

# Informational Webinar

Jan. 12, 2023

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# **Topics**

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# American-Made Overview



The American-Made program is your **fast track to the clean energy revolution**. Funded by the U.S. Department of Energy, we incentivize innovation through prizes, training, teaming, and mentoring, connecting the nation's entrepreneurs and innovators to America's national labs and the private sector.

#### **The American Made Program is growing:**





30+ prizes



300 Network members

#### **Grants vs. Prizes**

Write and submit concept papers

Concept paper review

Applicants write and submit full applications

Full applications review

Selections and negotiations

Begin performing

Prepare and submit reimbursement request

Request reviewed and reimbursement issued

**Prize Award Process** 

Begin performing

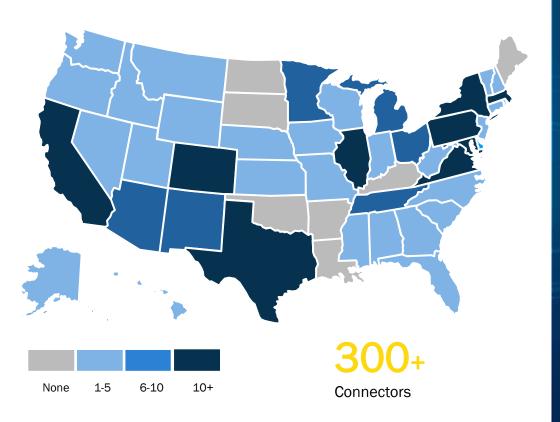
Achieve predefined goal

Complete submission packet

Judges score submissions

Winners receive payment

### **American-Made Network**



# CONNECTORS

- Connectors are professionals from national laboratories, accelerators, incubators, universities, facilities, and industry who support competitors through the development and launch process.
- They recruit entrepreneurs to participate in the American-Made Challenges and provide the support, resources, and necessary connections participants need to succeed in the competition.

#### Connectors in the EAS-E Prize are eligible for:

- \$2,500 recognition award for supporting winning competitors
- \$1,000 award for holding an approved recruitment event

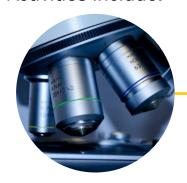


# **EAS-E Prize Overview**

# The Building Technologies Office Approach

The U.S. Department of Energy Building Technologies Office (BTO) invests in energy efficiency and related technologies that make homes and buildings more affordable and comfortable, and make the U.S. more sustainable, secure and prosperous.

#### Activities include:



Research & Development
Pre-competitive, early-stage
investment in next-generation
technologies



Integration
Technology validation, field & lab testing, metrics, market integration

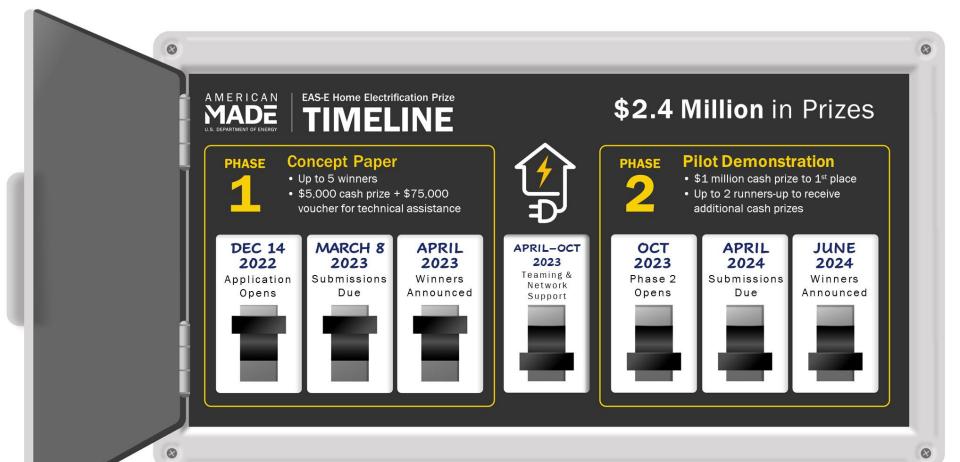


Codes & Standards
Whole building & equipment
standards technical analysis, test
procedures, regulations

# Introducing the Equitable and Affordable Solutions to Electrification (EAS-E) Home Electrification Prize

The EAS-E Prize seeks novel, cost-effective technology solutions for whole-home electrification of all types of residential buildings.

EAS-E Prize competitors will develop and demonstrate "easy electrification" approaches that are faster and more affordable for homeowners and simplify electrification processes for contractors and implementers.



# **Key Objectives Seek Innovations Across Ten Areas**

1. Scale	Applicable to a large number of homes. Competitors must be able to estimate the number of households to which the proposed solution is applicable.		
2. Impact  Substantially impacts the ease of retrofits/upgrades and/or load reduction (as demonstrated by estimated the magnitude of electric load reduction in each affected home relative to existing electrification or			
<b>3. Affordability</b> Affordable for the majority of homes. Affordability considerations may include the net monthly cost ownership, financing approaches, and reductions in installation and/or operation costs.			
<b>4. Speed</b> Faster to implement than current solutions. Solutions should facilitate rapid end-use electrification in hospital shortening time periods such as those attributable to third-party requirements, permits, supply chain, an inspections.			
5. Ease	Simplifies the experience during installation and/or usage.		
6. Flexibility Supports solutions that can be applied across multiple end uses, housing types, climates, and configurations/situations.			
7. Novelty	Offers performance and affordability that goes beyond existing commercial products or services, providing a clear advantage over business-as-usual solutions.		
8. Rapid Deployment	Is capable of rapid deployment by the close of the EAS-E Prize contest period, with consideration of workforce constraints for the technologies in question.		
9. Equitable Benefits Makes electrification easier in low-income communities, not only through affordability but als solutions specific to dwellings more common in these communities.			
10. Multiple Benefits	Provides more than one benefit (e.g., load sharing to avoid panel replacement combined with time-of-use electricity pricing controls).		

### Phase 1 – Concept Paper

- Present an innovative design and/or technology solution that advances affordable electrification.
- Submit a Concept Paper of up to 3,000 words.
- Phase 1 is focused on presenting the proposed solution, comparing them with current practice, forming a capable team, identifying market opportunities, outlining risks, and describing the intended Phase 2 demonstration.
- Up to five Phase 1 winners will:
  - Receive a \$5,000 cash prize each
  - Be eligible to compete in Phase 2
  - o Receive a \$75,000 voucher.

#### Phase 2 - Demonstration

- Phase 1 winners will finalize their teams, complete solution design documentation, evaluate the size of the potential market and the commercial viability of the solution, and demonstrate functional prototype solutions.
- Pilot demonstrations: show that the technology is reliable and capable of broad application and makes a substantial difference in the economic viability of electrifying the homes in question.
- Up to three prizes will be awarded under Phase 2:
  - With a top prize of \$1 million
  - The remaining prize pool will be shared equally between the other Phase 2 winners.

# Who is Eligible?

Any U.S.-based individual or team with a desire to transform ideas into impactful new solutions



AMERICAN-MADE | U.S. DEPARTMENT OF ENERGY

Faculty

technically

relevant concept

& NGOs

# **Eligibility Requirements**

The competition is open to individuals; private entities (for-profits and nonprofits); nonfederal government entities such as states, counties, tribes, and municipalities; and academic institutions, subject to the following requirements:

- An individual prize competitor (who is not competing as a member of a group) must be a U.S. citizen or permanent resident.
- A group of individuals competing as one team may win, provided that the online account holder of the submission is a U.S. citizen or permanent resident. Individuals competing as part of a team may participate if they are legally authorized to work in the United States.
- Private entities must be incorporated in and maintain a primary place of business in the United States.
- Academic institutions must be based in the United States.

Refer to the official rules for the complete eligibility requirements.



#### Equitable, Affordable Solutions to Electrification

An American-Made Challenges Prize Supported by the U.S. Department of Energy

#### **Prize Rules**

DECEMBER 2022

#### Rules

Official EAS-E Prize Rules are available online:

https://americanmadechallenges.org/challen

ges/eas-e/docs/EAS-E-Rules-December.pdf



# **Example Technologies and Illustrative Scenarios**

### **Examples of potential technologies & strategies**

- Sharing of electrical loads to limit required wiring/panel upgrades and to address space constraints in existing panels (e.g., load sharing for cooktop and water heating).
- Dynamic control of electrical loads across the whole home or for key end uses (e.g., appliance load controls that account for whole home electrical demand and ensure it does not exceed rated panel amperage, like existing products for EV charging).
- Smart appliances and equipment that can modulate and manage their own power demand in real time based on whole home electrical demand or a central controller (e.g., heat pumps for heating, ventilating, and air conditioning [HVAC] or water heating, refrigerators). Smart appliances could include small onboard batteries that provide load management and peak shaving capabilities.
- Simplified installations, including do-it-yourself (DIY) approaches (e.g., window unit cold climate heat pump).

- Drop-in heat pump solutions for existing wall or floor furnaces and fireplaces.
- New appliance form factors that address space constraints in existing homes (e.g., shorter water heaters for height-constrained spaces).
- Low-power appliances that reduce the need for electrical panel upgrades and can leverage existing electrical circuits in the home without impacts to consumer utility (e.g., 120V water heaters and 120V HVAC heat pumps).
- Automated home electrification design specifications and support (e.g., automated electrical load code calculations).
- Least-cost comprehensive design solutions (e.g., a repeatable upgrade package for electrifying existing manufactured housing).
- Repeatable solutions that use existing load control and low-power devices to avoid panel upgrades in cold climate homes.
- Design tools that support the use of low-power appliances and load controls.

Note: These strategies could be, but are not limited to, elements of an "easy electrification" solution

## **Sample Illustrative Scenarios**



Single Family Mild Climate

Single Family Cold Climate

- Illustrative scenarios are intended to give competitors ideas for opportunities and challenges to tackle
- Competitors are not required to target these scenarios, but must detail a specific scenario to qualify
- Scenarios emphasize the wholehome, system-level approach the prize seeks.

# Scenario 1: Single-Section U.S. Department of Housing and Urban Development (HUD) Code Manufactured Home



- Propane forced air furnace
- Propane cooking range
- Propane 40-gallon domestic hot water (DHW)
- Propane vented clothes dryer.

House Feature Feature Description		
Vintage	1970s	
Floor area	800 ft <sup>2</sup>	
Stories	One	
ECC Climate Zone 2A		
Garage None		
Water heating  40-gallon propane natural draft water heater, side cold water entilocated in an exterior closet, sealed from the home, no 120V in cl		
Space heating	Propane-fired ducted forced air furnace located in a small interior closet, with leaky, poorly insulated ducts in the belly; 40 kBtu/hr (thousand British Thermal Units per hour) and 80 AFUE (annual fuel utilization efficiency)	
Space cooling Window air conditioner (AC) in bedroom		
Air leakage 15 air changes per hour at a 50 pascal pressure difference (ACH <sub>5</sub>		
Cooking Four-burner propane range		
Clothes dryer	120V propane vented clothes dryer	
30A panel and service, no free circuit spaces, no arc- or ground-circuit interrupter (AFCI or GFCI) protection; indoor panel is wired subpanel, with main service feed, meter, and disconnect located power pole 20 ft from dwelling		
House wiring	Romex three-conductor copper wiring	
Foundation	Pier and beam foundation with vinyl skirting, underbelly floor insulation at R-19, detached, ripped, and hanging down in various locations	
Above grade walls	R-13 fiberglass batts	
Windows	Single-pane, aluminum framed	
Attic	Low-clearance, maximum height of 24 in, R-19 fiberglass batts	
Roof	Low-slope roof, 20 years old	

House Feature	Feature Description	
Vintage	1950s	
Floor area	750 ft <sup>2</sup> per unit, six units (two per floor) plus common areas	
Stories	Three	
IECC Climate Zone	5A	
Garage	None	
Water heating	Shared natural gas boiler in unconditioned basement, 199 kBtu/hr	
Space heating	Two shared natural gas boilers in unconditioned basement, 80 AFUE, 199 kBtu/hr	
Space cooling	Window AC in each unit	
Air leakage	15 ACH <sub>50</sub>	
Cooking	Natural gas, four-burner cooking range	
Clothes dryer  Three shared 120V natural gas vented clothes dryers in uncondit basement		
50-amp subpanel in each unit. Building service does not have overcurrent protection. No free circuit spaces, no AFCI or GFCI protection		
House wiring	Original two-conductor knob and tube wiring	
Foundation	Unconditioned basement with slab floor	
Above grade walls	Brick cladding, uninsulated	
Windows	Single-pane, wood frame	
Attic	None	
Roof	Flat roof membrane, uninsulated	

#### Scenario 2: Low-Rise Multi-family Building



- Gas central boiler for space heating
- Gas cooking ranges in each unit
- Gas central boiler serving hot water to all units
- Shared gas vented clothes driers (3).

#### **Scenario 3: Mild Climate Single-Family**



- Gas 80-kBtu floor furnace
- Gas log set fireplace
- Gas four-burner cooktop and double stack wall ovens
- Gas 40-gallon vented DHW
- Gas vented clothes dryer
- EV charging.

House Feature	Feature Description	
Vintage	1928	
Floor area	1350 ft <sup>2</sup>	
Stories	One	
IECC Climate Zone	Climate Zone 3C	
Garage	None	
Water heating  40-gallon, atmospherically vented natural gas water heater in kitchen closer room with minimal clearances and no 120V outlet in closet		
Space heating	80 kBtu/hr natural gas floor furnace in central hallway (design load: 42 kBtu/hr); one natural gas log set fireplace	
Space cooling	None	
Air leakage	15 ACH <sub>50</sub>	
Cooking	Natural gas four-burner cooktop; separate double-stack natural gas wall ovens	
Clothes dryer	lryer 120V natural gas vented clothes dryer located in shared kitchen/laundry room	
Electric panel 100-amp panel and service, no free circuit spaces, no AFCI or GFCI protections.		
Mixture of original two-conductor knob and tube, plus modern Romex three  House wiring copper wiring from various unpermitted remodels; numerous exposed splice in vented crawlspace.		
Foundation	Vented crawlspace, poured concrete stem wall, height clearance varies from 12 to 36 ft, severely degraded fiberglass batts, no ground moisture barrier	
Above grade walls	Lathe and plaster, 2x4 uninsulated, 1x4 diagonal sheathing, tar paper, cement stucco	
Windows	Original, wood framed, single-pane glazing, no modern flashing	
Attic	Gable wall venting; 4:12 roof slope over main house; unvented, compact roof over family room addition; existing sparse R-13 fiberglass batting; rodent feces and evidence of pests; attic height at roof peak is 42 in	
Roof	15-year-old, single-ply asphalt shingle roof; four skylights; no gutters	

House Feature	Feature Description		
Vintage	1910		
Floor area	3100 ft², including basement		
Stories	3.5, including basement and finished attic		
IECC Climate Zone	5A		
Garage None			
Water heating  40-gallon, atmospherically vented natural gas water heater in urbasement with no 120V outlet nearby			
Space heating	120 kBtu/hr natural gas boiler, 80 AFUE in unconditioned basement, hot water radiators throughout conditioned space (design load: 94 kBtu/hr); heat lamps in each of three bathrooms; two masonry chimneys and wood fireplaces		
Space cooling None			
Air leakage	15 ACH <sub>50</sub>		
Cooking	Natural gas six-burner range with standing pilot lights, 40" wide		
Clothes dryer	120V natural gas vented clothes dryer in unconditioned basement		
Electric panel	100-amp panel and service, no free circuit spaces, no AFCI or GFCI protection		
House wiring	Original two-conductor knob and tube wiring		
Unconditioned, partly finished walk-out basement, slab floor, poured cond stem wall; finished basement has carpet on top of slab, wall paneling, and ceilings			
Above grade walls	Lathe and plaster, 2x4 balloon-framed uninsulated, 1x4 diagonal sheathing, tar paper, brick cladding		
Windows	Exterior storm windows plus wood framed, single-pane glazing, no modern flashing		
Attic	Unpermitted finished attic, knee walls, 2x6 rafters, 6:12 roof slope; R-19 in flat attic knee wall sections		
Roof			

#### **Scenario 4: Cold Climate Single-Family**



- Gas 120 kBtu/hr boiler with steam radiators
- Two wood fireplaces, masonry chimney
- Gas six-burner range with standing pilot lights
- Gas 40-gallon vented DHW
- Gas vented clothes dryer.



# Phase 1: How to Apply and What to Submit

## **Phase 1 – Important Dates**

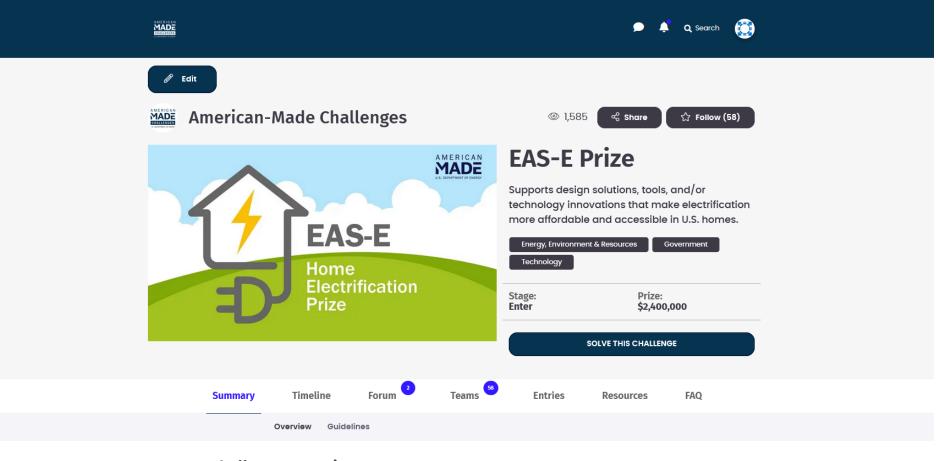
#### Now!

 Follow the EAS-E Prize on HeroX for updates and start working.

#### March 8, 2023, 3 p.m. ET

 Deadline to submit an entry to Phase 1 on HeroX.





Challenge Overview

### What to Submit for Phase 1

- 1. One summary PowerPoint slide (public)
- 2. Concept paper (not public)
  - a) PDF, up to 3,000 words, using a font that is at least 11-point
- 3. Team CVs (not public, combined in a single PDF)
- 4. Letters of commitment or support (optional, not public).



# **Concept Paper**

### Word Limit: 3,000 words

- Identify the baseline housing scenario(s) (see Section 1.3.2 of official rules) and affordable electrification opportunities to be addressed
- Describe business-as-usual solutions for addressing the selected scenario(s)
- Provide an explanation and description of the novel design/tool and/or technical solution(s)
- Explain how the proposed solution addresses the objectives described in Table 1
- Estimate the market potential and cost of solution(s)
- Review benefits and costs of the solution(s) compared to existing (business-asusual) solutions
- Summarize risks and barriers to the solution's success
- Summarize and justify the methods proposed for Phase 2 demonstration
- List team members, resources, relevant experience, and relevant letters of support.



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DECEMBER 2022

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# Phase 1: Submission Scoring and Winner Selection

## Phase 1 Submission Scoring Overview

- Expert Reviewers will be assigned to each eligible submission and will assign a score for each scoring statement between 1 and 5 in each of the below review categories:
  - Category 1: Equity, Affordability, and Inclusion
  - Category 2: Innovation and Impact
  - Category 3: Technical Feasibility
  - Category 4: Team and Partnering Strategy

Expert Reviewers Scoring Guide				
1 2 3		3	4	5
Strongly	Disagree	Slightly	Slightly	Adroo
disagree	Disaglee	disagree	agree	Agree

- Advisory reviewers will review submissions and provide input to the Department of Energy Building Technologies Office (BTO).
- BTO is the final judge and will make selections based on Expert Reviewers scores, comments and program policy factors.

### **Phase 1 Scoring Criteria**

# Phase 1 Review Categories Advisory reviewers give a score of 1 to 5 for each category below:

Category #	Equity, Affordability, and Inclusion (40%)		
1*	Proposed solution improves the energy security of low- and moderate-income (LMI) households and disadvantaged communities (e.g., by reducing household operating costs associated with utility bills and maintenance). This could be achieved by reducing energy use, load shifting to off-peak periods, or a combination of these and other strategies. (Score will be doubled—up to ten points possible).		
2	The concept paper includes market characterization that addresses racially and/or economically diverse communities.		
3	Plans for Phase 2 solution demonstration include engaging racially and/or economically diverse communities as part of testing.		
4*	Upfront cost. Purchase and installation costs are less than current, business-as-usual solutions. (Score will be doubled—up to ten points possible).		
5*	Operating costs. Energy and maintenance costs are less than current, business-as-usual solutions. (Score will be doubled—up to ten points possible).		

<sup>\*</sup>scores in categories 1, 4, and 5 are doubled (worth 10 points each)

# **Phase 1 Scoring Criteria**

# Phase 1 Review Categories Advisory reviewers give a score of 1 to 5 for each category below:

Category #	Innovation and Impact (35%)		
6	Scale. Solution is applicable to a large number of homes.		
7	Impact. Solution will have substantial impacts on load reduction or ease of electrification in each affected home.		
8	Speed. Solution is faster to implement than current solutions, reducing delays due to third-party requirements, permits, supply chain, and inspections.		
9	Ease. Solution simplifies installation and improves ease of use.		
10	Flexibility. Solution has potential applications across multiple end uses, housing types, climates, and configurations/situations.		
11	Novelty. Solution is novel, without similar/equivalent solutions available in the market.		
12	Multiple benefits. Solution provides more than one benefit (e.g., load control for overcurrent protection and price optimization controls).		

# **Phase 1 Scoring Criteria**

# Phase 1 Review Categories Advisory reviewers give a score of 1 to 5 for each category below:

Category #	Technical Feasibility (15%)		
13	Solution is technically feasible and practical to deploy.		
14	Risks or limitations associated with the solution are well defined and clearly articulated.		
15	Proposed Phase 2 demonstration activities are feasible and appropriate to advance deployment.		
Category #	Team and Partnering Strategy (10%)		
16	The team's track record demonstrates notable entrepreneurial and team-building qualities and has a high likelihood of achieving commercial success.		
17	The team does not have any major gaps in expertise or missing partners that may limit the success of the technology.		

### **Program Policy Factors**

- Geographic diversity and potential economic impact of projects.
- Whether the use of additional DOE funds and provided resources are nonduplicative and compatible with the stated goals of this program and the DOE mission generally.
- The degree to which the submission exhibits technological or programmatic diversity when compared to the existing DOE project portfolio and other competitors.
- The level of industry involvement and demonstrated ability to accelerate commercialization and overcome key market barriers.
- The degree to which the submission is likely to lead to increased employment and manufacturing in the United States or provide other economic benefit to U.S. taxpayers.
- The degree to which the submission will accelerate transformational technological, financial, or workforce advances in areas that industry by itself is not likely to undertake because of technical or financial uncertainty.
- The degree to which the submission supports complementary DOE-funded efforts or projects, which, when taken together, will best achieve the goals and objectives of DOE.
- The degree to which the submission expands DOE's funding to new competitors and recipients who have not been supported by DOE in the past.
- The degree to which the submission enables new and expanding market segments.
- Whether the project promotes increased coordination with nongovernmental entities for the demonstration of technologies and research applications to facilitate technology transfer.
- Whether the submission content sufficiently confirms the competitor's intent to commercialize early-stage technology and establish a viable U.S.-based business in the near future.



# Looking Ahead to Phase 2

#### **Phase 2 Demonstration**

- Anticipated 9 months long Opens in October 2023 and closes June 2024
- Finalize their teams, complete solution design documentation, evaluate the size of the potential market and the commercial viability of the solution, and demonstrate functional prototype solutions.
- Up to three prizes will be awarded under Phase 2, with a top prize of \$1 million. The remaining prize pool will be shared equally between the other Phase 2 winners.

After the Phase 1 announcement, there will be a six-month gap between the end of Phase 1 and the beginning of Phase 2 to allow teams time to find a pilot demonstration site for their prototype solution.

- \$75,000 vouchers to the winners of Phase 1 can be used to offset the demonstration costs
- Power Connector, ADL
   Ventures, will help teams with
   matchmaking and finding a
   national lab or voucher service
   provider to complete the work

#### What is a Demonstration?

In addition to other submission materials, Phase 2 requires the project team to test and demonstrate a working prototype of their solution that is consistent with the solution documentation submitted in Phase 1.

#### **Specific Demonstration Requirements:**

- Pilot demonstrations should show that the technology is reliable and capable of broad application, and that it makes a substantial difference in the economic viability of electrifying the homes in question.
- Specific demonstration activities (e.g., laboratory or field testing) and the nature of any functional prototype solutions (e.g., hardware, software) will depend on the solution proposed.
- It is the competitors' responsibility to justify the prototype and demonstration activities.
- Refer to the criteria in the Official Rules to see what the demonstration with be judged on.

#### **Vouchers**

Vouchers are additional prize funds that teams use to help test and demonstrate their prototypes.

- Winners of Phase 1 will each receive a \$75,000 voucher to spend on technical assistance or demonstration resources at national laboratories and/or American-Made Network Connector facilities to pilot and demonstrate their Phase 2 solutions.
  - These vouchers are intended to offset the cost of Phase 2 demonstration.
     They may not cover the entire effort of the demonstration.
- If there is a facility outside of the AMN that you want to work with, they can join the AMN and become eligible to accept the voucher.
- ADL Ventures (EAS-E Prize Power Connector), will assist Phase 2 teams with matching with a VSP to demonstrate their innovations.
- We will supply a list of VSPs and their capabilities on HeroX. Follow HeroX for updates on when this list is released.



# Get Support for your Submission

## **Connector Recognition Rewards**

Reward Name	\$	Details
Phase 1: Concept Paper	\$2,500 per winning competitor	Distributed to Connectors who recruit and/or support competitors who go on to win the Phase 1
Recruitment Event	\$1,000 per event	Distributed to Connectors who recruit and/or support competitors who go on to win Phase 1.

- If you work with a Connector, you can nominate them for Connector Recognition Rewards!
- You MUST list the Connector on your submission.
- Connectors can host recruitment events and receive a cash award!
- Connector MUST be an approved member of the American-Made Network.
- Power Connectors and National Labs are not eligible.

#### **Power Connector Assistance**

Power Connectors are subcontracted to provide direct support to competitors.

#### Phase 1

They will be conducting recruitment and outreach, and providing application assistance to competitors.

#### Phase 2

Before the start of Phase 2, the ADL Ventures will serve as the matchmaker for teams and VSPs to help teams find the Voucher Service Provider that best suites their needs, as well as providing technical and application assistance throughout Phase 2.



To connect with ADL Ventures, contact <a href="mailto:Alyssa@adlventures.com">Alyssa@adlventures.com</a>.

#### What's Next?

- Follow the challenge on HeroX
   <a href="https://www.herox.com/EASEPrize">https://www.herox.com/EASEPrize</a>
- 2. Read the rules

  <a href="https://americanmadechallenges.org/challenges/eas-e/docs/EAS-E-Rules-December.pdf">https://americanmadechallenges.org/challenges/eas-e/docs/EAS-E-Rules-December.pdf</a>
- 3. Connect with ADL Ventures at <a href="mailto:Alyssa@adlventures.com">Alyssa@adlventures.com</a>
- 4. Get support from an <u>American-Made Network</u> <u>Connector</u>.
- 5. Email <u>BuildingsPrize@nrel.gov</u> with any questions.
- 6. Submit by March 8, 2023, at 3 p.m. ET.





# Questions?