Austin Energy's EV360-A Residential Subscription Rate Pilot Plan for EV Charging

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Presentation Roadmap (21 slides)

Austin Energy EV programs overview

EV360 discussion & outcomes

EV360 customer profiles and program recommendations





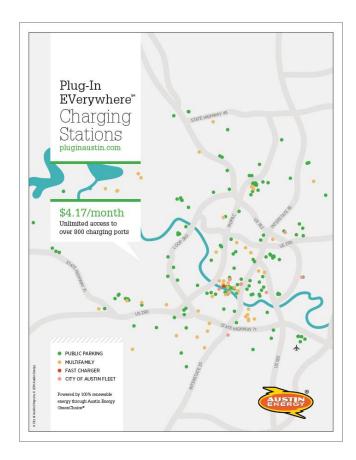
















Austin Energy EV Programs

- EV360 Pilot- A Residential Subscription Rate for EV Charging
 - Flat rate of \$30/month for home and public charging
- Plug-In EVerywhere[™] Driver Program
 - Unlimited access to network of 800+ port network
 - \$4.17 for all
- Plug-In EVerywhere™ EVSE Rebate Program
 - Up to \$1,200 rebate for home Level-2 charging stations
 - Up to \$4,000 rebate for commercial Level-2 charging stations
 - Up to \$10,000 rebate for public DC Fast charging stations

Fleet and make ready pilots coming soon



GreenChoice®

- **E-Ride Program** Up to \$400 rebate from the purchase of electric bikes, scooters & fleets
- EVs are for EVeryone a new program for our low to moderate income customers
- EVs for Schools -EV charging stations for staff, students, parents, and visitors Curriculum included







EV360 Program Elements

separate sub-meter

pilot program



\$150 enrollment fee access to public chargers

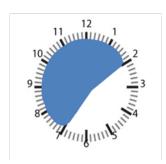
eligibility requirements

100%
renewable
energy via
GreenChoice®





EV360 Details 7:00pm



2:00pm

unlimited off-peak charging at home

- off-peak hours are from 7:00 pm 2:00 pm on weekdays
- anytime on weekends
- anytime on public chargers

Energy usage is measured by a sub-meter installed at your home

- separates EV charging from other home electrical consumption
- a residential sub-meter circuit installed in advance, connected to a charging station

Flat rate may be as low as \$30/month*

- *\$30 per month applies for EV drivers requiring a demand of < 10kw.
- demand of 10kw or more, \$50 per month.
- potential costs saving

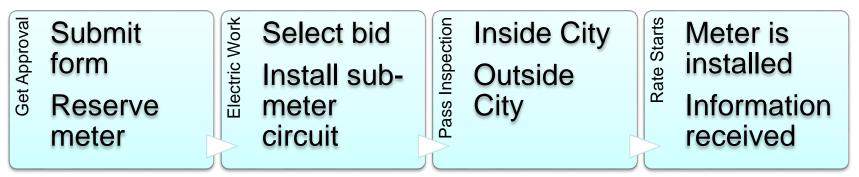




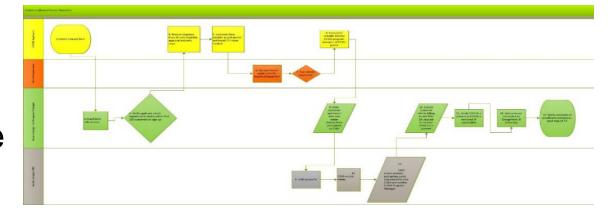


Making it Happen.....How?

Customer Journey



- Utility
 - EV Team
 - Meter Office
 - Billing



Installers & Inspectors









https://austinenergy.com/ae/green-power/plug-in-austin/charging-station-installer/information-for-installers

Empowering the Installers and Preparing Inspectors

Information for Installers

Local Area Experts Can Help You Charge Forth

Looking for a Charging Station Installer?

We work with charging station installers to ensure plug-in electric vehicle drivers have access to charging stations. Austin Energy can offer expertise, information, tools, and services to ensure a positive experience from beginning to end.

Find an experienced Plug-In Austin charging station installer.

Are You a Charging Station Installer?

If you are a licensed electrician who installs EV charging stations, you will need these documents and helpful links.

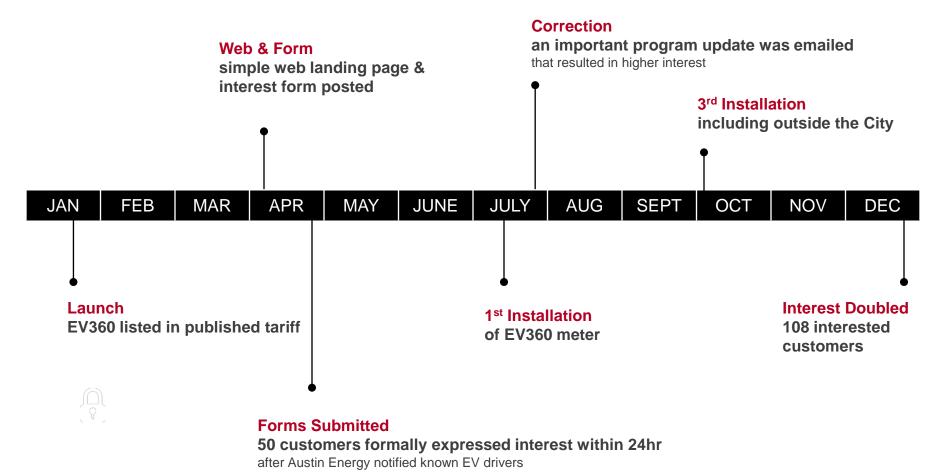
- EV360 Installer Overview (pdf)
- Installer Checklist (pdf)
- EV Meter Wiring diagram (pdf)
- Austin Energy Electric Design Criteria (pdf)
- Austin Energy Interconnection Guide (pdf)

Email Plug-In Austin to reserve a meter and request a jumper plate.





1ST Year Milestones, 2016







EV360 by the Numbers

100

493

Meter Cap

Interested

participation is limited, EV360 is a pilot program

submitted EV360 interest forms

1.25%

99%

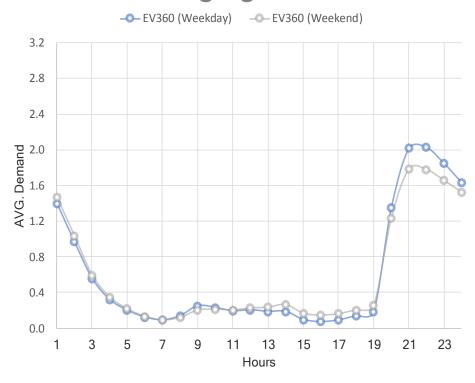
Participation

Do not charge

of known EV Drivers are on EV360

on peak between 2-7PM

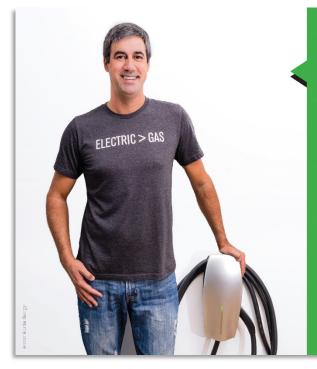
Charging Times

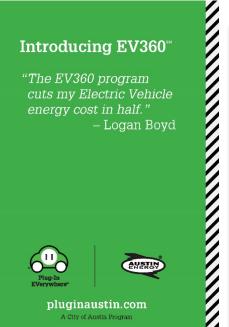












Introducing Austin Energy's EV360, a program designed to encourage off-peak charging and savings on energy costs. Enjoy UNLIMITED electric vehicle charging at home from 7pm - 2pm, or anytime on-the-go for as low as \$30 per month. Participation is limited to the first 100 Austin Energy customers. Learn more and sign up at pluginaustin.com

Primary benefits

\$30

100%

Correctly set price

Unsubsidized

EV360 customers receive a fixed monthly subscription charge that provides them the peace of mind to know what it will cost them to fuel their car, regardless how much they drive.







Questions? There's more......

Customer Data Driven Marketing

Program Recommendations









EV360 Marketing

Mail

- 2016 & 2017
- Known EV drivers
- Installer Packets

Email

- 3 in 2018
- Targeted EV drivers
- Mixed & dedicated messaging

Web

- Initial EV360 & 2017 revamp
- Installers pager
- Testimonial



StEVie at an outreach event

"With all the things to worry about managing my family's budget, the affordable fixed cost of the EV360 program makes my job that much easier."







EV360 Customer Profiles



LifeMode Group: Affluent Estates

Boomburbs



Households: 2,004,400

Average Household Size: 3.25

Median Age: 34.0

Median Household Income: \$113,400



le Group: Affluent Estates

→ Tier



Households: 1,748,600

Average Household Size: 2.06

Median Age: 37.4

Median Household Income: \$59,200

LifeMode Group: Middle Ground

Emerald City

olds: 2,113,000

Household Size: 2.84

Age: 47.3

Household Income: \$173,200

WHO ARE WE?

Emerald City's denizens live in lower-density neighborhoods of urban areas throughout the country. Young and mobile, they are more likely to rent. Well educated and well employed, half have a college degree and a professional occupation. Incomes close to the US median come primarily from wages, investments, and self-employment. This group is highly connected, using the Internet for entertainment and making environmentally friendly purchases. Long hours on the Internet are balanced with time at the gym. Many embrace the "foodie" culture and enjoy cooking adventurous meals using local and organic foods. Music and art are major sources of enjoyment. They travel frequently, both abroad and domestically.

OUR NEIGHBORHOOD

- There are mostly older, established neighborhoods with homes built before 1960; around 30% built before 1940.
- Just over half of all homes are renter occupied.
- Single-person and nonfamily types make up over half of all households.
- Median home value and average rent are slightly above the US levels; around half of owned homes are worth \$150,000-\$300,000.

SOCIOECONOMIC TRAITS

- Well educated, these consumers research products carefully before making purchases.
- They buy natural, green, and environmentally friendly products.
- Very conscious of nutrition, they regularly buy and eat organic foods.
- Cell phones and text messaging are a huge part of everyday life.
- They place importance on learning new things to keep life fresh and variable.

Note: The Index represents the ratio of the segment rate to the US rate multiplied by 100.

 They are interested in the fine arts and especially enjoy listening to music.

DUR NEIGHBORHOOD

- Married couples without children or married couples with older children dominate this market.
- Housing units are owner occupied with the highest home values—and above average use of mortgages.
- Neighborhoods are older and located in the suburban periphery of the largest metropolitan areas, especially along the coasts.

SOCIOECONOMIC TRAITS

- Top Tier is a highly educated, successful consumer market: more than one in three residents has a postgraduate degree.
- Annually, they earn more than three times the US median household income, primarily from wages and salary, but also self-employment income (Index 177) and investments (Index 251).
- These are the nation's wealthiest consumers. They hire financial advisers to manage their diverse investment portfolios but stay abreast of current financial trends and products.
- Socially responsible consumers who aim for a balanced lifestyle, they are goal oriented and hardworking but make time for their kids or grandkids and maintain a close-knit group of friends.
- These busy consumers seek variety in life. They take an interest in the fine arts; read to expand their knowledge; and consider the Internet, radio, and newspapers as key media sources.
- They regularly cook their meals at home, attentive to good nutrition and fresh organic foods.

Note: The Index represents the ratio of the segment rate to the US rate multiplied by 10 Consumer preferences are estimated from data by GRK MRI.

TAPESTRY SEGMENTATION esri.com/tapestry

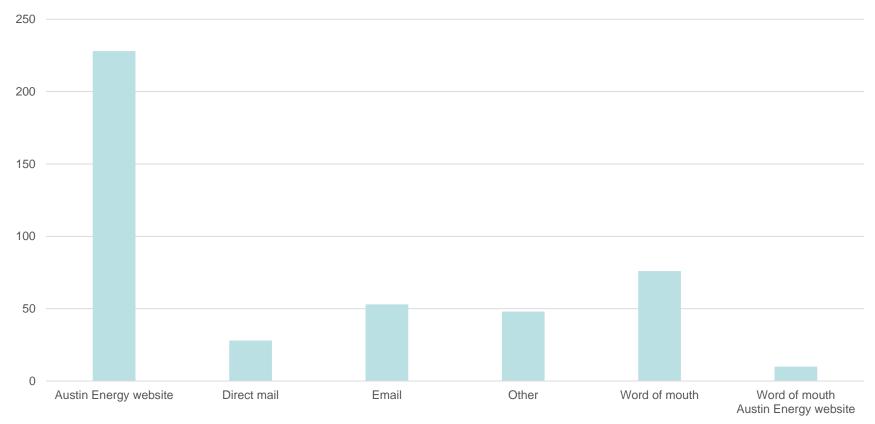






EV360 Customer Information

How did customers hear about the rate?

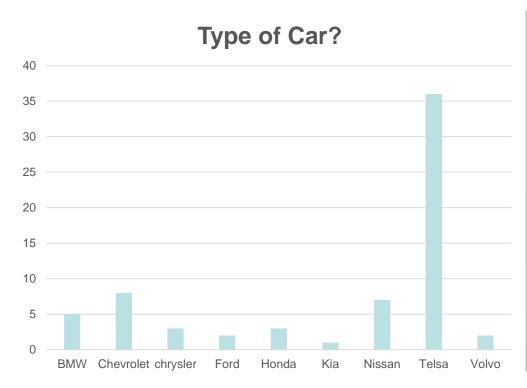


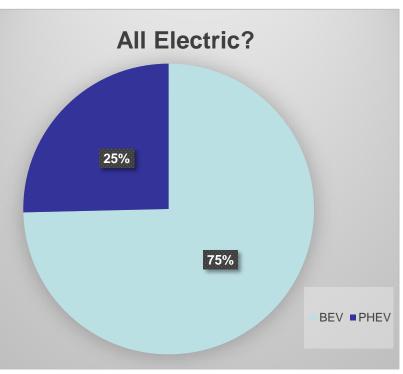






What are they driving?









Recommendations to EV Program Managers

Staff **Dedicated** Adaptability Engagement Champion staff







Improvements to EV360

Permits

- Develop specific permit
- Enable workflows & create data

Installers

- Strengthen & define group
- In person meetings

Rate

- Additional demand price
- Widen eligibility requirements

DEVELOPMENT REVIEW, PERMITTING and INSPECTION Software Application System is commonly referred to as 'AMANDA' (Application Management and Data Automation)

With this software application, the public can research development information, apply for permits, schedule inspections, and track information, all from the internet. The URL for the site is www.austintexas.gov/devreview/a_queryfolder_permits.jsp. Clicking on this link or typing the address into an internet browser will bring up the screen below:

PUBLIC INFORMATION	SEARCH BY PERMIT NUMBER
Public Search	Permit Number: Submit
Issued Permit Report	Permit numbers should be in '2004-023481 BP' format. Please enter at least 8 characters like '2004-023' for partial search criterion.
REGISTERED USERS	SEARCH BY CASE NUMBER OR OLD PIER PERMIT NUMBER
New Registration	Case Number: Submit
Update Registration	Case numbers should be in 'CB-2004-0001' format. (Note: Many old PIER permit numbers can be used in this search. Use the same format as your PIER permit.) Click for fielo on search formats.
Permit Assign and Pay	SEARCH BY PROPERTY/PROJECT NAME/TYPE S/DATE RANGE
My Permits/Cases	Number Prefix Street Dir Suite# Zip
My Licenses	Please enter at least the first 3 letters of the street name above. Other fields above are optional.
Request / Cancel / View Inspections	Project Name:
My Escrow Accounts	Permt/Case Type: Sub Type:
Reports	Work Type:
Login	Start Date: Sep 6, 2012 Sep 6, 2013 Sep 6, 2013
HELP	Note: Dates should be in form 'Nov 17, 2012' format. By default, the database search is limited to the past 385 days. Due to the size of the database, the date range should be no longer than one year unless at least one additional search criterion is set: Street, Zip Code, Project Name, or Permit/Case Yipe. The date range does not apply to searches by Permit Number or Sea Number.
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What's next?

Pilot Results

> Rate analysis

Survey

White Paper

Demand Response

Pilot launch

Meter vs. EVSE

Comparison

EV360 Program

Support pilot meters

Sustainable operations

More inclusive





Quiz!

- When should you NOT charge your car with EV360?
- Why is it called EV360?
- Who is StEVie?







Contact Us

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Web



pluginaustin.com





Supplemental Slides







Managed Charging

- Need
- Landscape
- Austin Energy's Managed Charging:
 - Plug-In EVerywhere Network
 - Tiered Home EVSE Rebate & Demand Response
 - EV360

Sources: SEPA's A Comprehensive Guide to Electric Vehicle Charging; ESource







Electric Drive

















- Plug-In EVerywhere rate
- Climate / Clean Air "Community Net Zero"
- Shared, Autonomous, & Electric Mobility Plan
- City EV Fleet Leadership
- Action Plan to meet carbon neutrality goal



Community and Utility Goals:

- Supports DER storage goals
- Grid reliability
- Positive community feedback
- Economic impact
- New revenue stream for the utility/city





StEVie

• https://austinenergy.com/ae/green-power/plug-in-austin/ev-video









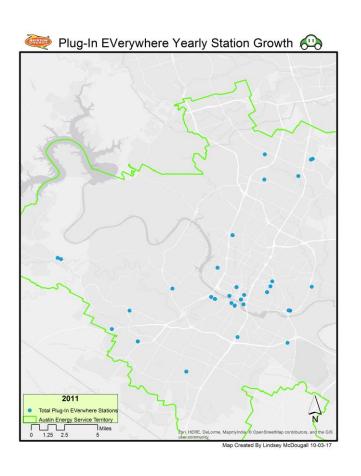
#EVsAreBetter

- seriously fast and fun
- traditional car selling technique
- local



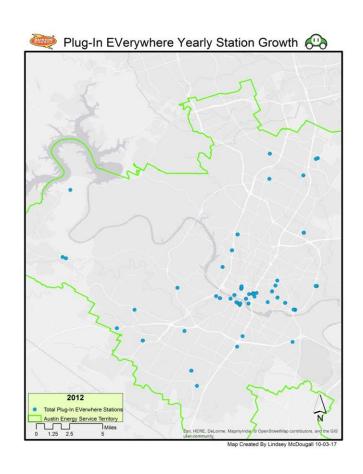






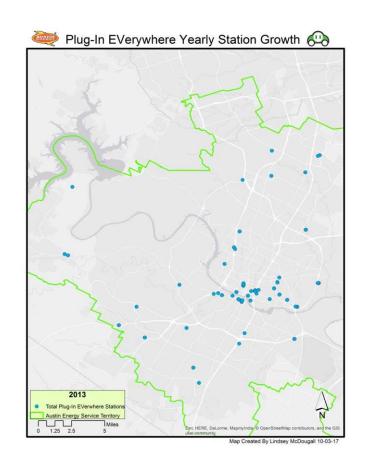






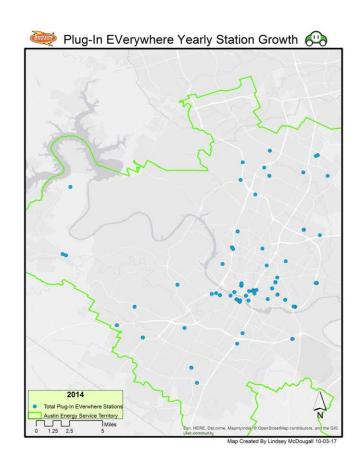






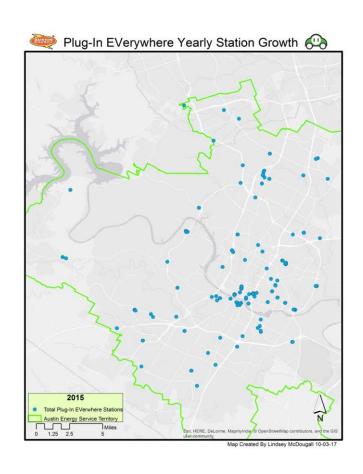






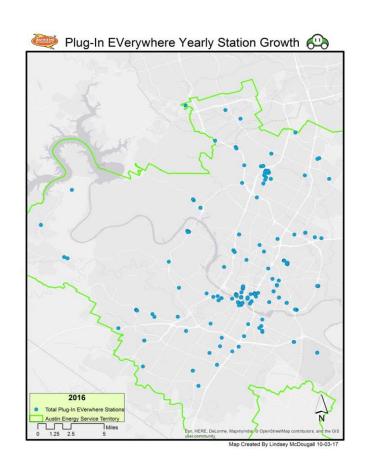






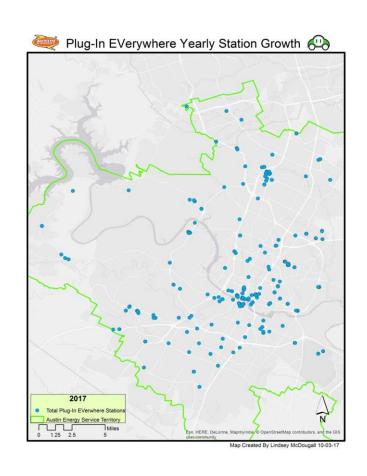






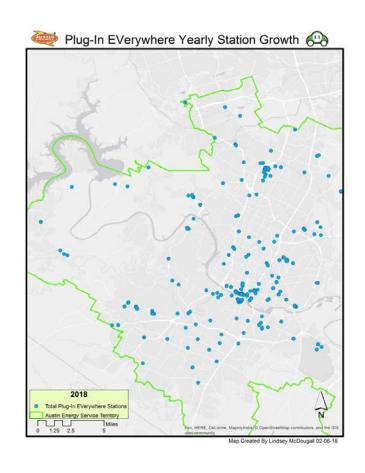








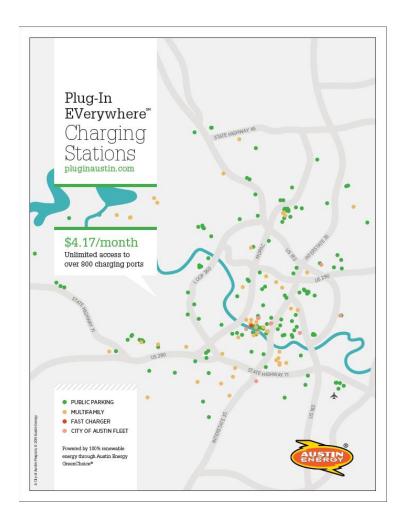








2019 Map

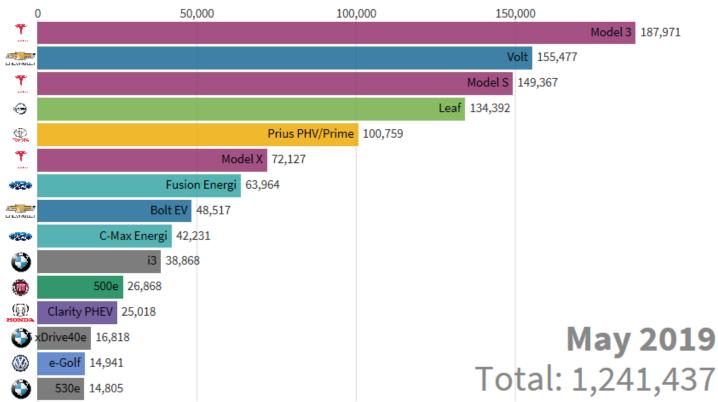






Visualizing U.S. EV Sales

https://www.visualcapitalist.com/animation-u-s-electric-vehicle-sales-2010-19/



Source: •*Some values are estimates. Please visit InsideEvs for details. Dec 2010 - Dec 2011 include estimates interpolated from Wikipedia. Prior to Dec 2010 includes 1,379 Tesla Roadsters as a baseline starting point.



