa and Nebraska. For more information visit [www.metroenergy.org/kccleancities.aspx](http://www.metroenergy.org/kccleancities.aspx).

### **LilyPad EV**

**LilyPad EV** is 'Charged Up' about Electric Transportation. We don't just sell electric charging solutions; we educate, implement, and live it! A trusted provider and advocate of electric charging technology since 2009, LilyPad EV makes it easy for you to get 'plugged-in'. We will guide you through the process step by step to plan, purchase, install and maintain your electric vehicle charging system. Our experience and knowledge means we provide full service solutions to go the extra mile to assess your site, understand your needs, and recommend the best charging stations, installations and features for your home, business, workplace, or city.

Electric vehicle charging is a business, but it's also a passion for us. It's our mission to help prepare homes, businesses and cities for the shift in transportation towards sustainable, profitable electric energy. We know that electric transportation is not only good for the planet, it's good for the economy, providing new business and revenue opportunities. Our goal is to help you take advantage of cleaner, cheaper electric transportation to improve both the planet and your bottom line



## Logios

**Logios** proprietary technology eliminates the uncertainty and ineffective integration of energy from wind farms and other sources of variable energy. Our algorithms effectively balance and recover surplus energy production, and deliver zero-carbon energy to target users and loads at lower prices. We use real time data at levels of precision currently unused, to achieve better load balance and integration into the grid. As a result, energy generators can bring their entire product to market, delivering economic, environmental and societal benefits.

## Metropolitan Energy Center (MEC)

**Metropolitan Energy Center** is a nonprofit organization with a threefold mission to create resource efficiency, environmental health, and economic vitality in the Kansas City region. Over the past three decades, MEC has grown to be a recognized catalyst for regional energy partnerships that satisfy the triple-bottom-line approach. Founded in 1980, MEC is a catalyst for community partnerships focused on energy conservation. It works through a variety of educational and training programs, including Kansas City Regional Clean Cities Coalition, Home Performance, Project Living Proof and EnergyWorks KC. Every energy dollar conserved through MEC's work remains available for investment in the local economy. MEC was awarded more than \$17 million in federal funding for transportation projects in recent years and is a partner in other multi-million-dollar projects in Kansas and Missouri. MEC has been the recipient of many awards recognizing its contribution to energy conservation and was host of the national Affordable Comfort Conference in 2003 and 2009.

## Kansas City Joint Apprenticeship Training Center (KCJATC)

**Kansas City Joint Apprenticeship Training Center's** mission is to provide the highly skilled workforce necessary to meet customer needs and ensure job satisfaction for electrical workers. The International Brotherhood of Electrical Workers (IBEW) and National Electrical Contractors Association (NECA) teamed up to sponsor the most rigorous and respected apprenticeship training programs. NECA represents union electrical contractors who guarantee their installations, who perform quality work on time and on budget, and who take a special interest in their employees. The IBEW is the largest electrical union in the world. The IBEW represents workers' rights in all area of the electrical and telecommunications industries. Some of the programs offered by KCJATC include photovoltaic installation, electrical safety-related work practices, and Electric Vehicle Infrastructure Training Program (EVITP). EVITP comprehensively addresses the requirements, regulations, products and strategies which enable electrical contractors and electricians to master successful, expert and professional customer relations, installation and maintenance of electric vehicle (EV) and plug-in hybrid vehicle (PHEV) infrastructure across residential, commercial and public markets.





### **Nation Ranch**

**Nation Ranch** is a Kansas City, Mo. – based marketing consulting firm specializing in brand management, public relations and crisis communications. The company offers strategic planning and brand development services, internal communications, social and mass media relations and public relations, sales and customer service support and crisis communications counseling.

### **Polsinelli Shughart PC**

**Polsinelli Shughart PC** is one of the top 100 law firms in the country, according to The National Law Journal, with more than 600 attorneys in 16 cities stretching from Washington, D.C. to Los Angeles. The Overland Park office of Polsinelli Shughart PC has emerged from its original opening in 1984 to the second largest law firm in the State of Kansas. Our 45-member strong practice is particularly known in the areas of real estate, business litigation, and wealth planning and administration. However, these are not the only areas of law that Kansas-based businesses engage Polsinelli Shughart. The firm’s clients also are being represented in energy and utilities law, science and technology, intellectual property, and health care law, among others. Some of the many practice areas include energy, environmental, labor and employment, public policy, technology, and zoning and land use. Polsinelli Shughart is a recognized leader in renewable energy. Our lawyers have broad experience in all aspects of the development, financing, operation, and purchase and sale of renewable energy assets, including experience in the wind, solar, biomass, geothermal, biofuels and other renewable energy sectors. Polsinelli Shughart PC is fully equipped to assist regulated and non-regulated utilities with a broad spectrum of their unique legal issues. Our attorneys have advised clients on state and federal regulatory issues before the Kansas Corporation Commission, Missouri Public Service Commission, and the Federal Energy Regulatory Commission, including regulatory compliance, transmission interconnections, certification proceedings, general proceedings, general ratemaking, mergers and acquisitions, rate tariff applications and rulemaking proceedings.

### **University of Missouri – Kansas City (UMKC)**

**University of Missouri at Kansas City** is a public research university located in Kansas City, Missouri. It is a branch of the University of Missouri System. UMKC’s green transportation initiatives include integrating student, faculty and staff all-access bus passes, increasing the number of bike racks and amenities, and developing a multi-modal parking structure to support cycling, bus commuting, pedestrians, ride-share and alternative fuel vehicles. The University participates in a group of 17 partners that received a \$15 million U.S. Department of Energy Clean Cities Initiative grant from the Recovery Act. The grant will support the installation of a variety of refueling stations and aid in the deployment of





more than 350 alternative fuel and advanced technology vehicles. Through the grant, UMKC purchased a Smith Electric Vehicles Newton electric truck for pickup and delivery of campus recycling. Wrapped with a design that promotes sustainability on campus using the UMKC Sustainability logo, the Newton truck is powered by the latest Lithium-Ion batteries and a 120kw electric motor, has a top speed of 50mph (80km) and a range in excess of 100 miles (160km) on a full charge. It can be recharged in six hours. UMKC is ranked in the top 50 of campuses nationally by Sierra Club Top Green Schools. We all work hard to make this happen on campus and are proud that we are the Midwest campus that could.



## Contributing Organizations

organizations	web sites
Black & Veatch	<a href="http://bv.com">http://bv.com</a>
City of Columbia Missouri	<a href="http://www.gocolumbiamo.com/">http://www.gocolumbiamo.com/</a>
City of Independence Missouri	<a href="http://www.ci.independence.mo.us/Default.aspx">http://www.ci.independence.mo.us/Default.aspx</a>
City of Kansas City Missouri	<a href="http://www.kcmo.org/CKCMO/index.htm">http://www.kcmo.org/CKCMO/index.htm</a>
City of Lawrence Kansas	<a href="http://www.lawrenceks.org/">http://www.lawrenceks.org/</a>
City of Manhattan Kansas	<a href="http://www.ci.manhattan.ks.us/">http://www.ci.manhattan.ks.us/</a>
City of Salina Kansas	<a href="http://www.salina-ks.gov/">http://www.salina-ks.gov/</a>
City of Wichita Kansas	<a href="http://www.wichita.gov/">http://www.wichita.gov/</a>
County of Douglas Kansas	<a href="http://www.douglas-county.com/">http://www.douglas-county.com/</a>
County of Johnson Kansas	<a href="http://www.jocogov.org/">http://www.jocogov.org/</a>
Electric League of Missouri and Kansas	<a href="http://www.electricleague.org">http://www.electricleague.org</a>
Electrify Heartland	<a href="http://electrifyheartland.org/">http://electrifyheartland.org/</a>
Greater Kansas City Plug In Readiness Task Force (GKCPIRTF)	<a href="http://electrifyheartland.org/">http://electrifyheartland.org/</a>
Independence Economic Development Council	<a href="http://www.inedc.biz/">http://www.inedc.biz/</a>
Independence Power and Light (IPL)	<a href="http://www.ci.independence.mo.us/PL/">http://www.ci.independence.mo.us/PL/</a>
Initiatives	<a href="http://initiativesco.com">http://initiativesco.com</a>
International Brotherhood of Electrical Workers Chapter 124 (IBEW124)	<a href="http://www.ibewlocal124.org/">http://www.ibewlocal124.org/</a>
Kansas City Advanced Energy	<a href="http://kcadvancedenergy.com">http://kcadvancedenergy.com</a>
Kansas City Board of Public Utilities (KC BPU)	<a href="http://www.bpu.com/">http://www.bpu.com/</a>
Kansas City Joint Apprenticeship Training Center (KCJATC)	<a href="http://www.kcjatc124.org/">http://www.kcjatc124.org/</a>
Kansas City Kansas Community College (KCKCC)	<a href="http://kckcc.edu">http://kckcc.edu</a>
Kansas City Power & Light (KCPL)	<a href="http://kcpl.com/">http://kcpl.com/</a>
Kansas City Regional Clean Cities Coalition (KCRCCC)	<a href="http://metroenergy.org">http://metroenergy.org</a>
Kansas Municipal Utilities	<a href="http://www.kmunet.org/">http://www.kmunet.org/</a>
Kansas State University	<a href="http://www.k-state.edu/">http://www.k-state.edu/</a>
KU EcoHawks	<a href="http://groups.ku.edu/~ecohawks/">http://groups.ku.edu/~ecohawks/</a>
LilyPad EV	<a href="http://lilypaddev.com">http://lilypaddev.com</a>
Logios	<a href="http://www.logios3i.com">http://www.logios3i.com</a>
Metropolitan Community College (MCC) - Longview Campus	<a href="http://mcckc.edu/">http://mcckc.edu/</a>
Metropolitan Energy Center (MEC)	<a href="http://metroenergy.org">http://metroenergy.org</a>
Mid America Electric Automobile Association (MAEAA)	<a href="http://maeaa.org/">http://maeaa.org/</a>
Mid America Regional Council (MARC)	<a href="http://marc.org/">http://marc.org/</a>
Mind Drive	<a href="http://minddrive.org/">http://minddrive.org/</a>
Nation Ranch Marketing	<a href="http://nationranch.com">http://nationranch.com</a>
National Electrical Contractors Association (NECA)	<a href="http://necanet.org">http://necanet.org</a>
Pittsburg State University	<a href="http://www.pittstate.edu/">http://www.pittstate.edu/</a>
Platte Clay Electric Cooperative (PCEC)	<a href="http://www.pcec.coop/">http://www.pcec.coop/</a>
Polsinelli Shughart PC	<a href="http://polsinelli.com">http://polsinelli.com</a>
Smith Electric Vehicles (SEV)	<a href="http://www.smithelectric.com/">http://www.smithelectric.com/</a>
State of Kansas	<a href="http://www.kansas.gov/">http://www.kansas.gov/</a>
Unified Government Kansas City Kansas (UG KCK)	<a href="http://wycokck.org/">http://wycokck.org/</a>
University of Kansas (KU)	<a href="http://www.ku.edu/">http://www.ku.edu/</a>
University of Missouri at Kansas City (UMKC)	<a href="http://umkc.edu">http://umkc.edu</a>
Westar Energy	<a href="http://www.westarenergy.com/">http://www.westarenergy.com/</a>
Wichita Area Metropolitan Planning Organization (WAMPO)	<a href="http://www.wampoks.org/">http://www.wampoks.org/</a>