



GRID Alternatives: Charging and Fueling Infrastructure Discretionary Grant Program Workshop

April 2023

Rachael Aptowitz, Clean Mobility Strategist



The nation's largest nonprofit clean energy installer

GRID Alternatives envisions a rapid, equitable transition to a world powered by renewable energy that benefits **everyone**.

For over 20 years, GRID has implemented community-first projects delivering clean energy solutions exclusively for low-income households, including solar power, clean mobility, and energy storage.

GRID Alternatives' approach to equitable clean mobility



Prioritize capacity building and wealth building opportunities: community-powered solutions



Maximize savings from transitioning off of fossil fuels: using clean, cheap solar energy to charge



Move people, not cars: mobility justice means clean public transit, e-bikes, and more

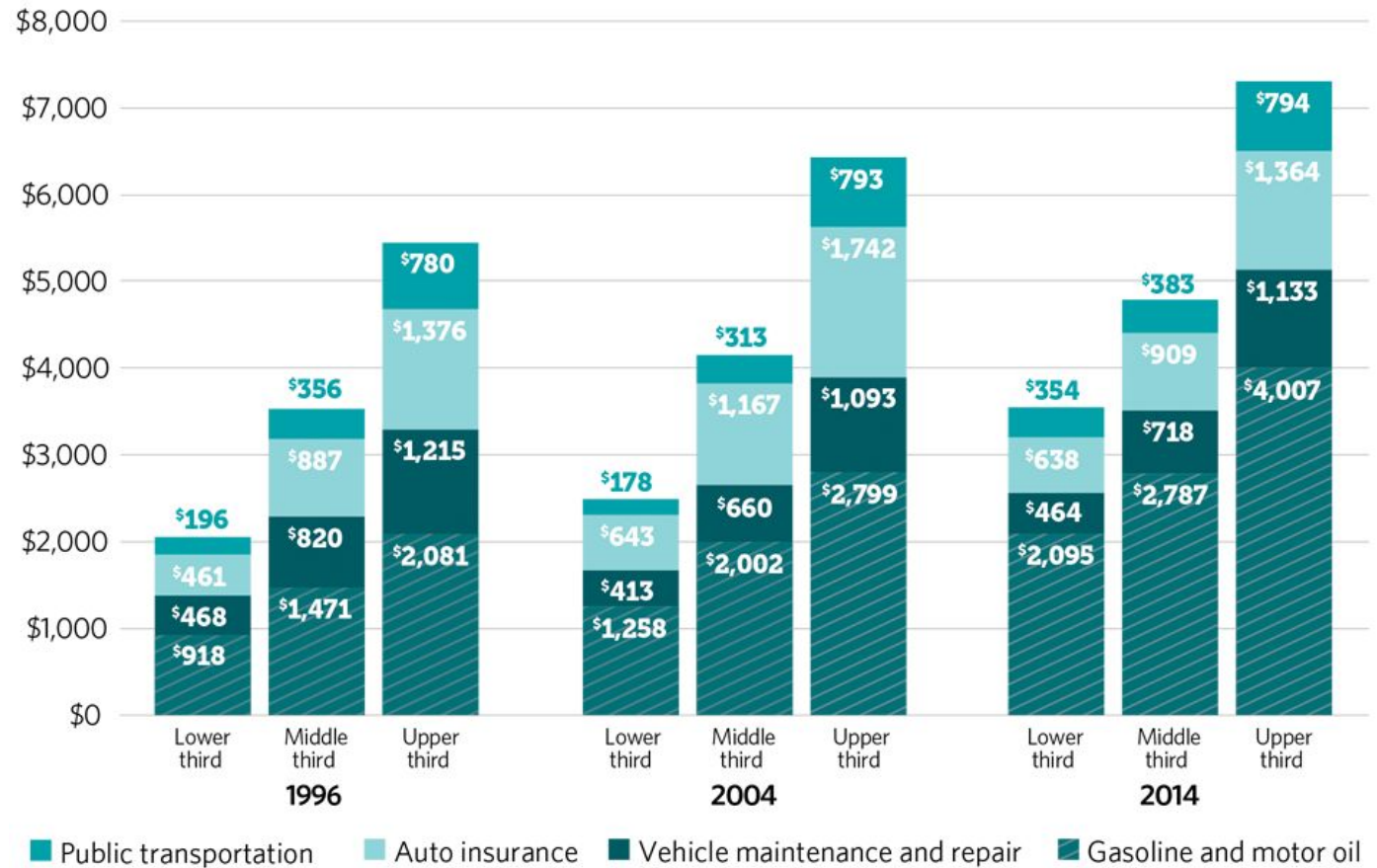
Impact Opportunity for EV Equity

According to an analysis of US Census data, low-income communities across the US spend \$100 billion annually on gasoline.

Figure 8

Households at the Bottom Spent More on Gas in 2014 Than on All Transportation 19 Years Earlier

Subcategory spending by income thirds, 1996, 2004, and 2014

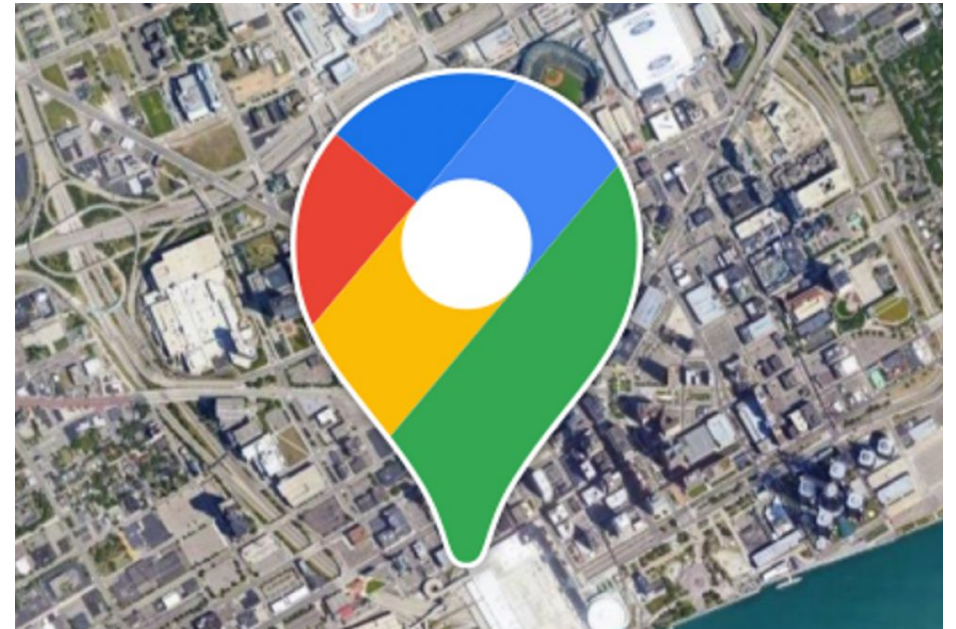
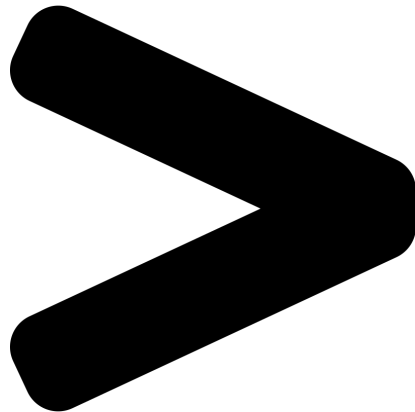


Notes: Data are adjusted for inflation using the Bureau of Economic Analysis' Personal Consumption Expenditure Price Index; population is limited to households in which the respondent or spouse is between the ages of 20 and 60. This figure uses weighted population means instead of medians because the median values of all expenditures except gasoline and motor oil equaled zero for both the middle- and lower-income households.

Sources: Pew's analysis of Bureau of Labor Statistics Consumer Expenditure Survey Public-Use Microdata, 1996-2014

Equitable transportation electrification prioritizes people over places

By focusing on the ways people actually use transportation, and prioritizing community needs, we can build a clean transportation future for everyone.



Let's not repeat the mistakes of the past!



Prioritizing Charging \$ in EJ geographies ≠ Equity Benefits



Kevin Hachey
Program Manager, Forth



Charging and Fueling Infrastructure
Discretionary Grant Program

April 2023





Forth's mission is to electrify transportation by bringing people together to create solutions that reduce pollution and barriers to access.

CFI Program Overview

- \$2.5B total over next 3 years
- \$700M in 2023
- \$350M this year for corridors
- \$350M this year for community charging

- Individual grants maximum of \$15M

- Eligible applicants are governments (state, local, MPO, tribes, special districts, authorities, or agencies)

- Required 20% match

Applications are due May 30th by 11:59 PM (EST)
through www.grants.gov under the Notice of Funding
Opportunity Number: 693JJ323NF00004



Community Grant Details

Federal priorities:

- Rural areas
- Low-and moderate-income neighborhoods
- Communities with low ratios of private parking spaces
- Communities with high ratios of multi-family housing

Overall: 40% of benefits to disadvantaged communities

Consideration given to projects that may:

- Meet current or anticipated market demands
- Include appropriate mix of charging speeds



Eligible Expenses

- Development phase activities, including planning, feasibility analysis, revenue forecasting, environmental review, preliminary engineering and design work, and other preconstruction activities
- Acquisition of real property and related construction costs
- Installation of traffic control devices
- Contracting with a private entity for operations and maintenance costs of infrastructure
- Projects that are expected to expand or fill gaps in access to publicly accessible charging and alternative fueling infrastructure
- Projects that may conduct educational and community engagement activities to develop and implement education programs through partnerships with schools, community organizations, and vehicle dealerships to support the use of zero-emission vehicles and associated infrastructure (5%)
- “Meaningful public engagement” (no limit on %)



General Advice

Center People, Not Technology

Provide Community Benefits

Build Broad Partnerships



Concept: Multifamily Mobility

- Most charging happens at home, but over 20% of drivers live in MFH
- Complex situations require proactive technical assistance and support
- Charging alone can fuel gentrification and displacement concerns
- Charging plus mobility: shared electric cars, e-bike lending libraries
- Requires match for electric cars and programs
- More: <https://forthmobility.org/community-carsharing>



Concept: Urban Charging

- Urban hubs of DC fast chargers serve diverse range of otherwise underserved drivers
- Benefit MFH residents and gig drivers (Uber, Lyft, etc.) who need multiple fast charges a day
- Large majority of gig drivers are low-moderate income
- Supplement with level 2 charging in right of way (on light poles, power poles, etc.) to meet community needs



Get Involved

- Begin exploring concepts and building partnerships
- Let us know how Forth can help:
<https://forthmobility.org/Federal-Charging-Support>
- Roadmap Conference May 15-17, 2023
www.roadmapforth.com
- Workshop May 15: Win Federal Funding for Electric Mobility in Your Community
<https://forthmobility.org/events/win-federal-funding-for-electric-mobility-in-your-community>



Resources

- NOFO - <https://www.grants.gov/web/grants/view-opportunity.html?oppld=346798>
- Joint Office - <https://driveelectric.gov/>
- [CFI Program Webinar](#) from the DOT Federal Highway Administration - Passcode: i#l2b6UV
- Tools for Applicants
 - Alternative Fuel Life-Cycle Environmental and Economic Transportation (AFLEET) CFI Emissions Tool (Argonne National Lab)
<https://afleet.es.anl.gov/infrastructure-emissions/>
 - DOT Transportation Disadvantaged Census Tracts Tool
<https://usdot.maps.arcgis.com/apps/dashboards/d6f90dfcc8b44525b04c7ce748a3674a>
 - EV Charging Justice40 Map (Argonne National Laboratory)
<https://www.anl.gov/esia/electric-vehicle-charging-equity-considerations>

THANK YOU

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