

Electrify Heartland Plan

Appendix A: EV Readiness Index



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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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

- A. EV Readiness Index
- B. Greater Kansas City Plug-in Readiness Strategy
- C. Grant Proposal for Project
- D. EVSE Permitting Recommendations
- E. Federal Highway Administration Signage Memorandum
- F. EV Business Coalition
- G. Automotive Technician Curriculum
- H. Electric Vehicle Infrastructure Training Program promotion
- I. Getting started with EV
- J. Electric Vehicle Fleet Tools
- K. Electric Vehicle Hangtag
- L. EVSE Site Host Considerations
- M. Initial Website Map
- N. Air Quality
- O. EV Ready Communities
- P. Sample Presentations about EV Forecasts and Redirected Spending Potential
- Q. EVSE Corridor Analysis
- R. Blank
- S. Blank
- T. Blank
- U. Social Media
- V. Press Kit
- W. Contributors
- X. Exhibits
- Y. Glossary
- Z. Bibliography



Appendix A: EV Readiness Index

Synopsis

The EV Readiness Index is a multiple worksheet file used by the team to identify and assign tasks for developing the Electrify Heartland Plan. An action plan was recommended by the Greater Kansas City Plug in Readiness Task Force and published in the strategic plan. That action plan was the springboard for this index, which was further refined to include tasks and then became the outline and responsibilities for the planning effort. Appendix A also includes the Team Calendar and a worksheet of assignments to complete publication of the Electrify Heartland Plan.

Section Author:

Ruth Redenbaugh, Metropolitan Energy Center



Teams to deliverables Worksheet

activities and tasks developed by 110 member Greater KC Plug in Readiness Task Force in sessions leading to response to funding opportunity																							
<i>Electrify Heartland proposal</i>		original task force					audience			activities													
		Retail Demand	Government Policy	Fleet Demand	Charging Infrastructure	Vehicle Availability	Incentives	public / consumer	biz	other	1	2	3	4	5	6	7	8	9	10	11	12	
EV	EVSE team																						
x	x	communication	x					x	x	web	1	2	3							9			
x	x	training	x	x	x			x	x	auto tech, 1st responder	1	2	3							9			
x	x	fleet demand and incentives		x					x		1	2	3	4	5					10			
x	x	gov policy		x				x		gov- city, county, state, fed	1	2	3			6	7	8					
x		infrastructure development and incentives			x			x	x		1	2	3		5							12	
x		vehicle availability and incentives				x	x	x	x	dealership	1	2	3	4							10		
x		grid			x					utilities	1	2	3									11	
										DELIVERABLES:	1	2	3	4	5	6	7	8	9	10	11	12	
										curriculum	A									9			
										marketing collateral	B									9			
										permit process	C						7						
										updated codes etc	D					6	7	8					
										process to update data	E			4	5					9	10	12	
										incentive & implementation templates	F	2											
										readiness index	G	1	2	3	4	5	6	7	8	9	10	11	12
										web site	H			4	5					9			
										reporting	I	1	2	3									

Exhibit A-1. Matrix of project tasks and deliverables.

1.1 Legend for index:

Activities by index item:	
	white/ no fill indicate secondary responsibility
	light gray means no primary responsibility
	solid gray mean primary responsibility
CRUD:	Responsibility:
C	Create responsibility
R	Review or Approve responsibility
U	Update responsibility
D	delete = no one

Exhibit A-2. Legend for project task worksheets on the following pages.

1.2 Index Teams and Tasks Worksheet

1.2.1 Project management tasks:

EV Readiness Index		Electrify Heartland Teams (see legend tab for cell content)									
category	Tasks	Communication Team	Training Team	Fleet Demand and Incentives Team	Government Policy Team	Infrastructure Development and Incentives Team	Vehicle Availability Team	Utility Grid Team	DELIVERABLE see worksheet in this file		
Demonstrated Partnerships	* collect letters of commitment								see support letters		
Stakeholder Roles	*Description of Roles for teams								see team tab		
	*plan for stakeholder team participation								see team tab		
	*chairs of teams established								see team tab		
Analysis of Barriers											
	*Permitting Barrier Analysis								see gov policy		
	*Code Barrier Analysis								see gov policy		
	*Customer and auto dealership barrier analysis								see vehicle		
	*Auto dealership Training Barrier Analysis								see vehicle		
	*Analysis of test drive/familiarity Barrier								see vehicle		
	*Analysis of non-utility EVSE ownership barrier								see infra		
	*Lack of EVSE barrier analysis								see infra		
	*Distribution grid barrier analysis								see infra		
	*Fast Charge barrier analysis								see infra		
	*Barriers to contractor training analysis								see train electr		
	*EV Rate structure barrier analysis								see utility & gov		
	*Substation capacity barrier analysis								see utility		
	*Residential metering barrier analysis (net metering) for PV EV								see utility		
	*charge/discharge into grid barrier analysis								see utility		
	*EV fuel tax barrier analysis								see utility		

Exhibit A-3. Project management tasks

1.2.2 Communications and training tasks:

EV Readiness Index		Electrify Heartland Teams (see legend tab for cell content)									
category	Tasks	Communication Team	Training Team	Fleet Demand and Incentives Team	Government Policy Team	Infrastructure Development and Incentives Team	Vehicle Availability Team	Utility Grid Team	DELIVERABLE see worksheet in this file		
EV Communication/Education/Training Plan	*public education plan	C	U		R				A		
	* training for EVSE installers, IBEW	R	C			R			A		
	* training for EV techs and dealers	R	C	R			R		A		
	*training plan for first responders	R	C	R	R	R	U		A		
EV Benefits/Incentives Promotion Plan	*education plan for fuel cost savings	C	R					R	B		
	*environmental/GHG/energy security benefit education	C	R					R	E		
	*maintenance/parking benefits	C	R						G		
	* promote incentives for EV and EVSE	U		C	R	C	C		G		
	* develop webinars for EV, EVSE audiences	R	C						H		
	* educate public officials on EV benefits and challenges	R			C				H		
	* develop requirements for web site with benefits, EVSE locations and EV options, webinar promotion	C	U	U	U	U	U	U	H		

Exhibit A-4. Communications and training tasks



1.2.3 EV and EVSE deployment tasks:

EV Readiness Index		Electrify Heartland Teams (see legend tab for cell content)							
category	Tasks	Communication Team	Training Team	Fleet Demand and Incentives Team	Government Policy Team	Infrastructure Development and Incentives Team	Vehicle Availability Team	Utility Grid Team	DELIVERABLE: see worksheet in this file
Plan PEV Vehicle Deployment	*estimate of 2015 personal EVs						C		F
	*estimate of 2015 fleet EVs			C			R		F
	*analysis of EV usage patterns			R	U	C	R	U	F
EVSE Deployment Plan	*estimate of # of consumers with access to residential charging now and project trends					C		R	G
	*an estimate of # of consumers with access to workplace EVSE now and project trends					C		R	G
	*estimate of # of publically available EVSE now and project trends					C		R	G
	* determine data flow and processes for updating maps of EVSE locations	R		U	U	C			E
	*analysis of EVSE/Grid send/receive information issues					R		C	G
	*analysis of barriers to EVSE for multifamily dwellings					C		R	G
	*an estimate of EVSE costs and potential funding					C		R	E
Develop Corridors	*identify needed corridors				U	C			E
	*identify needed signage				U	C			E
	*identify barriers				U	C			G
	*plan for deployment goals				U	C			G

Exhibit A-5: EV and EVSE deployment tasks

1.2.4 Government policy tasks:

EV Readiness Index		Electrify Heartland Teams (see legend tab for cell content)							
category	Tasks	Communication Team	Training Team	Fleet Demand and Incentives Team	Government Policy Team	Infrastructure Development and Incentives Team	Vehicle Availability Team	Utility Grid Team	DELIVERABLE: see worksheet in this file
Updated EVSE Building Code Plans	*Description of updated codes				C	R		R	D
	* develop signage and parking markings requirements	R			C	R			D
	*education plan (include multifamily)		C		R	R			D
Updated EVSE Permitting and Inspection Plans	*Description of updated permitting/inspection process			R	C				C
	*education plan				C				A
Updated EVSE Zoning and Parking Plans	*Description of updated zoning and parking rules for EVSE			R	C				D
	incentives or fines to reserve public EVSE spaces for EV only				C	R			D
	recommendations for incentives or fines to reserve private EVSE spaces for EV only				R	C			D

Exhibit A-6: Government policy tasks



1.2.5 Utility grid tasks:

EV Readiness Index		Electrify Heartland Teams (see legend tab for cell content)							
category	Tasks	Communication Team	Training Team	Fleet Demand and Incentives Team	Government Policy Team	Infrastructure Development and Incentives Team	Vehicle Availability Team	Utility Grid Team	DELIVERABLE: see worksheet in this file
Utility Grid Issues and Plan	*plan to ensure communication between EV and utility					R		C	G
	*residential and commercial distribution transformer issue plan							C	G
	*substation capacity plan for high use areas							C	G
	*analysis of KS and MO rate for EVSE							C	G
	*plan for pairing PV with EV charging stations							C	G
	*net metering plan as it relates to EVs							C	G
	*regulatory status of EV charging/discharging into grid							C	G
	*review proposed legislation for EV "road tax" issues							C	G
	*analysis of EV impact using B&V modeling tools							C	G
	*analysis of cost recovery allowed to utilities for EVSE							C	G

Exhibit A-7. Utility grid tasks

1.3 Tasks for each section

The above charts, based on the Greater KC Plug-In Readiness Task Force strategic planning, evolved into a task list with responsibilities for each section. The project DVD and the plan Website include a Microsoft Excel worksheet of the team assignments from draft document to publication. The worksheet lists responsibilities for all the sections, subsections and appendices deemed important by the team to meet the objective of producing a regional plan to prepare public resources and secure the economic and environmental benefits of plug-in vehicles.



1.4 Team Calendar

DE-EE-0005551 Quarterly Report to US DOE

2012 fiscal quarter 4

Electrify Heartland 2012

January

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

- 1 - New Year's Day
- 5 - Steering Committee
- 16 - Martin Luther King Day
- 19 - Steering Committee
- 26 - Executive committee
- 30 - 2012FQ1 report due

July

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

- 4 - Independence Day
- Independence MO Council
- 16 Wichita City Hall
- 17 Salina, Manhattan, Topeka KS
- 30 - 2012FQ3 report due

February

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29			

- 3 - GKCPRTF
- 12 - Lincoln's Birthday
- 20 - President's Day

August

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

- Presentation to US DOE in Aug

March

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

- 4-9 IEEE in Greenville, SC
- 17 - St. Patrick's Day
- 25-28 EI Summit in DC

September

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

- 3 - Labor Day
- Finalize EV plan
- end of EV planning grant
- end of DOE fiscal year

April

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

- 11 Wichita AQ meeting on EV
- 19 - VIP Revenge of Electric Car
- 20 - public launch of web site
- 22 - Earth Day
- 30 - 2012FQ2 report due

October

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

- 8 - Columbus Day
- 22 -NAFTC 1st responder training
- 24 MO Energy Policy Conference
- 30 - 2012FQ4 quarterly report due

May

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

- 6-9 EDTA in LA, CA
- 14-18 SAE EV in Troy, MI
- 28 - Memorial Day

November

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

- 2 - GKCPRTF
- 11 - Veterans' Day
- 22 - Thanksgiving Day

June

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

- Begin Where in Heartland contest
- 14 - Flag Day
- 17 - Father's Day
- 3 - Koshier Fest
- 6 - Mind Drive launch trip
- 25 - MOSEIA key note speech
- 26 - Overland Park Safety event

December

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

- 11 - event to release EV plan
- 25 - Christmas
- 31 - New Year's Eve and project complete
- 01/30/2013 quarterly report due
- 09/30/2013 final report due

Steering Committee of Team Leads meetings every other Thursday of each month Jan – Sept 2012 to review actions and issues
Team meetings scheduled and lead by team leader and co-leader on date chosen the 2nd and 4th week to work on deliverables
Quarterly meetings of Greater KC Plug-in Readiness Task Force to review quarterly report sent to DOE and any general items
Executive Committee Meeting of MEC and BV to address overall funding, progress and issues

October 30, 2012

12

Exhibit A-8. Team calendar

#	section	sub section	primary responsibility	status	1st content draft		1st review meeting		2nd content draft		2nd draft edit		final draft		sent to Bill P for design		design to web publish
					due	complete	due	complete	due	complete	due	complete	due	approved	due	complete	
0																	Bill P
01.00	1 Develop Electric Vehicle Planning Team		Ruth	done	10/01/11	10/01/11	10/04/12		10/11/12		10/15/12		10/17/12		10/17/12		10/19/12
01.01		1 1 Define project mission, scope and deliverables	Ruth	done	10/01/11	10/01/11	10/04/12		10/11/12		10/15/12		10/17/12		10/17/12		10/19/12
01.02		1 2 Develop project team	Ruth	done	10/01/11	02/28/12	10/04/12		10/11/12		10/15/12		10/17/12		10/17/12		10/19/12
01.03		1 3 Assign responsibilities, develop readiness index	Ruth	done	10/01/11	10/01/11	10/04/12		10/11/12		10/15/12		10/17/12		10/17/12		10/19/12
01.04		1 4 Planning document to include is each section: Methods of determining plans including other options considered and	Ruth		10/01/11	10/01/11	10/04/12		10/11/12		10/15/12		10/17/12		10/17/12		10/19/12
02.00	2 Plan PEV Vehicle Deployment		Bob		07/23/12	07/26/12	07/26/12	07/26/12	08/02/12	08/27/12	08/16/12		08/23/12		08/24/12		10/19/12
02.01		2 1 Estimate of 2015 personal EVs	Ruth		07/23/12		07/26/12		08/02/12		08/16/12		08/23/12		08/24/12		10/19/12
02.02		2 2 Estimate of 2015 fleet EVs	Ruth		07/23/12		07/26/12		08/02/12		08/16/12		08/23/12		08/24/12		10/19/12
02.03		2 3 Analysis of EV usage patterns	Ruth		07/23/12		07/26/12		08/02/12		08/16/12		08/23/12		08/24/12		10/19/12
03.00	3 EVSE Deployment Plan		Troy		08/20/12	08/20/12	08/23/12	08/23/12	09/06/12	09/19/12	09/13/12		09/20/12		09/21/12		10/19/12
03.01		3 1 Estimate of # of consumers with access to residential charging now and trends	Troy		08/20/12		08/23/12		09/06/12		09/13/12		09/20/12		09/21/12		10/19/12
03.02		3 2 Estimate of # of consumers with access to workplace EVSE now and forecast trends	Troy		08/20/12		08/23/12		09/06/12		09/13/12		09/20/12		09/21/12		10/19/12
03.03		3 3 Estimate of # of publically available EVSE now and forecast trends	Troy		08/20/12		08/23/12		09/06/12		09/13/12		09/20/12		09/21/12		10/19/12
03.04		3 4 Determine data flow and processes for updating maps of EVSE locations	Troy		08/20/12		08/23/12		09/06/12		09/13/12		09/20/12		09/21/12		10/19/12
03.05		3 5 Analysis of EVSE/Grid send/receive information issues	Troy		08/20/12		08/23/12		09/06/12		09/13/12		09/20/12		09/21/12		10/19/12

#	section	sub section	primary responsibility	status	1st content draft		1st review meeting		2nd content draft		2nd draft edit		final draft		sent to Bill P for design		design to web publish
					due	complete	due	complete	due	complete	due	complete	due	approved	due	complete	Bill P
03.06		3 6 Analysis of barriers to EVSE for multifamily dwellings	Troy		08/20/12		08/23/12		09/06/12		09/13/12		09/20/12		09/21/12		10/19/12
03.07		3 7 Estimate of EVSE costs and potential funding	Troy		08/20/12		08/23/12		09/06/12		09/13/12		09/20/12		09/21/12		10/19/12
04.00	4 Updated EVSE Building Code Plans		Alan	done?	07/09/12	03/09/12	07/12/12		07/19/12		08/02/12		08/09/12		08/10/12		10/19/12
04.01		4 1 Description of updated codes for neighborhoods, cities and counties to include EVSE	Alan		07/09/12	07/10/12	07/12/12		07/19/12		08/02/12		08/09/12		08/10/12		10/19/12
04.02		4 2 Develop signage and parking markings requirements	Alan		07/09/12	07/10/12	07/12/12		07/19/12		08/02/12		08/09/12		08/10/12		10/19/12
04.03		4 3 Develop public education plan for public, private and residential,	Alan		07/09/12	07/10/12	07/12/12		07/19/12		08/02/12		08/09/12		08/10/12		10/19/12
05.00	5 Updated EVSE Permitting and Inspection Plans		Alan	done?	07/09/12	07/10/12	07/12/12		07/19/12		08/02/12		08/09/12		08/10/12		10/19/12
05.01		5 1 Description of updated permitting/inspection process	Alan		07/09/12	07/10/12	07/12/12		07/19/12		08/02/12		08/09/12		08/10/12		10/19/12
05.02		5 2 Develop education plans	Alan		07/09/12	07/10/12	07/12/12		07/19/12		08/02/12		08/09/12		08/10/12		10/19/12
06.00	6 Updated EVSE Zoning and Parking Plans		Alan	done?	07/09/12	07/10/12	07/12/12		07/19/12		08/02/12		08/09/12		08/10/12		10/19/12
06.01		6 1 Description of updated zoning and parking rules for EVSE	Alan		07/09/12	07/10/12	07/12/12		07/19/12		08/02/12		08/09/12		08/10/12		10/19/12
06.02		6 2 Recommend incentives or fines to reserve public EVSE spaces for EV only	Alan		07/09/12	07/10/12	07/12/12		07/19/12		08/02/12		08/09/12		08/10/12		10/19/12
06.03		6 3 Recommendations for incentives or fines to reserve private EVSE spaces for only while charging electric vehicles	Alan		07/09/12	07/10/12	07/12/12		07/19/12		08/02/12		08/09/12		08/10/12		10/19/12
07.00	7 EV and EVSE Communication,		Patterson		07/23/12	08/07/12	08/09/12	08/09/12	08/16/12	08/29/12	08/30/12		09/06/12		09/07/12		10/19/12

#	section	sub section	primary responsibility	status	1st content draft		1st review meeting		2nd content draft		2nd draft edit		final draft		sent to Bill P for design		design to web publish Bill P
					due	complete	due	complete	due	complete	due	complete	due	approved	due	complete	
07.01		7 1 Develop public education plan including methods of finding certified electricians and dealers Jim, Randy	Jim		08/06/12		08/09/12		08/16/12		08/30/12		09/06/12		09/07/12		10/19/12
07.02		7 2 Develop public education plan including methods of finding EV dealers	Randy		08/06/12		08/09/12		08/16/12		08/30/12		09/06/12		09/07/12		10/19/12
07.03		7 3 Develop training for EVSE installers, IBEW	Jim		08/06/12		08/09/12		08/16/12		08/30/12		09/06/12		09/07/12		10/19/12
07.04		7 4 Develop training for EV techs and dealers Bob, Randy, Henry	Bob		08/06/12	07/26/12	08/09/12		08/16/12		08/30/12		09/06/12		09/07/12		10/19/12
07.05		7 5 Develop training for EV dealers	Randy		08/06/12		08/09/12		08/16/12		08/30/12		09/06/12		09/07/12		10/19/12
07.06		7 6 Develop training for EV fleets	Henry		08/06/12		08/09/12		08/16/12		08/30/12		09/06/12		09/07/12		10/19/12
07.07		7 7 Develop training plan for first responders	Jim		08/06/12		08/09/12		08/16/12		08/30/12		09/06/12		09/07/12		10/19/12
07.08		7 8 Develop public and elected officials communications materials	Ruth		08/06/12		08/09/12		08/16/12		08/30/12		09/06/12		09/07/12		10/19/12
07.09		7 9 Design presentations, webinars, web and social media campaigns for each	Patterson		08/06/12		08/09/12		08/16/12		08/30/12		09/06/12		09/07/12		10/19/12
08.00	8 EV Benefits/Incentives Promotion Plan		Patterson		09/17/12	09/17/12	09/20/12	09/20/12	09/27/12		10/04/12		10/11/12		10/12/12		10/19/12
08.01		8 1 Consider audiences for incentive and promotion planning	Patterson		09/17/12		09/20/12		09/27/12		10/04/12		10/11/12		10/12/12		10/19/12
08.02		8 2 Develop education plan for fuel cost savings	Ruth		09/17/12		09/20/12		09/27/12		10/04/12		10/11/12		10/12/12		10/19/12
08.03		8 3 Develop environmental/GHG-Green House Gases/energy security benefit education	Bill R		09/17/12		09/20/12		09/27/12		10/04/12		10/11/12		10/12/12		10/19/12
08.04		8 4 Develop maintenance/parking benefits Bob & Luke	Bob				07/26/12		08/02/12		08/16/12		08/23/12		08/24/12		10/19/12

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0																	Bill P
08.05		85 Promote incentives for EV and EVSE Bill P for tax credit	Patterson		09/17/12		09/20/12		09/27/12		10/04/12		10/11/12		10/12/12		10/19/12
08.06		86 Develop webinars for EV audiences	Bob				07/26/12		08/02/12		08/16/12		08/23/12		08/24/12		10/19/12
08.07		87 Develop webinars for EVSE audiences	Jim		09/17/12		09/20/12		09/27/12		10/04/12		10/11/12		10/12/12		10/19/12
08.08		88 Educate public officials on EV benefits and challenges	Ruth		09/17/12		09/20/12		09/27/12		10/04/12		10/11/12		10/12/12		10/19/12
08.09		89 Develop requirements for web site with benefits, EVSE locations and EV options, webinar promotion	Patterson		09/17/12		09/20/12		09/27/12		10/04/12		10/11/12		10/12/12		10/19/12
09.00	9 Utility Grid		Sam		08/31/12	08/31/12	09/06/12	09/06/12	09/13/12		09/20/12		09/27/12		09/28/12		10/19/12
09.01		91 Plan to ensure communication between EV and utility	Sam		08/31/12		09/06/12		09/13/12		09/20/12		09/27/12		09/28/12		10/19/12
09.02		92 Plan to identify and address issues with residential and commercial distribution transformer	Sam		08/31/12		09/06/12		09/13/12		09/20/12		09/27/12		09/28/12		10/19/12
09.03		93 Capacity plan for substation high use areas	Sam		08/31/12		09/06/12		09/13/12		09/20/12		09/27/12		09/28/12		10/19/12
09.04		94 Analysis of KS and MO rate for EVSE	Sam		08/31/12		09/06/12		09/13/12		09/20/12		09/27/12		09/28/12		10/19/12
09.05		95 Plan for pairing PV with EV charging stations	Sam		08/31/12		09/06/12		09/13/12		09/20/12		09/27/12		09/28/12		10/19/12
09.06		96 Plan for net metering as it relates to EVs	Sam		08/31/12		09/06/12		09/13/12		09/20/12		09/27/12		09/28/12		10/19/12
09.07		97 Analyze regulatory status of EV charging/discharging into grid	Sam		08/31/12		09/06/12		09/13/12		09/20/12		09/27/12		09/28/12		10/19/12
09.08		98 Review proposed legislation for EV "road tax" issues	Sam		08/31/12		09/06/12		09/13/12		09/20/12		09/27/12		09/28/12		10/19/12

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09.09		9 9 Analysis of EV impact using B&V modeling tools	Sam		08/31/12		09/06/12		09/13/12		09/20/12		09/27/12		09/28/12		10/19/12
09.10		9 10 Analysis of cost recovery allowed to utilities for EVSE	Sam		08/31/12		09/06/12		09/13/12		09/20/12		09/27/12		09/28/12		10/19/12
10.00	10 Develop Corridors		Troy		08/20/12	08/20/12	08/23/12	08/23/12	09/13/12	09/19/12	09/20/12		09/27/12		09/28/12		10/19/12
10.01		10 1 Identify corridors for recommending number and locations of future EVSE installations	Troy		08/20/12		08/23/12		09/06/12		09/13/12		09/20/12		09/21/12		10/19/12
10.02		10 2 Identify possible partners and owners of future EVSE	Troy		08/20/12		08/23/12		09/06/12		09/13/12		09/20/12		09/21/12		10/19/12
10.03		10 3 Identify needed signage	Troy		08/20/12		08/23/12		09/06/12		09/13/12		09/20/12		09/21/12		10/19/12
10.04		10 4 Identify barriers	Troy		08/20/12		08/23/12		09/06/12		09/13/12		09/20/12		09/21/12		10/19/12
10.05		10 5 Develop process for all steps needed to deploy EVSE whether public or private (ex: MindDrive, EcoHawks)	Troy		08/20/12		08/23/12		09/06/12		09/13/12		09/20/12		09/21/12		10/19/12
11.00	11 Emerging Technologies		Ramos		09/17/12		09/20/12		09/27/12		10/04/12		10/11/12		10/12/12		10/19/12
11.01		11 1 Solar - Photovoltaics	Ramos		09/17/12		09/20/12		09/27/12		10/04/12		10/11/12		10/12/12		10/19/12
11.02		11 2 Wind	Ramos		09/17/12		09/20/12		09/27/12		10/04/12		10/11/12		10/12/12		10/19/12
11.03		11 3 Wireless charging	Bill R		09/17/12		09/20/12		09/27/12		10/04/12		10/11/12		10/12/12		10/19/12
12.00	12 Other considerations		Team		09/28/12		10/04/12		10/11/12		10/15/12		10/17/12		10/17/12		10/19/12
12.01		12 1 Transit	Team		09/28/12		10/04/12		10/11/12		10/15/12		10/17/12		10/17/12		10/19/12
12.02		12 2 Education Programs for high school and higher ed	Team		09/28/12		10/04/12		10/11/12		10/15/12		10/17/12		10/17/12		10/19/12
12.03		12 3 Other afflications (Ex: Mid America EV)	Team		09/28/12		10/04/12		10/11/12		10/15/12		10/17/12		10/17/12		10/19/12
13.00	Appendices		Team		10/01/11		10/04/12		10/11/12		10/15/12		10/17/12		10/17/12		10/19/12
A.00	A	EV Readiness Index team	Team	done	10/01/12	03/15/12	04/01/12	03/15/12									10/19/12
B.00	B	Greater Kansas City Plug-in Readiness Strategy	Team	done	10/01/12	03/15/12	10/01/11	03/15/12									10/19/12

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C.00	C	Grant Proposal for Project Title: Kansas – Missouri Community Readiness for EV and EVSE	Team	done	04/08/11	10/01/11	10/01/11	10/01/11									10/19/12
D.00	D	Governmental Policy Team EVSE Permitting Recommendations	Alan		07/09/12	07/10/12	07/12/12		07/19/12		08/02/12		08/09/12		08/10/12		10/19/12
E.00	E	Utility Grid Model	Sam		08/31/12		09/06/12		09/13/12		09/20/12		09/27/12		09/28/12		10/19/12
F.00	F	Initial Web Site Map	Patterson	done	04/19/12	03/15/12	04/20/12	03/15/12									10/19/12
G.00	G	Automotive Technician Curriculum	Bob	done	07/23/12		07/26/12		08/02/12		08/16/12		08/23/12		08/24/12		10/19/12
H.00	H	EVTP promotion and checklist	Jim		07/23/12		07/26/12		08/02/12		08/16/12		08/23/12		08/24/12		10/19/12
I.00	I	Sample Auto Tech Training Checklist	Bob		07/23/12		07/26/12		08/02/12		08/16/12		08/23/12		08/24/12		10/19/12
J.00	J	Vehicle Dealership Brochure	Henry		09/20/12		09/20/12		09/27/12		10/04/12		10/11/12		10/12/12		10/19/12
K.00	K	EVSE recommended locations	Troy		08/20/12		08/23/12		09/06/12		09/13/12		09/20/12		09/21/12		10/19/12
L.00	L	Air Quality	Bill R		09/17/12	done	09/20/12		09/27/12		10/04/12		10/11/12		10/12/12		10/19/12
M.00	M	City and county presentation, hand outs and flyer	Ruth				07/26/12										
X.00	X	Bio of team members	Patterson		09/28/12		10/04/12		10/11/12		10/15/12		10/17/12		10/17/12		10/19/12
Y.00	Y	Glossary	Team	done	09/28/12		10/04/12		10/11/12		10/15/12		10/17/12		10/17/12		10/19/12
Z.00	Z	Bibliography	Team		09/28/12		10/04/12		10/11/12		10/15/12		10/17/12		10/17/12		10/19/12