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WYOMING
ENERGY
AUTHORITY

**Request For Proposals:
Wyoming Hydrogen
Pilot Project**

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Get to Know Us



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Wyoming Energy Strategy

EMPOWERING OUR NATION WITH A
NET-ZERO ENERGY MIX

“...today, I challenge you to join me in making Wyoming net negative in CO₂ emissions. We have to take the lead, and not look back...

*...as we actively and thoughtfully collaborate with industry, environmental groups, entrepreneurs, local communities, and others to produce our way to net negative carbon emissions, literally, not by regulating away our past, **but by innovating our way to the future.**”*

- Gov. Gordon, State of the State address, March 2, 2021

Key Initiatives

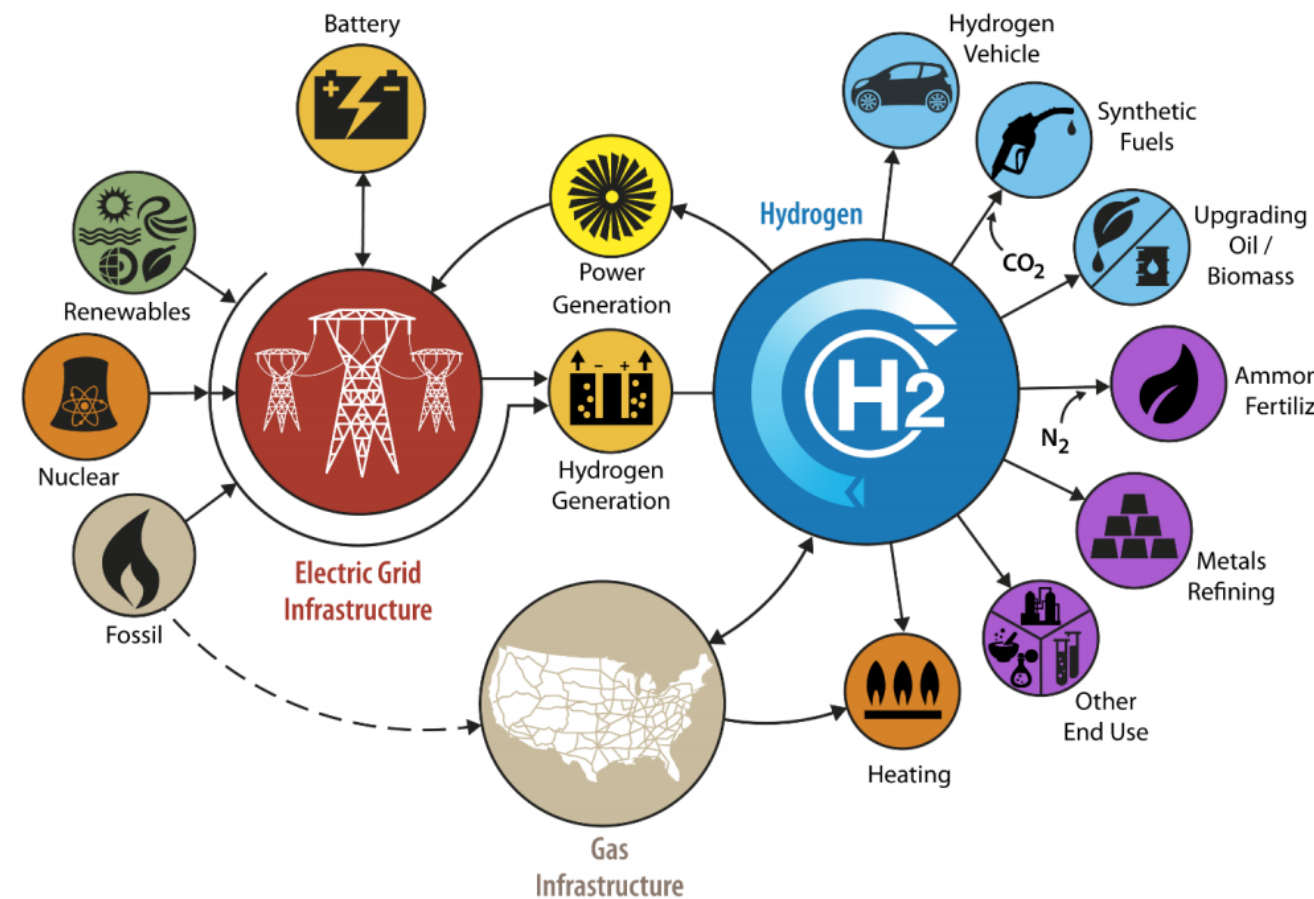
Wyoming Hydrogen

- School of Energy Resources (SER), at UW
-Center Of Excellence
- WEA cost-share study

Sequestration as a Service

- Pre-permit Class VI wells
- Public/Private commercialization of CCUS
- Stewardship

H2@SCALE ENERGY SYSTEM* – Relevance/Impact



*Illustrative examples, not comprehensive



Other Initiatives, Partnerships & Collaborations

- Energy Roundtable
- Advanced Nuclear Industries Working Group
- CCUS Products
- Non-linear value chains
- Low-emissions certification
- Modernized credit mechanisms
- Added value electricity
- WYCARBON
- WY-CO CO2 pipeline connect permitting
- Commercialization plan
- Offsets
- Agriculture Carbon Cycle
- Carbon Market System
- ...

Hydrogen Pilot Project - RFP

- **What is the WEA trying to achieve?**
 - Get something off the whiteboard and into the field
- **What types of projects will do well?**
 - Projects with a certain degree of maturity, that seek to test the viability of a Hydrogen sector in Wyoming
- **What technologies are open for consideration?**
 - If it has a 'H' in it somewhere, its probably open for consideration
- **How much \$?**
 - Modest amount to start, but potential for more.

Hydrogen Pilot Project - RFP

Overview

- **Direct and indirect actual and potential public benefits of the project to WY**
- **Research & Technology Topics**
- **Funding**
 - Leverage non-WEA funds: large matches
 - WEA funding: up to \$1 million
 - In-kind: optional, only up to 40% of total
- **Project Period**
 - Tailored to winning proposal(s)

Hydrogen Pilot Project - RFP

Overview

- **Minimum Requirements**
 - Read Section 5 (A)
 - Proprietary and Confidential Information
- **Evaluation Criteria – Exhibit 3**
- **Public Hearing**
- **Final Reports**
- **Dates**
 - Updates will be posted on our website and emailed to registrants

Hydrogen Pilot Project - RFP

Q&A

1. What is the geographic location of the project?

A: Wyoming, but the specific location is up to the awardee.

2. Can we partner with the Wyoming Business Council and the State Loan Investment Board?

A: Yes. It is expected that projects leverage significant match beyond the money provided by the Wyoming Energy Authority.

3. How much money is available? Is cost share required?

A: Awards of up to \$1 million will be considered and cost-share / match is required.

4. Can nuclear be included?

A: Yes.

Hydrogen Pilot Project - RFP

Q&A

5. When involving a green hydrogen project, may other renewable sources be used other than solar PV and wind?

A: Yes

6. Would additional funding incentives be considered if consultants and labor is used from the Wyoming labor pool for the construction of this project?

A: No, but direct and indirect benefits to the state are part of the selection criteria.

7. Would additional funding incentives be considered if an additional by-product could add increased value to the Wyoming economy besides hydrogen production? Especially if the manufactured product is a healthcare staple in combating Covid-19 and other respiratory illnesses?

A: No, but the overall potential of the project is part of the selection criteria.

Hydrogen Pilot Project - RFP

Q&A

8. How are payments made to the awardee(s)?

A: For tangible projects such as construction, infrastructure, and/or equipment, payments will be made on a reimbursement basis. Otherwise, payments will be made in approximately equal parts spread out over the term of the project.

9. What type of public-private partnerships arrangements are being considered or would be accepted in a proposal?

A: We are taking a very flexible approach. Partnerships can be as small as one entity plus the WEA, or larger.

Hydrogen Pilot Project - RFP

Q&A

10. Would a hydrogen fuel blending demonstration at a power plant utilizing grey hydrogen be acceptable or would projects be required to source either blue or green hydrogen?

A: If the purpose of the proposed pilot project is to demonstrate utilization or transportation, the source of the hydrogen does not need to be blue or green. In other words, if the project does not address hydrogen production (but rather utilization, transportation or storage), the source of hydrogen does not need to be blue or green.

11. Is the Wyoming Energy Authority planning to fund projects in each of the proposed six (6) topic areas, and what are the evaluation criteria that would be used in determining what projects, within each topic are funded?

A: No, those are just options. The evaluation is guided by criteria outlined in the RFP and exhibits, but ultimately is up to the discretion of the selection committee and the ERC (Wyoming Energy Resource Council).

Hydrogen Pilot Project - RFP

Q&A

12. Are all methods and discoveries resulting from this project reserved to the state?

A: No. Please review Exhibit 4 *Project Template - Funding Agreement*, specifically Section 5: “Responsibilities of Recipient.”

13. Will the winner be allowed in some measure to collaborate with other projects even outside of Wyoming?

A: Yes. However, this project needs to be based in Wyoming and WEA funding needs to be allocated to this project.

Hydrogen Pilot Project - RFP

Q&A

14.Design alone: Technology selection and execution cost estimate / certainty?

A: The WEA does not have a project, but rather is soliciting projects to which we can apply cost-share.

15.Pilot construction: once technology is selected then provide EPC implementation; but at present the technology, plant configuration for the various elements of hydrogen pilot is not selected and the location is not identified

A: See answer above (Question 14).

16.Identify the highest cost benefit via in-kind contribution

A: In-kind contributions are allowed, but not required. In-kind contributions will not be a component of the scoring process.

Hydrogen Pilot Project - RFP

Q&A

17. Does the WEA intend to award feasibility studies and subsequent engineering and execution for the pilot OR expect the proponent to formulate funding and execution plan in partnership with state / non-state entities?

A: The WEA may fund a proposed feasibility study, or may fund proposed engineering and execution. The intent is to fund proposals that have the greatest potential positive impact for Wyoming.

18. Is WEA considering an accelerated implementation (with public-private partners with partial state funding) vs. a conventional structured approach to execution managed by WEA (or delegated business partner) – starting with technology selection with flexibility to process more than one feed, and then follow through with EP or EPC execution.

A: The WEA is considering providing cost-share to hydrogen prospects within the state of Wyoming.

Hydrogen Pilot Project - RFP

Q&A

19. Is there the possibility of pull-through for the proponent/proposer if an in-kind contribution is offered in early pilot development?

A: In-kind is optional, not expected.

20. Is there appetite for alternative execution models and services to help develop and implement the pilot plant?

A: The WEA is flexible with respect to execution models and services.

21. Do the FAR (Federal Acquisition Regulation) audit requirements apply for the state funding made available for this pilot project?

A: No. Public procurement processes in general are not required based on this funding from the WEA. If you are blending funding from other sources, you will need to follow the regulations from those sources. Please review Exhibit 4 – Funding Agreement, Section 5 “Responsibilities of Recipient” for documentation and reporting requirements for the WEA.

Hydrogen Pilot Project - RFP

Q&A

22. Given the limited amount of project funding available, what is the WEA's preference with respect to the budgetary balance between the cost of: a) paper based design/analysis of a proposed pilot project; and b) physical construction of a small pilot that could be used for demonstration purpose? In other words, would a pure study be acceptable, or is some physical embodiment of a pilot process essential or strongly preferred?

A: All options are open for consideration.

23. How many acceptable proposals can be funded?

A: Depends on total amount requested. There is no limit to the number of projects. Only one award allowed per prime applicant.

Hydrogen Pilot Project - RFP

Q&A

24. Is it possible that industrial revenue bonds (IRBs) could be issued by the WEA for facilities, structures and properties incidental and necessary or useful in the production or transmission of hydrogen? If the answer is “Yes,” could IRBs be issued for commercially viable hydrogen demonstration projects?

A: Yes and yes.

Hydrogen Pilot Project - RFP

Q&A

25. In section A “Funding” the paragraph titled “Collaboration” contains the following statement:

“ ... no funds provided by the State of Wyoming can be expended to support work performed outside of Wyoming.”

a. If the proposal is led by a Wyoming based company & the final pilot scale project is built and housed in Wyoming, can U.S. based subrecipients working with the Wyoming lead recipient company conduct work in their home states?

b. Can federal agencies, such as the United States Dept of Energy (DOE), or national labs be a subrecipient on an award if the lead company is Wyoming based and if the final pilot scale project is built and housed in Wyoming?

c. Can the requirement stated above be satisfied by simply ensuring that all non-Wyoming costs in a project are paid for by non-State of Wyoming funds?

A: a) Yes. b) Yes. c) Yes.

Hydrogen Pilot Project - RFP

Questions?

Stay Connected

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