# Notice of Intent to Issue

# Funding Opportunity Announcement No. DE-FOA-0000821

The Department of Energy (DOE) Office of Energy Efficiency and Renewable Energy (EERE) intends to issue, on behalf of the Fuel Cells Technologies Office, a Funding Opportunity Announcement (FOA) entitled “Hydrogen Delivery Technologies”.

This FOA supports research and development efforts to address critical challenges and barriers for hydrogen delivery technology development and cost reduction. The long-term goal of production and delivery research and development (R&D) is a high-volume hydrogen threshold cost of $2-$4 per gallon gasoline equivalent (gge) (delivered and dispensed, but untaxed) to allow fuel cell electric vehicles (FCEVs) to be competitive on a dollar per mile basis with gasoline in hybrid electric vehicles. More specifically, the portion of the threshold cost goal apportioned to delivery is <$2/gge hydrogen. High-reliability, low-cost compression, storage, and dispensing equipment is needed to meet this goal.

It is anticipated that the FOA may include the following Areas of Interest:

**Area of Interest 1: Forecourt compressors for 700 bar gaseous dispensing which can compress gaseous hydrogen to at least 875 bar at 75% isentropic efficiency while lowering the capital cost to meet the 2020 targets as defined by the Multi-Year Research, Development and Demonstration Plan available here:** [**http://www1.eere.energy.gov/hydrogenandfuelcells/mypp/pdfs/delivery.pdf**](http://www1.eere.energy.gov/hydrogenandfuelcells/mypp/pdfs/delivery.pdf)

**Area of Interest 2: Polymer and composite materials for seals, valve seats, dispenser hoses, and tank liners which can operate at temperatures greater than 200⁰C and pressures above 875 bar including under cyclic pressure conditions for greater than 10,000 hours.**

**Area of Interest 3: 875 bar, or greater, forecourt storage capable of meeting the 2020 capital cost target of $1,000/kg stored while maintaining a 30 year life.**

DOE envisions awarding multiple financial assistance awards in the form of Cooperative Agreements. The estimated period of performance for each award will be approximately three years.

This Notice is issued so that interested parties are aware of the DOE’s intention to issue this Funding Opportunity Announcement in the near term. Any of the information contained in this Notice is subject to change. The DOE will not entertain any questions or telephone calls at this time involving this Notice. Once the FOA has been released, DOE will provide an avenue for potential applicants to submit questions.

DOE plans to issue the FOA in or around the July/August timeframe. The FOA will be available for viewing at the EERE Exchange website <https://eere-exchange.energy.gov/>. EERE encourages integrated teams to apply to this FOA. If applicants wish to receive official notifications and information from EERE regarding this FOA they should register in EERE Exchange. When the FOA is released, applications will only be accepted through Exchange.

**This is a Notice of Intent (NOI) only. DOE may issue a FOA as described herein, may issue a FOA that is significantly different than the FOA described herein, or DOE may not issue a FOA at all.**

In anticipation of the FOA being released, there are several one-time actions prospective applicants must complete in order to submit an application:

* Register and create an account on EERE Exchange at <https://eere-exchange.energy.gov/>. This account will then allow the user to register for any open EERE FOAs that are currently in EERE Exchange. It is recommended that each organization or business unit, whether acting as a team or a single entity, use only one account as the contact point for each submission.

The EERE Exchange registration does not have a delay; however, the remaining **registration requirements below could take several weeks to process and are necessary in order for a potential applicant to receive an award under this announcement**. Therefore, although not required in order to submit an Application through the EERE Exchange site, **all potential applicants lacking a DUNS number, or not yet registered with SAM or FedConnect should complete those registrations as soon as possible**.

Questions related to the registration process and use of the EERE Exchange website should be submitted to: EERE-ExchangeSupport@hq.doe.gov

**Applicants should not wait until the last minute to begin the submission process.** During the final hours before the submission deadline, Applicants may experience server/connection congestion that prevents them from completing the necessary steps in EERE Exchange to submit their applications. **EERE will not extend the submission deadline for Applicants that fail to submit required information and documents due to server/connection congestion.**

* Obtain a Dun and Bradstreet Data Universal Numbering System (DUNS) number (including the plus 4 extension, if applicable) at <http://fedgov.dnb.com/webform>
* Register with the System for Award Management (SAM) at <https://www.sam.gov>. Designating an Electronic Business Point of Contact (EBiz POC) and obtaining a special password called an MPIN are important steps in SAM registration. Please update your SAM registration annually.
* Register in FedConnect at <https://www.fedconnect.net/>. To create an organization account, your organization’s SAM MPIN is required. For more information about the SAM MPIN or other registration requirements, review the FedConnect Ready, Set, Go! Guide at <https://www.fedconnect.net/FedConnect/PublicPages/FedConnect_Ready_Set_Go.pdf>
* Register in Grants.gov to receive automatic updates when Amendments to this FOA are posted.  However, please note that applications, letters of intent, and/or concept papers will not be accepted through Grants.gov.  <http://www.grants.gov/>.
* Note: Announcements regarding modifications will also be sent out through EERE Exchange.