Regional Clean Hydrogen Hubs Program Requirements
The Regional Clean Hydrogen Hubs program will demonstrate the production, processing, delivery, storage, and end-use of clean hydrogen in the U.S. through the deployment of at least 4 hubs, to enable large-scale deployment of clean hydrogen.

- **Feedstock Diversity**: At least one hub is required to demonstrate production of hydrogen from fossil fuels, at least one for hydrogen from renewable energy, and at least one hub for hydrogen from nuclear energy.

- **End-Use Diversity**: At least one hub must demonstrate hydrogen use in power generation, at least one hub for hydrogen use in industrial sectors, at least one hub for hydrogen in heating, and at least one hub for hydrogen in transportation.

- **Geographic Diversity**: At least two hubs are designated to be in regions of the United States with the greatest natural gas resources.
Bipartisan Infrastructure Bill
Regional Clean Hydrogen Hubs

DOE Funding Opportunity Announcement Released
On September 22, 2022, DOE released $7 billion in funding to support an initial launch of 6-10 hubs.

- Concept papers are due November 7, 2022, with full applications due April 7, 2023.
- DOE plans awards between $500 million and $1 billion per hub, with a 50% non-federal cost share.
- Possibility of additional funding launches will be directed to add supplemental technologies to existing hubs in following years.

Clean Hydrogen Eligibility
DOE has released its draft Clean Hydrogen Production Standard and is soliciting comments by November 14:

- To qualify as clean, hydrogen must be produced with a carbon intensity equal to or less than 4 kilograms of carbon dioxide-equivalent per kilogram of hydrogen produced.
- Measured at the point of production and DOE is directed to use Argonne National Laboratories’ GREET model for lifecycle emissions.

Some of the distinct considerations that will factor into DOE’s consideration of each hub project. Source: Department of Energy
**Regional Clean Hydrogen Hubs**

**Department of Energy Timeline**

**Phase 1** will encompass initial planning and analysis activities to ensure that the overall H2Hub concept is technologically and financially viable, with input from relevant local stakeholders. **Phase 2** will finalize engineering designs and business development, site access, labor agreements, permitting, offtake agreements, and community engagement activities necessary to begin installation, integration, and construction activities in **Phase 3**. **Phase 4** will ramp-up the H2Hub to full operations including data collection to analyze the H2Hub’s operations, performance, and financial viability.

<table>
<thead>
<tr>
<th>Business Development &amp; Management</th>
<th>Phase 1: Detailed Plan</th>
<th>Phase 2: Develop, Permit, Finance</th>
<th>Phase 3: Install, Integrate, Construct</th>
<th>Phase 4: Ramp-Up &amp; Operate</th>
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<tr>
<td><strong>Application</strong></td>
<td><strong>Design</strong></td>
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<td><strong>Design</strong></td>
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<tr>
<td>Pre - DOE funding</td>
<td>Up to $20M DOE Funding</td>
<td>Up to 15% of Total DOE Funding</td>
<td>DOE Funding To Be Negotiated</td>
<td>DOE Funding To Be Negotiated</td>
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<tr>
<td><strong>Technical Volume</strong></td>
<td><strong>Initial Application</strong></td>
<td><strong>Application</strong></td>
<td><strong>Design</strong></td>
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<tr>
<td>H2Hub Summary</td>
<td>Business Plan (BP), including preliminary site selection</td>
<td>Market, feedstock, &amp; offtake letters of commitment</td>
<td>Teaming, offtake, &amp; feedstock agreements</td>
<td>Regular progress/status reporting for all agreements</td>
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<td>Management Plan (MP)</td>
<td>Financial Plan (FP)</td>
<td>Final site selection</td>
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<tr>
<td><strong>Engineering, Procurement, Construction, &amp; Operations</strong></td>
<td><strong>Engineering &amp; Design (~90%) &amp; related documents</strong></td>
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<tr>
<td><strong>Safety, Security, &amp; Regulatory Requirements</strong></td>
<td><strong>Safety history/culture description</strong></td>
<td><strong>Execution-ready Safety Plans (hydrogen &amp; site; 50% design)</strong></td>
<td><strong>Status reporting on required permits &amp; environmental</strong></td>
<td><strong>Regular operations status reporting</strong></td>
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<tr>
<td>Risk Analysis &amp; Mitigation</td>
<td><strong>Risk Management Plan (RMP)</strong></td>
<td><strong>Permitting workflow overview</strong></td>
<td><strong>Final Cybersecurity Plan</strong></td>
<td><strong>Performance ramp verification &amp; validation (V&amp;V)</strong></td>
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<tr>
<td>Technical Data &amp; Analysis</td>
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<td><strong>Environmental Considerations Summary</strong></td>
<td><strong>Permits in place for construction</strong></td>
<td><strong>Techno-economic verification &amp; validation (TEA)</strong></td>
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<tr>
<td>Community Benefits: Job Quality &amp; Equity</td>
<td><strong>Updated LCA</strong></td>
<td><strong>Implementation of CEBP</strong></td>
<td><strong>Complete environmental review/assessment</strong></td>
<td><strong>RPM, Risk Register updates</strong></td>
</tr>
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</table>

**Source:** Department of Energy

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The planned phases for the Regional Clean Hydrogen Hub Program.

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The Bipartisan Infrastructure Bill

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The Department of Energy (DOE) is excited to announce the launch of the Regional Clean Hydrogen Hub Program, a cornerstone of the Bipartisan Infrastructure Act. This program is designed to accelerate the deployment of clean hydrogen technologies across the country, creating new jobs and driving economic development in communities across the nation.

The Regional Clean Hydrogen Hub Program is focused on creating hubs that will serve as demonstration sites for the development of clean hydrogen technologies. These hubs will be located in regions with existing hydrogen infrastructure and will include a variety of partners, including utilities, industrial facilities, and municipalities.

The program will support the development of hydrogen production, storage, and transport infrastructure, as well as the integration of clean hydrogen into the energy grid. The program will also support the development of clean hydrogen technologies, including electrolyzers, fuel cells, and hydrogen storage systems.

The goal of the Regional Clean Hydrogen Hub Program is to create a network of hubs that will serve as models for the widespread deployment of clean hydrogen technologies, helping to reach the nation’s clean energy goals.

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The DOE is committed to working closely with states, local governments, and the private sector to ensure the success of the Regional Clean Hydrogen Hub Program. The program will receive up to $20 million in funding to support the development of the first hub, with additional funding available for subsequent hubs.

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The DOE is currently seeking applications from states and local governments interested in hosting a Regional Clean Hydrogen Hub. The application process will open soon, and interested parties are encouraged to submit applications as soon as possible.

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The Bipartisan Infrastructure Act is a historic investment in America’s infrastructure, providing funding for improvements in transportation, water systems, and clean energy projects. The Regional Clean Hydrogen Hub Program is a key component of this legislation, helping to drive the transition to a clean energy future.

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The DOE is committed to working with all stakeholders to ensure the success of the Regional Clean Hydrogen Hub Program. We look forward to working with states, local governments, and the private sector to create a network of clean hydrogen hubs that will help drive the nation’s transition to a clean energy future.