Grant Program Title: Fiscal Year 2024 Vehicle Technologies Office (VTO) Technology Integration (TI) Funding Opportunity Announcement

Funding Agency: Office of Energy Efficiency and Renewable Energy (EERE)

Award Amount: $15,000,000
- Minimum $500,000
- Maximum $2,500,000

Area Interest 1: $1,000,000

Area Interest 3: $500,000 - $1,000,000

Brief Description:
Building a clean and equitable energy economy and addressing the climate crisis is a top priority of the Biden Administration. This FOA will advance the Biden Administration’s goals to achieve carbon pollution-free electricity by 2035 and to “deliver an equitable, clean energy future, and put the United States on a path to achieve net-zero emissions, economy-wide, by no later than 2050”1 to the benefit of all Americans.

Eligible Topic of Interests:
1. Clean Cities Outreach, Engagement, and Technical Assistance (Area Interest 1)
2. Clean Transportation Demonstration and Deployment (Area Interest 3)

Area Interest 1: Clean Cities Outreach, Engagement, and Technical Assistance
In partnership with DOE, Clean Cities coalitions work locally in urban, suburban, and rural communities to advance the affordable, convenient, and energy efficient movement of people and goods. The Clean Cities mission is to advance the nation’s environment, energy security and economic prosperity through collaboration with communities by building partnerships with public and private stakeholders that create equitable deployment of clean transportation solutions for all. The Clean Cities vision is a decarbonized transportation future for all communities. Clean Cities coalitions pursue this mission and vision through the following goals:

• **Goal 1.** Develop and maintain relationships with stakeholders to accelerate transportation decarbonization through outreach and engagement activities.
• **Goal 2.** Provide stakeholders targeted technical assistance and training leveraging DOE resources to advance transportation decarbonization; and
• **Goal 3.** Facilitate transportation decarbonization through vehicle and infrastructure planning, barrier reduction, and deployment.

Requirements
Project approach must include coalition outreach, engagement, and technical assistance with stakeholders in at least one of the following priority focus areas:

1. Medium- and heavy-duty vehicle fleet stakeholders.
2. non-road transportation stakeholders in the off-road, rail, marine, aviation, and port sectors.
3. Underserved communities pertaining to local transportation and energy priorities rooted in pillars of energy and environmental justice (EEJ).
4. Tribal communities pertaining to tribal transportation and energy priorities rooted in best practices for Tribal collaboration.
5. Electric utilities and utility regulators to advance transportation electrification; or

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CSU Campuses
- Bakersfield
- Channel Islands
- Chico
- Dominguez Hills
- East Bay
- Fresno
- Fullerton
- Humboldt
- Long Beach
- Los Angeles
- Maritime Academy
- Monterey Bay
- Northridge
- Pomona
- Sacramento
- San Bernardino
- San Diego
- San Francisco
- San José
- San Luis Obispo
- San Marcos
- Sonoma
- Stanislaus
6. Authorities having jurisdiction (AHJ) to develop plans leading to infrastructure deployment and address barriers to transportation electrification and such as codes, permitting, and other local policies.

**Project approach may include:**
1. Planning activities to advance transportation decarbonization on a regional or state level such as infrastructure, workforce, or resiliency planning.
2. Implementation of a green fleet recognition or certification program.
3. Organization and facilitation of technical training and/or technical education sessions regarding alternative fuel vehicles, their appropriate use, infrastructure, and safety issues; and

**Clean Cities technical assistance activities include but are not limited to:**
- Technical Analysis: Using tools, resources, self-assessment toolkits, etc. to help fleets, potential end-users, and/or decision makers understand alternative fuel transportation choices; conducting fleet emissions analysis.
- Financial Analysis: Provide assistance with total cost of ownership analysis; understanding financial resources such as grants, loans, and incentives; and conducting economic or market analysis.
- Program Assistance: Share program best practices, lessons learned, and recommendations; provide project or program design input.
- Policy & Planning Assistance: Provide consultation for strategic planning processes such as state, municipal, and utility decisions; review draft policies; advise on best practices for codes and permitting.

**Area of Interest 3: Clean Transportation Demonstration and Deployment**
The Technology Integration Program and its Clean Cities coalition partners have a broad portfolio of potential technology options with the opportunity to address pressing transportation efficiency and equity needs.

**Objective**
The objective of this area of interest is to explore novel solutions to transportation and related clean energy challenges through small-scale demonstration and deployment projects not otherwise addressed in this FOA. This could include projects to address challenges unique to their geographic areas and solutions with potential for replication in other areas across the country, or other ways to accelerate clean transportation deployment. DOE encourages projects with the largest potential impact on transportation emissions reduction. Projects of interest include but are not limited to:
1. Projects with innovative approaches to decarbonize transportation.
2. Projects that address mobility needs of local underserved regions or populations.
3. Projects that focus on the advancement of zero-emissions medium-duty and heavy-duty vehicle technologies.
4. Projects that implement transportation fuels, vehicles, systems, and technologies that have positive impact on greenhouse gas emissions, such as those that implement renewable fuels and renewable energy sources (ex: solar/wind power) into transportation systems.
5. Projects that implement advanced technologies or alternative fuels in off-road, marine, rail, and other non-road applications. For example, ships and rail projects can have very high GGE reduction per vehicle by adopting alternative fuels, renewable blends and/or advanced technologies those which develop roadmaps for decarbonization in local Clean Cities regions.

6. Projects that focus on transitioning high-impact heavy-duty fleets to new fuels and technologies that reduce petroleum consumption and greenhouse gas and criteria emissions.

7. Projects which improve transportation affordability and reduce emissions by accelerating or enabling widespread access to affordable alternative and renewable fuels; and

8. Projects that holistically drive adoption of clean energy technologies across jurisdictions.

**Requirements**

1. Identify the specific challenge to be addressed and the target audience for the technical solution to be implemented.

2. Identify specific technologies, approaches, or activities that align with the Area of Interest objectives described above.

3. Define project team roles and responsibilities as well as funding for specific tasks that Clean Cities coalitions and partners will undertake.

4. Address replicability through a project structure that produces results and insights useful to others across the country; project teams must provide for public release a final technical report that documents project information, analyses, and insights.

**Match Funding Requirement:**

**Application Open Date:** 2/12/2024

**Submission Deadline for Concept Papers/Letter of Intent Deadline:** 3/12/2024 5:00 p.m. ET (Applicants must submit a Letter of Intent and a Concept Paper by 5:00 p.m. ET on the due date listed above to be eligible to submit a Full Application).

**Application Deadline:** 4/30/2024 5:00 p.m. ET

**Period of Performance:** 24-36 Months

**Grant Program Link:**
https://eere-exchange.energy.gov/Default.aspx#Foald6a1696ad-401f-4d44-a4cf-8c78f752cb73