

PUBLIC

Ameren Missouri Charge Ahead Quarterly Report – June 26, 2020 Electric Vehicle Charging – Corridors and Local Incentives Reporting data through June 15, 2020 ET-2018-0132

This report comprises the first quarterly report on the subject case and topics. The report includes this narrative document as well as an associated Excel spreadsheet file. Note that the due date for the first quarterly reports for each portion of Charge Ahead are as follows:

Corridors	30 days after the anniversary date of the tariff effective date, or June 26, 2020
Local	Within 90 days of the end of each program quarter. Given the program began on January 13, 2020, the due date is roughly the end of June.

Ameren Missouri has combined these reports since the subject matter is related and for ease of production and review by interested stakeholders. Some data provided for these reports is very current and extends past 2020Q1 and through **June 15, 2020**.

Corridor Charging Program

Ameren Missouri pursued a competitive bid "reverse auction" approach to procuring one or more vendors to work with Ameren Missouri business customers to set up the corridor charging per the approved program tariff. The pricing component requested how much incentive from Ameren Missouri would be needed to accomplish the proposed projects to set up the specified charging in designated communities throughout the Ameren Missouri territory. A total of 12 companies and/or partnerships were solicited and seven of those solicited responded. Of the seven responses, five provided sufficient information to score, and two proposals were high quality. In-person interviews were held with the two top proposals. After interviews, LilyPad EV was unanimously confirmed as the best choice for the Charge Ahead Corridors project. LilyPad EV, along with partners ChargePoint and Sachs Electric have been working with customers in the designated communities outlined in the case.

Ameren Missouri's assessment that incentives of up to \$360,000 per site may be necessary was relatively accurate. While the costs for each site will vary based on unique site conditions and line extension requirements, the rough average is about \$290,000 per site. LilyPad EV, in their bid, provided an estimate per site that was based on certain reasonable assumptions. As the design for each site is finalized with the business customer and the line extension costs are determined in detail, a final cost for each site is developed.

Each site has the same configuration of charging equipment. Two ChargePoint CPE-250s, each having the capability to provide up to 62.5kW of power and that paired can provide up to 125kW, and two CP-4001 Level 2 chargers providing 6.6kW each. Any modern EV can charge at these stations.

Education and Outreach

There have been no significant activities related to provide education and outreach at this time. However, plans are being developed to raise awareness of corridor chargers through traditional and social media.

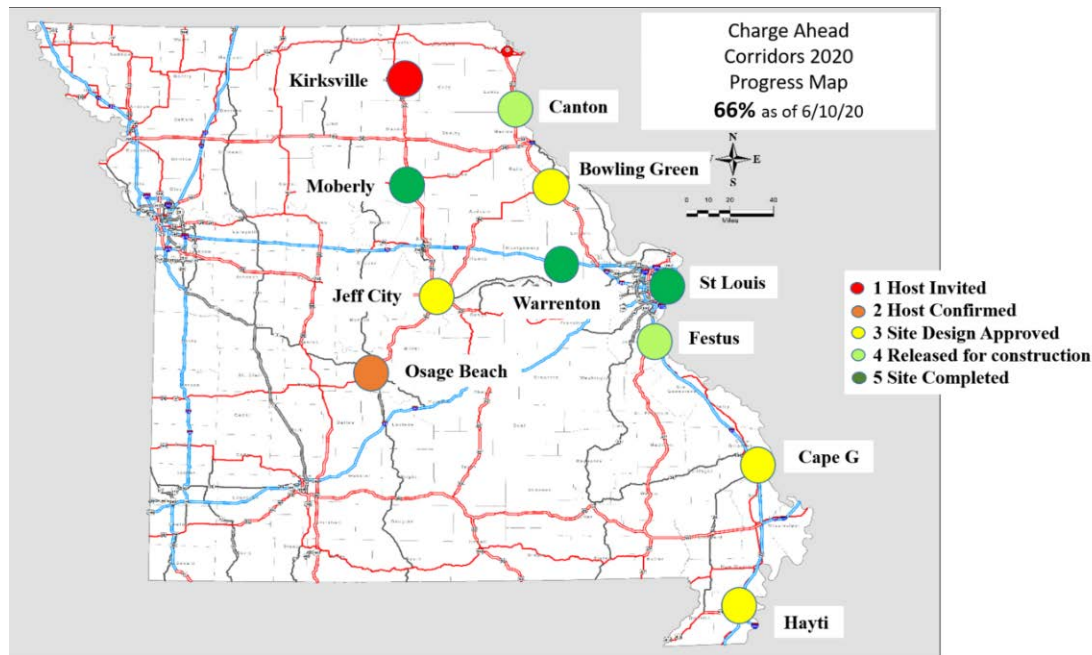
Costs

The following table contains basic project information, including site status and costs:

Charge Ahead Corridors – Sites Status and Costs Table

Location	Customer-Host	Status	Total Cost with Line Extension Breakout		Construction Allowance	Fueling Price to Driver (set by Customer-Host)	
Warrenton	Schnucks	Completed Dec 2019	\$**	**	\$**	**	L2 Free; DC \$.25/kWh
St. Louis	Lumiere Casino	*Completed Jun 2020	\$**	**	\$**	**	TBD
Moberly	Warrenton Oil	*Completed Jun 2020	\$**	**	\$**	**	TBD
Festus	Schnucks	Released for Constr.	\$**	**	\$**	**	TBD
Canton	Ayerco	Released for Constr.	\$**	**	\$**	**	TBD
Hayti	Crawford Oil	Site Design Approved	\$**	**	\$**	**	TBD
Cape Girardeau	Schnucks	Site Design Approved	\$**	**	\$**	**	TBD
Jefferson City	Mariott	Site Design Approved	\$**	**	\$**	**	TBD
Osage Beach	Dierberg's	Host Confirmed	**	**			TBD
Bowling Green	Ayerco	Site Design Approved	\$**	**	\$**	**	TBD
Kirksville	Ayerco	Host Invited	**	**			TBD
Total Costs			\$**	**	\$**	**	

**Not yet open to the public as of 6/15/2020*



The charts below show the energy and number of sessions by month for the Warrenton Schnucks charging island. More usage reporting will be developed for the additional sites in subsequent quarterly reports. This data is provided through the ChargePoint administrative portal.

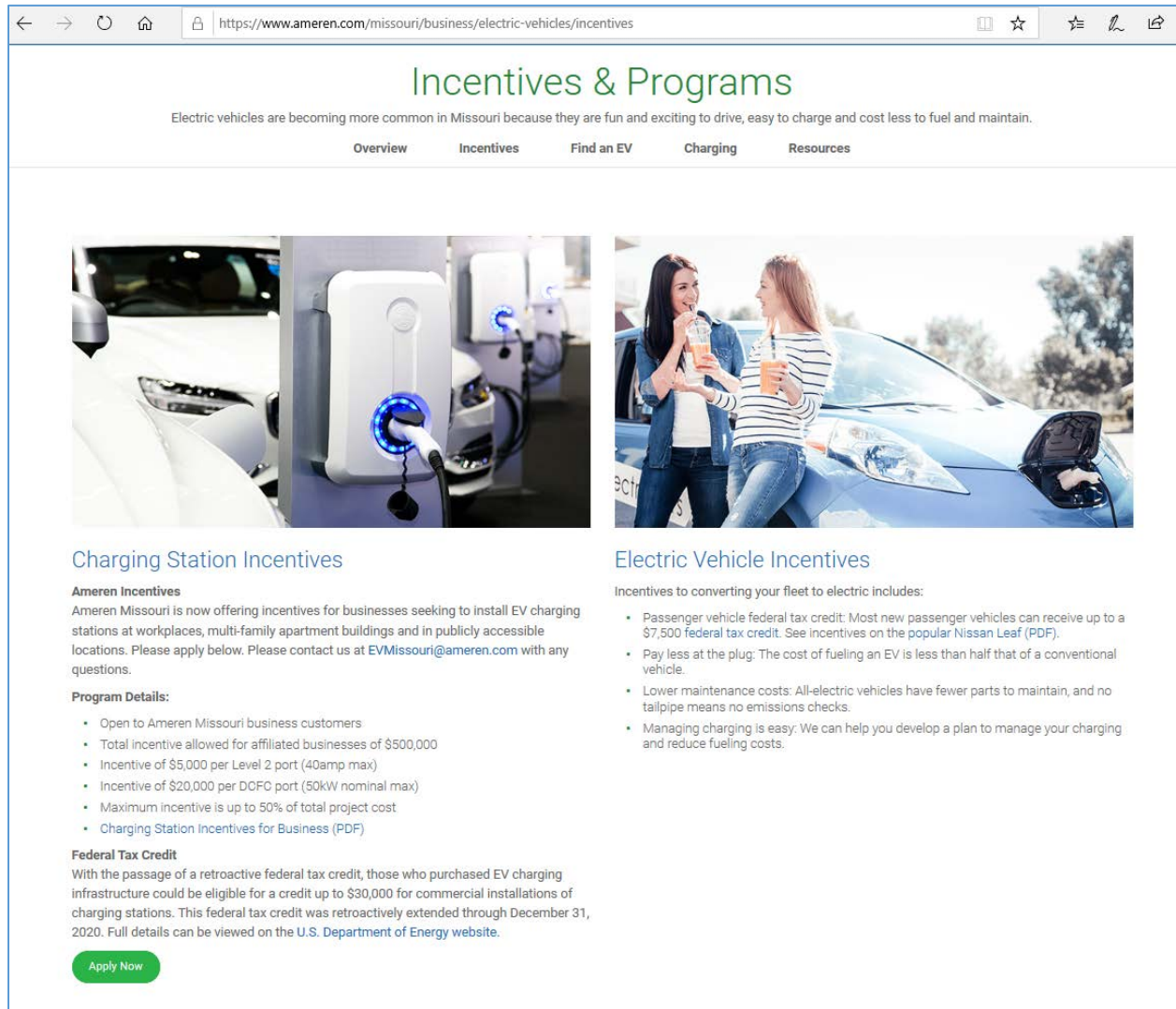
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****Table confidential
in its entirety.****

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Local Incentive Program

The Ameren Missouri Local Charging Station Incentives Program opened on January 13, 2020, and business customers can apply through the program application portal linked to the green "Apply Now" button on the Ameren Missouri EV business incentives Web page:




<https://www.ameren.com/missouri/business/electric-vehicles/incentives>

Incentives & Programs

Electric vehicles are becoming more common in Missouri because they are fun and exciting to drive, easy to charge and cost less to fuel and maintain.

[Overview](#) [Incentives](#) [Find an EV](#) [Charging](#) [Resources](#)



Charging Station Incentives


Ameren Incentives
Ameren Missouri is now offering incentives for businesses seeking to install EV charging stations at workplaces, multi-family apartment buildings and in publicly accessible locations. Please apply below. Please contact us at EVMissouri@ameren.com with any questions.

Program Details:

- Open to Ameren Missouri business customers
- Total incentive allowed for affiliated businesses of \$500,000
- Incentive of \$5,000 per Level 2 port (40amp max)
- Incentive of \$20,000 per DCFC port (50kW nominal max)
- Maximum incentive is up to 50% of total project cost
- [Charging Station Incentives for Business \(PDF\)](#)

Federal Tax Credit
With the passage of a retroactive federal tax credit, those who purchased EV charging infrastructure could be eligible for a credit up to \$30,000 for commercial installations of charging stations. This federal tax credit was retroactively extended through December 31, 2020. Full details can be viewed on the [U.S. Department of Energy website](#).

[Apply Now](#)



Electric Vehicle Incentives

Incentives to converting your fleet to electric includes:

- Passenger vehicle federal tax credit: Most new passenger vehicles can receive up to a \$7,500 federal tax credit. See [incentives on the popular Nissan Leaf \(PDF\)](#).
- Pay less at the plug: The cost of fueling an EV is less than half that of a conventional vehicle.
- Lower maintenance costs: All-electric vehicles have fewer parts to maintain, and no tailpipe means no emissions checks.
- Managing charging is easy: We can help you develop a plan to manage your charging and reduce fueling costs.

To apply, customers should already have a project well-defined and be able to provide the following information, as shown on the application portal link:

Thank you for your interest in this program.

To complete the application process, you will need to enter details regarding the following items:

Your Contact and Business Information

- Business Name
- Address, Phone/Email
- Ameren Missouri Electric account number
- Contact Name
- Contact Address/Phone/Email
- W9
- Payment preference (check or bill credit). Download the [Payment Release Authorization Form](#) if re-assigning incentive payment to the installer.

Contractor Information (if not self-install)

- Contractor Name
- Contractor Address
- Contact Name
- Contact Address/Phone/Email

Project Information

- Number of ports and charging rate of each
- Equipment Make
- Equipment Model
- Site Plan including electrical diagram and pictures
- Electrical supply details-panel has sufficient capacity/is capacity review needed/additional service on site requested

Estimated Costs

- Equipment (charger, pedestals, cord management etc.)
- Labor
- Site Preparation (trenching/boring, conduit/wiring, concrete/asphalt)
- Battery Storage

Are you ready to begin your application?

Begin Application

Administrative Costs

The administrative costs associated with the Local Incentives program includes development of the application portal and workflow management system developed by Applied Energy Group (AEG). The cost to-date for this work is approximately \$50,000 through 5/15/20.

Education and Outreach Activities

There have not been significant education and outreach activities to drive the Local Incentives program as of yet, but plans are being developed to provide more outreach. Activities underway and being planned or considered include:

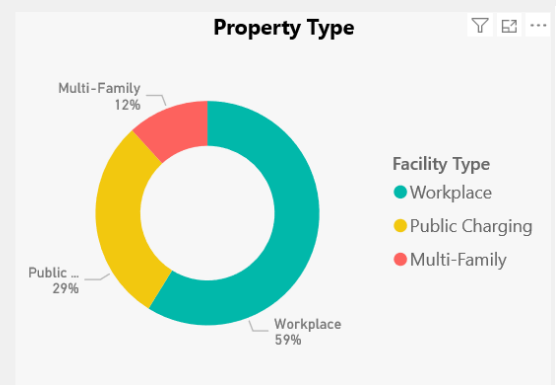
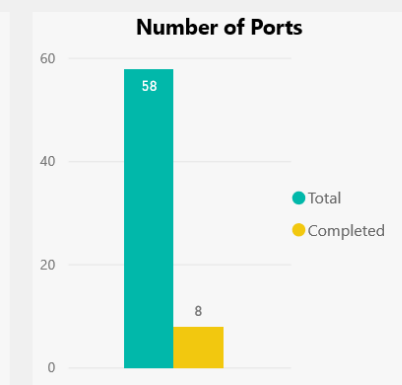
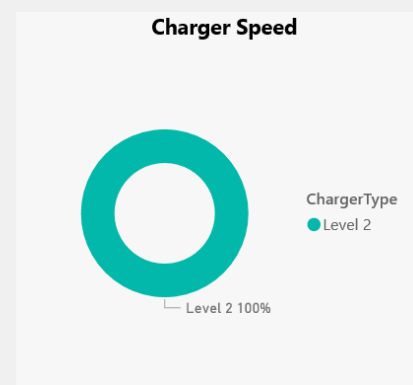
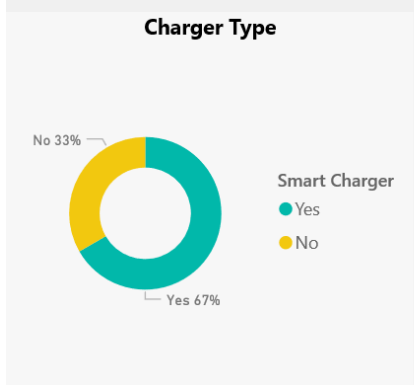
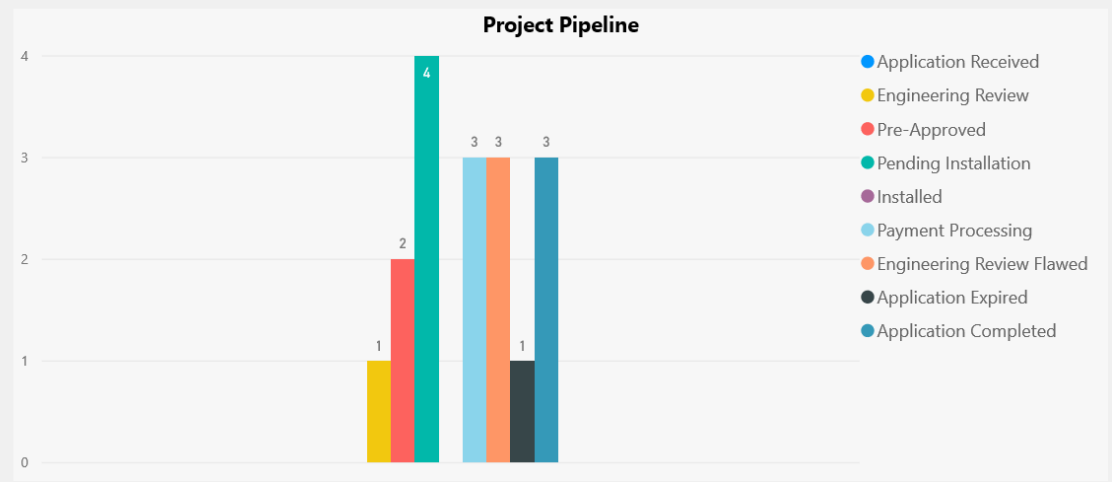
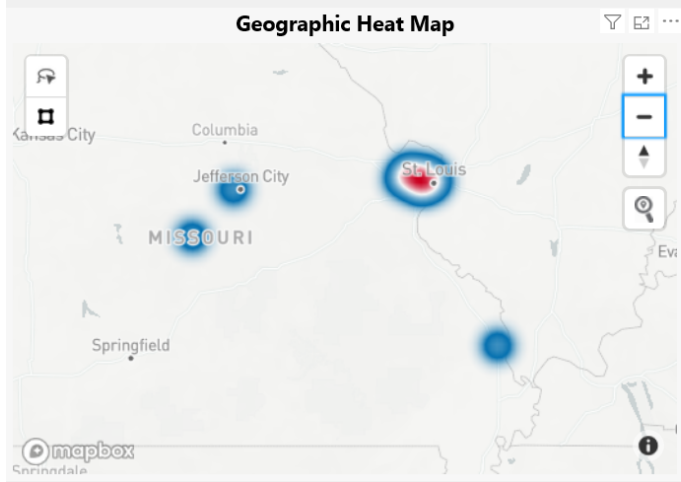
- Electric Vehicle Partners (EVP) Network – these are trade allies for EV support
- Outreach to municipalities, business and professional associations
- Outreach through Key Account and Regional Account executives
- Direct marketing to large and mid-size business customers
- Traditional media (TV and newspaper) and social media (Twitter, Facebook, etc.)

Charge Ahead – Local Incentives Dashboard Statistics – Snapshot 6-15-2020

Remaining Incentive Budget

Data refreshed (EST): 06/15/2020 14:35:15

\$1,000,000 Multifamily	\$3,000,000 Public Charging	\$1,986,103 Workplace	\$5,986,103 Total
17 Applications Received	6 Projects Completed	\$21,868 Incentives Committed	\$13,937 Incentives Paid



Ameren Missouri Revenues

Revenues related to EV charging can be categorized as "Direct" or "Indirect." Direct EV revenues are those that arise from incremental electricity sold by the Company which flowed through chargers that were incented by the program. Indirect revenues are those for revenues estimated to arise from all EVs in the service territory, which may be served in part through chargers that exist due to the program. They revenues are estimated based on vehicle registrations and various assumptions about their charging behaviors.

Direct Revenues from Corridors

The single Corridors program site that has some meter history is the Warrenton Schnucks site. The direct revenue data for this site, which became operational during the last week of December, 2019, is shown below.

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Table confidential in its entirety

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Direct Revenues from Local Charging Stations *(see workbook for calculations)*

Through June 15, 2020, there have been no Local Incentives program projects with a dedicated meter. Based on the eight installed chargers (at 5 locations) at current date, Ameren Missouri estimates a total annual direct load/revenue of \$4,188 to \$4,313. Ameren estimates a total annual direct kWh of approximately 58,987 kWh. Please refer to included work papers for information by location. Please note that the variability relates to an estimate of billing demand. The high end of the range assumes that, for all customers on rates which include a demand charge, the charging demand coincided with customer billing demand in all months. The low end of the range assumes that the charging demand never coincided with the customer billing demand in any month.

Indirect Revenues *(see workbook for calculations)*

Ameren Missouri receives a snapshot of Missouri registrations from IHS MarkIT on a quarterly basis, approximately seven weeks after the end of the calendar quarter. This report includes baseline and current data through **March 2020** that reflects numbers for Ameren Missouri territory. See Power BI visual depiction shown at end of this report.

An attachment to this report is the Excel spreadsheet, "Ameren MO EV Data 6-26-20," which contains the EV counts by county and type of EV. Note these counts have been proportioned for the percentage of households served by Ameren Missouri in each county.

Ameren Missouri estimates indirect load of 23,820,160 kWh and indirect revenue in a range of \$1,845,081 to \$1,964,770. The variability in revenue range relates to a variable estimate of where charging is occurring (Multifamily, Workplace, or Public).

EV Data as Power BI Visuals

5,824
AMO EV Total

Year	Quarter	Ameren EV Total	Quarterly Change
2020	Qtr 1	5,824	357
2019	Qtr 4	5,467	247
2019	Qtr 3	5,220	515
2019	Qtr 2	4,705	341
2019	Qtr 1	4,364	323
2018	Qtr 4	4,040	538
2018	Qtr 3	3,503	325
2018	Qtr 2	3,178	261
2018	Qtr 1	2,917	247

