**Energy Storage Innovations Submission Template**

**1: Cover Page**

**PROJECT NAME**

Innovation tagline (e.g., your mission in a few words)

*Keyword tags*

**TEAM**

Names, geographic locations, contact info, and LinkedIn profiles

**PARTNERS**

Key project partners and organizations (if applicable)

### INTRODUCTION VIDEO (Will Be Made Public) (Not Scored)

|  |  |
| --- | --- |
| 0Introduction Video – *What’s your team and innovation in 90 seconds?* | |
| **Suggested Content**   * The energy storage challenge you are solving * Your solution and why it is transformational * Who you are (your organization and key team members) and why you have a competitive edge | **The video is required but not a scored component of the submission.** |

### 

Link to your video

### 2: NARRATIVE

The narrative content should not exceed 3,000 words. Submissions can also include up to five supporting images, figures, or graphs.

|  |  |
| --- | --- |
| **Question 1: What is your storage technology innovation?** | |
| **Suggested Content**   * Provide a thorough **technical** description of your technology with detailed diagrams and schematics as appropriate. * Provide information and performance data from previous simulations, lab-scale tests, or demonstrations. * Include a description of how this technology moves beyond the state-of-the-art and is better than existing solutions. | **Two scores are provided, each on a scale of 1-6.**   * Score #1: The technology description clearly shows how the technology works or is intended to work, including technical feasibility backed up with robust tests/demonstrations/simulations. * Score #2: The technology described is an innovative and compelling solution that moves the energy storage sector beyond the state-of-the-art. |

|  |  |
| --- | --- |
| **Question 2: How does your technology support DOE’s goal for cost-effective long-duration energy storage? [[1]](#footnote-1) What other DOE priorities (e.g., sustainable supply chain, energy equity, enhanced resilience) or innovative storage use cases will your technology meet?** | |
| **Suggested Content**   * Provide a current and 2030 Levelized Cost of Storage (LCOS) estimation. For more information on LCOS calculation, please reference DOE’s ARPA-E LCOS methodology.[[2]](#footnote-2) * Include details about anticipated power ratings and durations for given cost. * Relate LCOS estimations to Long Duration Storage Shot goal.[[3]](#footnote-3) * Provide a clear description of your innovation’s value proposition and other technology benefits and how they align with DOE priorities (sustainable supply chain, providing energy equity, enhancing resilience, etc.) | **Two scores are provided, each on a scale of 1-6.**   * Score #1: Based on included descriptions, calculations and projections, the technology has a pathway to reach the Long Duration Storage Shot goal with feasible and realistic estimates. * Score #2: The technology clearly and robustly benefits DOE priorities such as sustainable supply chain, providing energy equity, enhancing resilience, and others. |

|  |  |
| --- | --- |
| **Question 3: What challenges are associated with the development and deployment of your technology?** | |
| **Suggested Content**   * Provide a list of technical barriers and challenges that additional RD&D is needed to address. * Provide a list of key technology and commercialization risks related to scale-up and further demonstration. | **A single score on a scale of 1-6 is provided, taking the following statements into consideration.**   * A realistic and well-thought-out description of barriers and challenges is provided, including potential solutions and RD&D areas of consideration. * Competitor gives thoughtful consideration to risks related to scale-up and further demonstration. |

|  |  |
| --- | --- |
| **Question 4: How do you plan to further develop or commercialize your technology?** | |
| **Suggested Content**   * Include the RD&D activities needed to further develop this technology. * Highlight how anticipated next steps will build upon progress made so far. * List which types of project partners are needed to continue technology development and demonstration. * Highlight how additional investment would help further technology development. | **A single score on a scale of 1-6 is provided, taking the following statements into consideration**.   * Competitor provides a clear list of future RD&D activities to further develop the technology. * Clear links are established between the current state of the technology and the areas of development needed to reach future goals. * Thorough descriptions of the types of essential project partners is included. * Competitor includes compelling evidence of how additional funding could help progress the development of the technology. |

**Narrative Response**

**Narrative Word Count: \_\_\_\_\_\_\_\_\_\_\_\_ total words**

### 3: Submission Summary Slide (Will Be Made Public)

Make a public-facing, one-slide submission summary that introduces your team and/or organization and mission. There is no template, so competitors are free to present the information in any format. Any text must be readable on a standard printed page and a conference room projection and should be at least 14-pt font.

1. DOE’s target is to reduce the cost of grid-scale energy storage by 90% for systems that deliver 10+ hours of duration within the decade. See this link for more information: <https://www.energy.gov/eere/long-duration-storage-shot> [↑](#footnote-ref-1)
2. https://arpa-e.energy.gov/sites/default/files/documents/files/DAYS\_ProgramOverview\_FINAL.pdf [↑](#footnote-ref-2)
3. See footnote 8 [↑](#footnote-ref-3)