**Project Title:** Continue development of an open-sourced simulation & optimization tool to aid in sizing and placing energy storage elements on a distribution grid.

**Principal Investigator:** <PI Name(s)>

**Total Budget: <**$1,200K over three years with $100K/year going to a university>

**Thrust Area(s):** {Analytics & Regulatory, Demonstrations, Safety & Reliability, Power Electronics, Energy Storage Materials}

**Duration:** FY24-26 (must be 1-3 years)

**Collaborators:** <list collaborators>

1. **Project Description:**

Please answer:

1. What are you trying to do? Articulate your objectives using absolutely no jargon.

<text>

1. Why is the work needed? How is it done today, and what are the limits of current practice? How is this different from and build on your previous work?

<text>

1. What is new in your approach and why do you think it will be successful? Description of the work.

<text>

1. What would be the outcome of the project? What is the commercialization/dissemination plan?

<text>

1. **Project Relevance:**

Please answer: Who cares? If you are successful, what difference will it make? How does this help meet the DOE Office of Electricity Energy Storage program objectives?Why should the federal government invest in this project? Does it meet the clean energy goals of the administration and if so, how?

---------------------------------------------- 2-page limit for above sections --------------------------------------------------

1. **Project Milestones:**

List at least one milestone/deliverable per year, with a GO, NO-GO milestone each year by June 1.

**\*Major Milestone (DOE reported) Expected Completion Date**

Internal Milestone Expected Completion Date

Task 1

Milestone 1.1 00/00/2024

Deliverable 1.1.1 00/00/2024

Deliverable 1.1.2 00/00/2024

Milestone 1.2

Deliverable 1.2.1

Task 2

Milestone 2.1 00/00/2024

Deliverable 2.1.1 00/00/2024

**\*Go/No-Go Milestone** 00/00/2024

DOE Peer Review 00/00/2024

**\*Major Milestone (DOE reported) Expected Completion Date**

Internal Milestone Expected Completion Date

Task 1

Milestone 1.1 00/00/2025

Deliverable 1.1.1 00/00/2025

Deliverable 1.1.2 00/00/2025

Milestone 1.2

Deliverable 1.2.1

Task 2

Milestone 2.1 00/00/2025

Deliverable 2.1.1 00/00/2025

**\*Go/No-Go Milestone** 00/00/2025

DOE Peer Review 00/00/2025

1. **Project Budget**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Year** | **Labor** | **Equipment** | **Contracts** | **Travel** | **Total** |
| **FY24** | $201K | $70K | $114K | $15K | $400K |
| **FY25** | $201K | $70K | $114K | $15K | $400K |
| **FY26** | $201K | $70K | $114K | $15K | $400K |
| **TOTAL** | $603K | $210K | $342K | $45K | $1,200K |

**NOTE: Contracts and equipment purchases are loaded at ~14%, so a $100K contract with a university will cost $114K. In addition, you will only be held to the total annual budget numbers, there is flexibility in moving funds between categories. DOE will only see the high-level numbers.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Year** | **Analytics & Regulatory** | **Demonstrations** | **Power Electronics** | **Safety & Reliability** | **Energy Storage Materials** | **Total** |
| **FY24** | $200K |  | $200K |  |  | $400K |
| **FY25** | $200K |  | $200K |  |  | $400K |
| **FY26** | $200K | $200K |  |  |  | $400K |
| **TOTAL** | $600K | $200K | $400K |  |  | $1,200K |

1. **Prior Commitments**

Please list any prior commitments, e.g., multi-year university contracts

1. **Project PI:**

Brief bio of the PI

Contact information: PI contact information (email and phone)

**Sandia Energy Storage Program Manager:**

Ray Byrne, 505-844-8716, rhbyrne@sandia.gov

**References:**

You need some references

**(NOTE: 2-page hard limit on sections I and II)**